

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CLASS 2 LANDFILL CROSS GENERATING STATION

**by Santee Cooper
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1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2022 Annual Groundwater Monitoring Corrective Action Report for the Class 2 Landfill at the Cross Generating Station (CGS). This 2022 Annual Report was prepared to comply with the United States Environmental Protection Agency Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated April 17, 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

The Class 2 Landfill ceased operations by December 31, 2015, and closure by capping was completed by August 9, 2016, per a plan approved by the South Carolina Department of Health and Environmental Control (SCDHEC). The Class 2 Landfill was certified closed by SCDHEC on February 28, 2017, and is maintained in post-closure care pursuant to SCDHEC regulatory requirements. In addition to the federal CCR rule groundwater monitoring program discussed throughout, an SCDHEC approved groundwater monitoring program is also being implemented to comply with the SCDHEC Post Closure Permit #08337-1601.

In accordance with § 257.90(e)(6), an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit is provided below:

At the start of the current annual reporting period (January 1, 2022), the CGS Class 2 Landfill continued to operate under a corrective action monitoring program in accordance with § 257.98. Statistically significant levels (SSLs) of cobalt in monitoring well POZ-4 were identified for the January/February and June 2022 sampling events.

Previously, statistically significant increases (SSIs) of boron, calcium, chloride, sulfate, and TDS were identified in POZ-4, POZ-6 and POZ-7 during the detection monitoring events in 2017. This triggered an assessment monitoring program which was initiated on January 15, 2018. The statistical analysis of the downgradient wells for the Class 2 Landfill identified a statistically significant level (SSL) of the Appendix IV constituent cobalt in well POZ-4. As a result, an assessment of corrective measures was initiated on January 14, 2019, for this unit. The assessment of corrective measures report was completed on June 12, 2019, and a public meeting was held on December 3, 2019, to discuss five remedial alternatives per § 257.96(e). A remedy was selected pursuant to § 257.97 and the remedy selection report was completed on July 27, 2020. The selected remedy was capping with water management enhancements followed by monitored natural attenuations (MNA). The water enhancements were implemented in 2020.

At the end of the current annual reporting period (December 31, 2022), the CGS Class 2 Landfill remained in the corrective action groundwater monitoring program. Monitoring of the selected remedy will continue in 2023.

To report on the activities conducted during the prior calendar year and document progress complying with the CCR Rule, the specific requirements listed in § 257.90(e)(1) through (5) are provided in the next section in bold/italic type followed by a short narrative stating how that specific requirement was met.

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a) and (c)

All CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under § 257.90 through § 257.98.

Once a groundwater monitoring system and groundwater monitoring program has been established at the CCR unit as required by this subpart, the owner or operator must conduct groundwater monitoring and, if necessary, corrective action through the active life and post-closure care period of the CCR unit.

The capped and closed CGS Class 2 Landfill continues to be subject to the groundwater monitoring and corrective action requirements set forth by the Environmental Protection Agency (EPA) in the Code of Federal Regulations Title 40 (40 CFR) § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR landfill Owner/Operator to prepare an Annual Report.

2.2 40 CFR § 257.90(e) - SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. [...] For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report documents the activities completed in 2022 for the closed CGS Class 2 Landfill as required by the subject regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, as set forth in § 257.98, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

In 2022, the corrective action groundwater monitoring program continued in accordance with § 257.98. An SSL of cobalt in POZ-4 is the only exceedance of an Appendix IV groundwater protection standard (GWPS) downgradient of the Class 2 Landfill. It is worth noting that while the concentrations vary between sampling events, recent concentrations detected are lower than the historical range of concentrations for cobalt in POZ-4. This observation indicates that the selected groundwater remedy is performing as anticipated.

During the 2019 Assessment of Corrective Measures and Nature & Extent evaluations, analytical results from the groundwater monitoring well installed in the uppermost aquifer at the downgradient property boundary (monitoring well CCMLF-1) showed intermittent results above the GWPS for cobalt. While off-site migration had not been confirmed, Santee Cooper notified SCDHEC and nearby residents and/or landowners that the GWPS for cobalt in a property boundary well had been exceeded per § 257.105(h)(8). To evaluate potential for off-site migration and impacts to off-site drinking water supplies, samples were collected from both the single potable well that supplies drinking water for the surrounding closest

residences and from multiple residential taps and analyzed for cobalt. Santee Cooper has continued to monitor this property boundary well in both the uppermost shallow and deeper aquifers and the same nearby residential potable well for cobalt through 2022. **To date, there have been no detections of cobalt (thus below the groundwater protection standard) in the nearby residents' drinking water.** In 2022, cobalt concentrations at all property boundary monitoring wells, including the uppermost aquifer, were below the GWPS. Communication with SCDHEC and the residents has been ongoing.

The remedy selection process, in accordance with § 257.97, began in 2020 following the public meeting held on December 3, 2019, to discuss the remedial alternatives. In accordance with § 257.97(a), a semi-annual progress report was posted to the publicly available website on January 23, 2020, detailing a summary of actions completed to date in selecting and designing the remedy as well as activities planned for the remainder of 2020. The remedy selection report was finalized on July 27, 2020 and posted to the publicly available website. The selected remedial alternative is landfill closure (cap in place) with enhanced water management improvements followed by monitored natural attenuation (MNA).

The landfill was closed by installing a low-permeability geomembrane liner and clay cap and cover along with surface water controls for drainage and erosion protection. The properly engineered and installed geomembrane cap virtually eliminates infiltration of water into the CCR material within the landfill. The enhanced water management improvements refer to capturing water present in the landfill at the time of closure, thereby removing as much of the source material potentially being released from the CCR unit as is feasible. The landfill closure and water management improvements were completed in August 2016 and January 2020, respectively, under the oversight of SCDHEC. The remaining component of the selected remedy is MNA, which is a viable remedial strategy recognized by state and federal regulators that is applicable to inorganic compounds in groundwater. MNA occurs due to naturally occurring processes within the aquifer following source control. Therefore, MNA, in combination with source control, will continue to reduce concentrations of cobalt in groundwater downgradient of the Class 2 Landfill, thereby attaining the GWPS in the future.

Further development of the corrective action groundwater monitoring program for MNA was completed by reevaluating the existing Groundwater Monitoring Plan (GMP). This evaluation concluded that the assessment monitoring protocol currently being implemented is sufficient to meet the needs of corrective action groundwater monitoring program, which is consistent with § 257.98(a)(1)(i) and thus will continue to be implemented during the regularly scheduled semi-annual groundwater monitoring events.

2.2.2 Key Actions Completed

The following key actions were completed in 2022:

- Prepared 2021 Annual Report including:
 - The Annual Report was placed in the facility's operating record pursuant to § 257.105(h)(1);
 - Pursuant to § 257.106(h)(1), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];
 - Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)];
- Collected and analyzed three rounds of groundwater monitoring (January/February, June, and October/November) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the

concentrations in the facility's operating record as required by § 257.95(d)(1) (which is also consistent with § 257.98 (a)(1)). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B.

- Completed statistical evaluations associated with the January/February and June sampling events to determine statistically significant exceedance of GWPS for Appendix IV constituents in accordance with § 257.93(h)(2). Statistical results are summarized in Appendix A.
- Initiated collecting eight independent samples from POZ-3, an existing well which is used for the state landfill permit, to establish a baseline prior to including in the statistical evaluations. POZ-3 will be added to the compliance groundwater monitoring network after collecting eight samples.
- Continued to characterize the nature and extent of Appendix IV constituents identified at statistically significant levels above the GWPS in accordance with § 257.95(g)(1).
 - New groundwater monitoring well CCMLF-2 (installed in December 2021) was first sampled in 2022 to supplement the Corrective Measures Assessment and Nature and Extent investigation to further define the horizontal extent of the plume at an interior, on-site location.
 - Starting in June 2022, an existing groundwater monitoring well, CAP-13, for the state groundwater monitoring program for CGS was added to the groundwater monitoring network and sampled for CCR constituents to supplement the Corrective Measures Assessment and Nature and Extent investigation to define the horizontal extent of the plume at an interior, on-site location. The well installation record for CAP-13 is provided in Appendix C.
- Continued to implement the semiannual Corrective Action Groundwater Monitoring Program consistent with § 257.98(a)(1).
 - Continued monitoring boundary wells for cobalt and continued to collect drinking water samples from a nearby residential potable water well. **Analytical results for these wells continue to show cobalt below the groundwater protection standard.**
 - Continued monitoring surface water in the Bulltown Ditch for cobalt on an annual basis. Analytical results continue to show cobalt is below detection and thus below the groundwater protection standard.
 - Gathered baseline geochemical data, including cations and anions, to be used for the long-term performance monitoring of the attenuation mechanisms contributing to the cobalt concentration reductions in the groundwater.
- Improved the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
 - Revising the groundwater elevation measurement procedure by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample.
 - A South Carolina Certified Well Driller installed piezometers CGSPZ-4 and CGSPZ-5 in November 2022, to improve the elevation dataset to the west of the Class 2 Landfill. Well installation records are provided in Appendix C.
 - The water surface elevations of unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer.
- Evaluated turbidity trends in sitewide wells and identified wells to be redeveloped by a certified well driller to remove buildup of sediment fines on the well screens. Well redevelopment was

- completed in November 2022. Success of redevelopment will be monitored during 2023 sampling events.
- Updated the CGS GMP in December 2022 to make general revisions and improvements to reflect additional monitoring wells and locations and hydrogeology changes due to site construction and impoundment closures.

2.2.3 Problems Encountered

There were multiple laboratory issues encountered in 2022 which contributed to longer than average turnaround time to receive analytical results and variability with the lowest achievable reporting limits. Santee Cooper's internal laboratory, Analytical Services, is certified by the state of South Carolina to run most of the analyses on Appendix III and Appendix IV constituents for groundwater except for mercury and radium 226/228. However, the inductively coupled plasma – mass spectrophotometer (ICP-MS) that analyzes the Appendix IV metals was broken and irreparable at the beginning of 2022. A new ICP-MS was ordered and delivered in April 2022 but was non-operational upon delivery. For the January sampling event, the samples were held at the Analytical Services' lab while repairs were attempted on the instrument. In the meantime, Analytical Services began to analyze the samples on the inductively coupled plasma – optical emission spectroscopy (ICP-OES) but was unable to achieve the appropriate reporting limits because it ran a different analytical method (EPA SW-846 6010D instead of 6020B). When initial repairs were unsuccessful on the ICP-MS, the samples were sent to a third-party laboratory certified by the state of South Carolina (Eurofins Savannah), approximately two and a half months after sample collection. Eurofins Savannah returned the analytical results approximately two weeks after receipt. Upon receipt and review of the analytical results for the January/February sampling event, the non-detect reporting limits for background monitoring well PM-1 (Sample ID #AF24801) were greater than the GWPS for beryllium and thallium. At the time these results were received and validated in May 2022, there was no remaining sample volume for PM-1. Additionally, too much time had passed for a confirmatory resample to be of value. Given the historical data for PM-1 and the fact that the other analytes were below the GWPS for the January and June 2022 results, it was concluded these non-detect values for beryllium and thallium do not represent an exceedance of the GWPS, but additional sampling was warranted so a third sampling event was conducted in November/December 2022.

For the June sampling event, the samples were again held at the Analytical Services' lab while ongoing repairs were attempted on the ICP-MS, which were ultimately unsuccessful. After approximately six weeks, Analytical Services sent the samples to a third-party lab that is certified by the state of South Carolina to analyze Appendix IV metals (Rogers & Callcott) because they had a quicker turnaround time than Eurofins Savannah. Rogers & Callcott was unable to meet the required reporting limit for antimony. The remaining sample volumes were returned to Santee Cooper. Upon receipt, Analytical Services sent the samples to Eurofins Savannah. The lowest achievable reporting limits are variable due to utilizing different laboratories, however all non-detect reporting limits were below the required GWPS for the June samples.

2.2.4 Actions to Resolve Problems

Santee Cooper's new ICP-MS instrument that was never operational was returned to the vendor in November 2022. A new ICP-MS from a different vendor was purchased in November 2022. If the new instrument is not available for 2023 sampling events, then external laboratories that were able to reach reporting limits for 2022 will be used.

Given the non-detect reporting limit exceedances of GWPS and higher than historical reporting limits in the background well during the January/February 2022 sampling event, a third sampling event was conducted for the Class 2 Landfill in October 2022. This third dataset ensured there were at least two datasets that met all required reporting limits for the 2022 calendar year. This will prevent inflating statistical background limits when the tolerance limits for PM-1 are updated in 2023 in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (Unified Guidance)*.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2023 include the following:

- Prepare the 2022 annual report; place it in the record as required by § 257.105(h)(1), notify the Relevant State Director [§ 257.106(d)]; and post to the facility's publicly available CCR website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring consistent with § 257.98(a)(1) and § 257.95(d)(1) and in accordance with the CGS GMP.
- Continue to collect independent samples on a bimonthly basis for POZ-3 to establish a statistically representative dataset. POZ-3 will be added to the compliance groundwater monitoring network after collecting eight samples.
- Update the statistical upper tolerance limits for background wells PM-1 and CBW-1 in accordance with the Unified Guidance.
- Conduct statistical analyses of semi-annual groundwater monitoring analytical results of the CCR compliance wells, including the October/November 2022 sampling event, to determine if SSLs of the detected Appendix IV constituents are present.
- Use the existing groundwater fate and transport model as needed to compare cobalt concentrations in groundwater monitoring wells POZ-4 and POZ-6 against modeled values post-closure. Re-calibrate or enhance the model as needed to support MNA studies.
- Conduct additional nature and extent activities, including possible installation of additional monitoring well(s):
 - Continue monitoring the property boundary wells in the uppermost and deeper aquifers on a semi-annual basis.
 - Continue annual monitoring of the nearby residential potable water well.
 - Continue surface water monitoring of the Bulltown Ditch.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
 - Increasing the sitewide synoptic water level measurements from two (2) to four (4) times per year (on a quarterly basis and in conjunction with the semi-annual groundwater monitoring events).
 - Continue collecting surface water elevations from unlined ponds, also on the same quarterly basis as the sitewide synoptic water level measurements.

2.3 40 CFR § 257.90(e) - INFORMATION

At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

2.3.1 40 CFR § 257.90(e)(1)

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

As required by § 257.90(e)(1), a map showing the locations of the CCR unit and associated upgradient and downgradient monitoring wells for the Class 2 Landfill is presented as Figure 1.

2.3.2 40 CFR § 257.90(e)(2)

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

An existing well that is part of the state NPDES groundwater monitoring network, CAP-13, was sampled to supplement the Nature & Extent investigation and will not be considered a compliance monitoring well. This well was installed in the uppermost aquifer in an area east of both the Class 2 and Class 3 Landfill.

Existing well, POZ-3, which is part of the state landfill groundwater monitoring network, is being sampled on a bimonthly basis to establish a statistically representative dataset. This well will become part of the compliance monitoring network for the Class 2 Landfill once eight independent samples are collected and analyzed. This well was installed on the western waste boundary of the Class 2 Landfill and has been determined by a professional geologist to be adequate to monitor the uppermost aquifer. Potentiometric surface interpretations in 2021 and 2022 indicate this well is sometimes downgradient and sometimes side-gradient of the Class 2 Landfill. This will add some more information between monitoring wells POZ-6 and POZ-7 which currently do not have any SSLs of Appendix IV constituents above the GWPS.

Two piezometers, CGSPZ-4 and CGSPZ-5 were installed in an area to the west of the Class 2 Landfill in November 2022 by a South Carolina certified well driller. This will improve characterizing the groundwater potentiometric surface given current site conditions that could impact groundwater flow direction. The original monitoring network for the Class 2 Landfill was developed based on a hydrogeologic characterization completed in 2011 to permit the Class 3 Landfill.

No wells were decommissioned in 2022.

2.3.3 40 CFR § 257.90(e)(3)

In addition to all the monitoring data obtained under § 257.90 through § 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

In accordance with § 257.95(b) and § 257.95(d)(1), at least two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection, and monitoring data obtained for the groundwater monitoring program for the Class 2 Landfill is presented in Table 1 of this report. In addition, as required by § 257.95(d)(3), Table 1 includes the GWPS established under § 257.95(d)(2).

Laboratory analytical data reports, along with field sampling forms, are provided in Appendix B to this report. A third sampling event was conducted in October 2022 for the reasons previously outlined. Although the results were returned from the certified laboratories and validated prior to December 31, 2022, the statistical evaluations were not completed in 2022. Results from the corresponding statistical evaluations will be completed and included in the 2023 Annual Groundwater Monitoring and Corrective Action Report.

2.3.4 40 CFR § 257.90(e)(4)

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and

The groundwater monitoring program remained in corrective action monitoring for the duration of 2022. A summary of the history of the evolution of the monitoring programs is provided in this section.

As required by § 257.93(h) a statistical analysis of the Appendix III constituents was completed January 15, 2018. Baseline analytical data collected from background monitoring wells CBW-1 and PM-1 were combined to develop Upper Tolerance Limits (UTLs). The UTLs for each Appendix III constituent were compared to the analytical results for the downgradient monitoring wells POZ-4, POZ-6, and POZ-7. Constituents with analytical results exceeding the UTLs were identified as SSIs over background for the respective Appendix III constituent. Per § 257.94(h) an Assessment Monitoring program was initiated on February 14, 2018. As required by § 257.93(h)(2), the subsequent statistical evaluation of the detected Appendix IV constituents identified SSLs, specifically cobalt, above GWPS. Therefore, per §257.95(g)(3), an assessment of corrective measures and nature and extent evaluation was initiated to evaluate the horizontal and vertical nature and extent of the SSLs downgradient of the CGS Class 2 Landfill.

The statistical analysis of Appendix IV constituents was conducted within 90-days of completing each semiannual sampling and analysis event in 2022 and it was determined that a SSL of cobalt continues to be present downgradient of the Class 2 Landfill in POZ-4 only. The October/November 2022 sampling event will be statistically evaluated in the first quarter 2023. There is no maximum contaminant level (MCL) for cobalt and elevated levels of cobalt were not identified in the background wells, therefore, the GWPS for cobalt is set at the regional screening level (RSL). The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the monitoring events of 2022 were compared to their respective background UTLs and GWPS (Appendix A). A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. During sampling events in January/February and June 2022, an SSL above GWPS was identified at the Class 2 Landfill in monitoring well POZ-4 for cobalt, consistent with previous results.

Further development of the corrective action groundwater monitoring program was completed by reevaluating the existing CGS GMP. It was determined that the current assessment monitoring plan being implemented is sufficient to meet the post-closure monitoring needs to continue to evaluate the performance of the selected remedy and thus will continue to be implemented during the regularly scheduled semi-annual groundwater monitoring events. This is consistent with § 257.98(a)(1)(i).

2.3.5 40 CFR § 257.90(e)(5)

Other information required to be included in the annual report as specified in § 257.90 through § 257.98.

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.98 of the Rule.

Additionally, an overview of the performance of the remedy implementation to date is provided. The landfill closure and water management improvements were completed in August 2016 and January 2020, respectively, under the oversight of SCDHEC. The enhanced water management improvements refer to capturing water present in the landfill at the time of closure, therefore removing as much of the source material potentially being released from the CCR unit as is feasible. To account for any water draining through the toe drains, an improvement consisting of installing a seepage collection system including discharge piping and lift stations. The water captured from the toe drains is fully isolated from stormwater and is redirected to the operational Class 3 Landfill Leachate Collection Pond before further treatment in the station's permitted wastewater treatment facility prior to discharge under NPDES permit #SC0037401.

Since the completion of the water management improvements, the uppermost shallow aquifer boundary well (CCMLF-1) has shown marked decreases in cobalt concentrations from 17.8 ug/L to 4.75 ug/L. The sampling results from both 2022 sampling events remained below the GWPS of 6 ug/L. The adjacent deeper aquifer boundary well (CCMLF-1D) has consistently been below the GWPS since monitoring of the property boundary began with the initial nature & extent activities in 2019. These property boundary wells will continue to be monitored closely in 2023. The decline in cobalt concentrations observed in the shallow aquifer boundary well CCLMF-1 indicates that the cobalt plume is contracting, and that natural attenuation is being effective in reducing cobalt concentrations in groundwater.

The only remaining monitoring well with a statistically significant level of cobalt is POZ-4. This well is located on the northeastern boundary of the CCR unit. While the concentrations have increased from 24.9 ug/L to 109 ug/L over the course of the 2022 sampling events, these concentrations are considerably lower than the historical range. Additionally, it is not unusual to observe a temporary spike during the summer sampling events. These seasonal fluctuations do not necessarily suggest continuing releases from the Class 2 Landfill. This well will be monitored closely during ongoing corrective action sampling activities in 2023.

To further define the Nature & Extent investigation in this area, two shallow groundwater monitoring wells were added to the groundwater sampling network, CCMLF-2 and CAP-13. CCMLF-2, installed in December 2021 and included in the 2021 Annual Report, was first sampled in 2022. And CAP-13 is an existing well for the state NPDES permit for Cross Generating Station. The results for cobalt in both wells were below the GWPS. Well construction diagrams are included in Appendix C.

Finally, the potentiometric surface characterization of the uppermost aquifer was improved by collecting site-wide synoptic water levels, installing new piezometers (details in previous sections), and collecting water elevations in unlined ponds. The groundwater elevation measurement procedure was improved by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample. Additionally, the water surface elevations of unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is

appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer. Groundwater flow rate and direction are provided as Figures 2 and 3 for each sampling event as specified in § 257.93(c).

TABLES

TABLE 1 - Summary of Analytical Results

Cross Generating Station Class 2 Landfill Corrective Action Monitoring 2022

Notes: 1. All groundwater samples collected from the monitoring wells were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Eurofins Savannah (Certification # 98001), Rogers & Calicot, Inc. (Certification # 23105001), and Pace Analytical Services LLC (Certification #99030).

2. All Background, Corrective Measures Assessment/Nature & Extent, & Corrective Action compliance wells have been sampled to meet \$ 257.95 and \$ 257.98.

3. Due to challenges with laboratory delays, all groundwater samples were not analyzed by a single laboratory. This accounts for the majority of the reporting limit variability. Matrix interference also contributed to variable RLs.

4. Depth to groundwater is measured below the top of the casing (btoc) to the water surface. Elevation is shown relative to mean sea level(msl).

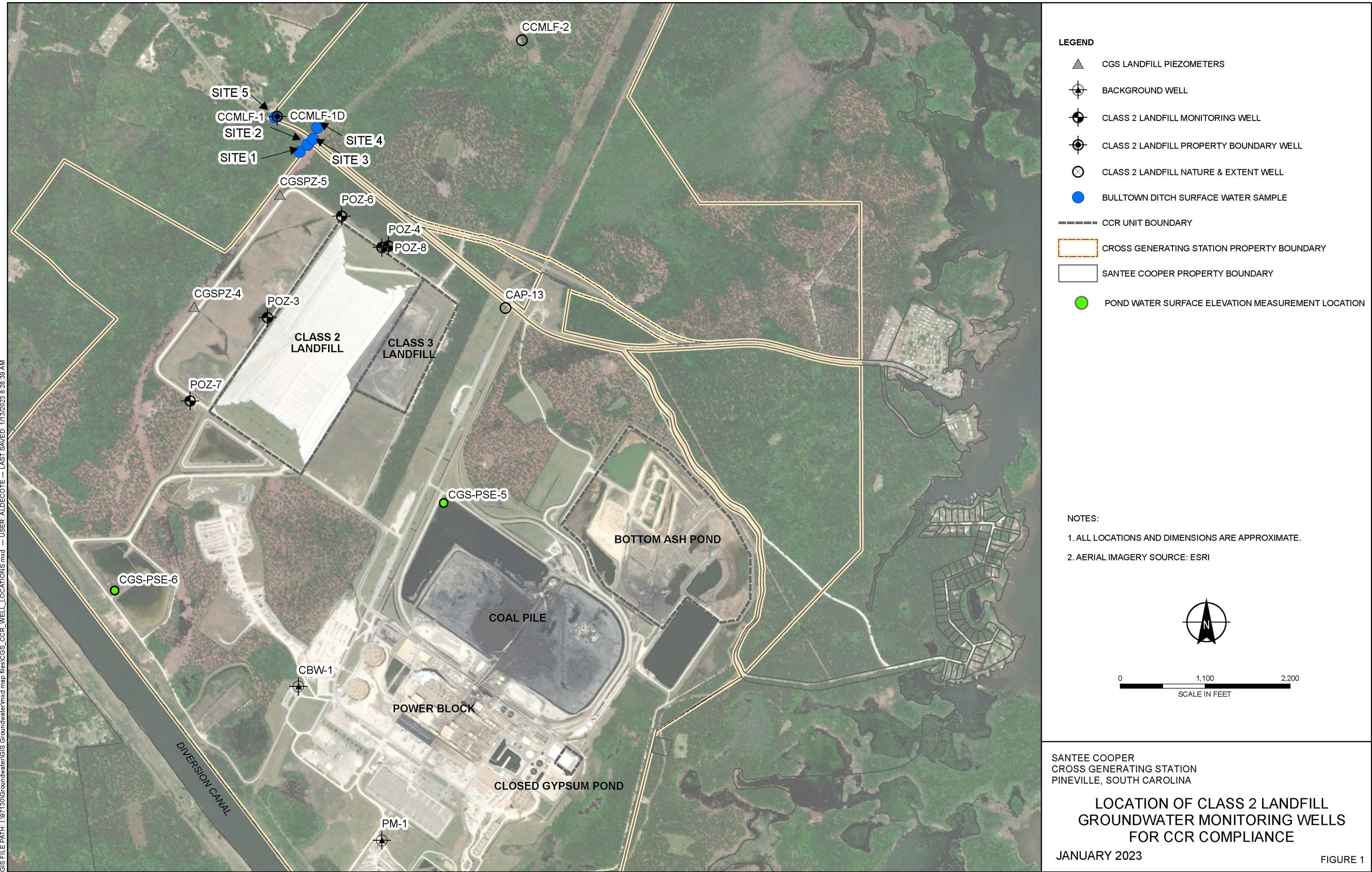
Table 2
Cross Generating Station
2022 Synoptic Water Levels for Groundwater Monitoring Wells

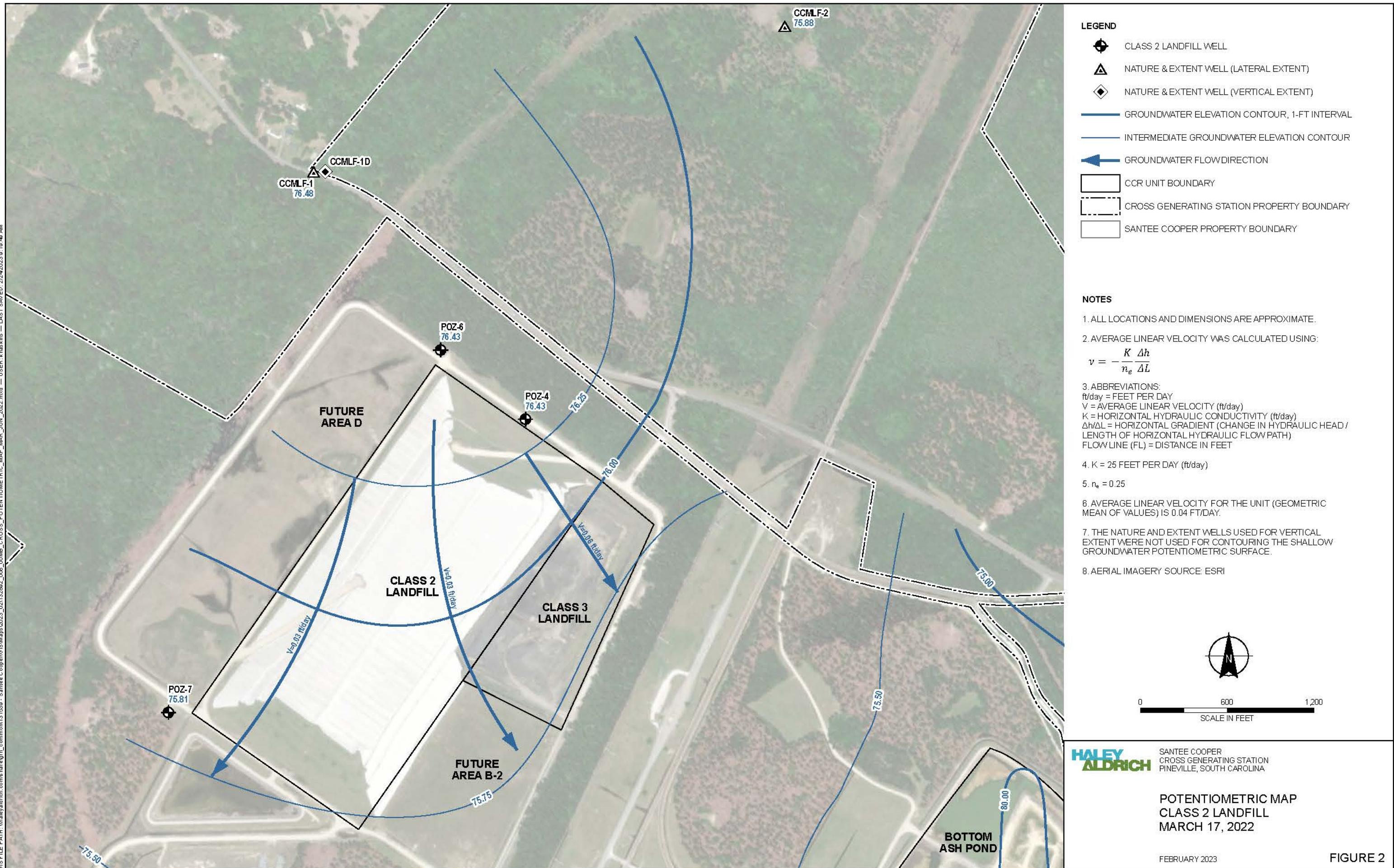
Well Name	1st Event				2nd Event				3rd Event			
	Collection Date	Depth to Groundwater (ft btoc) ²	Top of Casing Elevation (ft msl) ²	GW Elevation (ft msl) ²	Collection Date	Depth to Groundwater (ft btoc) ²	Top of Casing Elevation (ft msl) ²	GW Elevation (ft msl) ²	Collection Date	Depth to Groundwater (ft btoc) ²	Top of Casing Elevation (ft msl) ²	GW Elevation (ft msl) ²
PM-1	3/17/2022	8.53	83.24	74.71	6/20/2022	9.00	83.24	74.24	10/24/2022	8.19	83.24	75.05
CBW-1	3/17/2022	10.44	85.80	75.36	6/20/2022	11.60	85.80	74.20	10/24/2022	9.89	85.80	75.91
CAP-1	3/17/2022	8.24	82.70	74.46	6/20/2022	7.56	82.70	75.14	10/24/2022	6.46	82.70	76.24
CAP-2 ¹	3/17/2022	16.39	91.85	75.46	6/20/2022	17.40	91.85	74.45	10/24/2022	15.72	91.85	76.13
CAP-3	3/17/2022	16.08	91.49	75.41	6/20/2022	17.19	91.49	74.30	10/24/2022	15.44	91.49	76.05
CAP-4	3/17/2022	16.57	91.77	75.20	6/20/2022	17.79	91.77	73.98	10/24/2022	15.94	91.77	75.83
CAP-5	3/17/2022	16.61	91.78	75.17	6/20/2022	18.11	91.78	73.67	10/24/2022	15.46	91.78	76.32
CAP-6	3/17/2022	16.91	91.82	74.91	6/20/2022	18.47	91.82	73.35	10/24/2022	15.94	91.82	75.88
CAP-7	3/17/2022	16.18	91.64	75.46	6/20/2022	17.97	91.64	73.67	10/24/2022	15.39	91.64	76.25
CAP-8	3/17/2022	17.44	91.61	74.17	6/20/2022	18.67	91.61	72.94	10/24/2022	16.91	91.61	74.70
CAP-9	3/17/2022	15.88	91.59	75.71	6/20/2022	18.60	91.59	72.99	10/24/2022	14.61	91.59	76.98
CAP-10	3/17/2022	21.61	95.68	74.07	6/20/2022	22.68	95.68	73.00	10/24/2022	21.29	95.68	74.39
CAP-11 ¹	3/17/2022	19.21	95.55	76.34	6/20/2022	20.54	95.55	75.01	10/24/2022	18.77	95.55	76.78
CAP-12 ¹	3/17/2022	23.33	98.33	75.00	6/20/2022	24.32	98.33	74.01	10/24/2022	23.01	98.33	75.32
CAP-13	3/17/2022	5.49	80.77	75.28	6/20/2022	8.25	80.77	72.52	10/24/2022	8.33	80.77	72.44
CAP-14 ¹	3/17/2022	5.15	80.77	75.62	6/20/2022	8.43	80.77	72.34	10/24/2022	5.27	80.77	75.50
CCMLF-1	3/17/2022	4.38	80.86	76.48	6/20/2022	8.58	80.86	72.28	10/24/2022	5.02	80.86	75.84
CCMLF-1D	3/17/2022	4.26	80.65	76.39	6/20/2022	8.42	80.65	72.23	10/24/2022	4.76	80.65	75.89
CCMLF-2	3/17/2022	8.20	84.08	75.88	6/20/2022	12.77	84.08	71.31	10/24/2022	8.67	84.08	75.41
POZ-3	3/17/2022	6.26	82.61	76.35	6/20/2022	8.70	82.61	73.91	10/24/2022	6.03	82.61	76.58
POZ-4	3/17/2022	6.30	82.73	76.43	6/20/2022	9.35	82.73	73.38	10/24/2022	6.11	82.73	76.62
POZ-5D ¹	3/17/2022	6.45	82.49	76.04	6/20/2022	9.53	82.49	72.96	10/24/2022	6.31	82.49	76.18
POZ-6	3/17/2022	7.41	83.94	76.43	6/20/2022	10.95	83.94	72.89	10/24/2022	7.55	83.94	76.29
POZ-7	3/17/2022	6.21	82.02	75.81	6/20/2022	7.94	82.02	74.08	10/24/2022	5.70	82.02	76.32
POZ-8	3/17/2022	7.05	83.13	76.08	6/20/2022	10.10	83.13	73.03	10/24/2022	6.90	83.13	76.23
CLF1B-1	3/17/2022	8.03	83.76	75.73	6/20/2022	9.34	83.76	74.42	10/24/2022	7.34	83.76	76.42
CLF1B-2	3/17/2022	6.33	82.04	75.71	6/20/2022	7.95	82.04	74.09	10/24/2022	5.79	82.04	76.25
CLF1B-3	3/17/2022	7.06	82.75	75.69	6/20/2022	8.92	82.75	73.83	10/24/2022	6.53	82.75	76.22
CLF1B-4	3/17/2022	7.01	82.74	75.73	6/20/2022	9.45	82.74	73.29	10/24/2022	6.57	82.74	76.17
CLF1B-5	3/17/2022	5.28	81.09	75.81	6/20/2022	8.17	81.09	72.92	10/24/2022	5.07	81.09	76.02
CLF1B-5D	3/17/2022	5.39	80.93	75.54	6/20/2022	8.51	80.93	72.42	10/24/2022	5.27	80.93	75.66
CCMAP-1	3/17/2022	6.31	80.21	73.90	6/20/2022	7.95	80.21	72.26	10/24/2022	5.64	80.21	74.57
CCMAP-2	3/17/2022	7.88	81.24	73.36	6/20/2022	8.40	81.24	72.84	10/24/2022	7.76	81.24	73.48
CCMAP-3	3/17/2022	7.74	81.91	74.17	6/20/2022	9.00	81.91	72.91	10/24/2022	7.24	81.91	74.67
CCMAP-4	3/17/2022	6.60	81.83	75.23	6/20/2022	8.12	81.83	73.71	10/24/2022	5.41	81.83	76.42
CCMAP-5	3/17/2022	8.16	83.71	75.55	6/20/2022	9.88	83.71	73.83	10/24/2022	7.29	83.71	76.42
CCMAP-6	3/17/2022	9.62	84.41	74.79	6/20/2022	12.20	84.41	72.21	10/24/2022	8.96	84.41	75.45
CCMAP-7	3/17/2022	8.14	81.57	73.43	6/20/2022	8.55	81.57	73.02	10/24/2022	8.01	81.57	73.56
CCMAP-8 ⁴	-	-	-	-	-	-	-	-	10/24/2022	7.38	82.89	75.51
CGYP-1	3/17/2022	17.02	91.89	74.87	6/20/2022	17.71	91.89	74.18	10/24/2022	16.68	91.89	75.21
CGYP-2	3/17/2022	10.88	84.88	74.00	6/20/2022	10.68	84.88	74.20	10/24/2022	9.46	84.88	75.42
CGYP-3	3/17/2022	8.56	83.95	75.39	6/20/2022	9.50	83.95	74.45	10/24/2022	8.27	83.95	75.68
CGYP-4	3/17/2022	7.76	83.49	75.73	6/20/2022	7.28	83.49	76.21	10/24/2022	7.51	83.49	75.98
CGYP-5 ³	-	-	-	-	6/20/2022	7.94	84.12	76.18	10/24/2022	8.12	84.12	76.00
CGYP-6	3/17/2022	8.31	82.23	73.92	6/20/2022	8.88	82.23	73.35	10/24/2022	7.95	82.23	74.28
CGYP-7 ⁴	-	-	-	-	-	-	-	-	10/24/2022	10.03	85.37	75.34
PSE-1 ⁵	3/3/2022	-	-	75.00	6/20/2022	-	-	74.63	10/24/2022	-	-	74.86
PSE-2 ⁵	3/3/2022	-	-	79.99	6/20/2022	-	-	81.52	10/24/2022	-	-	82.34
PSE-3 ⁵	3/3/2022	-	-	81.83	6/20/2022	-	-	81.47	10/24/2022	-	-	83.11
PSE-4 ⁵	3/3/2022	-	-	82.43	6/20/2022	-	-	82.19	10/24/2022	-	-	83.35
PSE-5 ⁵	3/3/2022	-	-	76.77	6/20/2022	-	-	76.62	10/24/2022	-	-	76.37
PSE-6 ⁵	3/3/2022	-	-	74.54	6/20/2022	-	-	74.43	10/24/2022	-	-	74.56

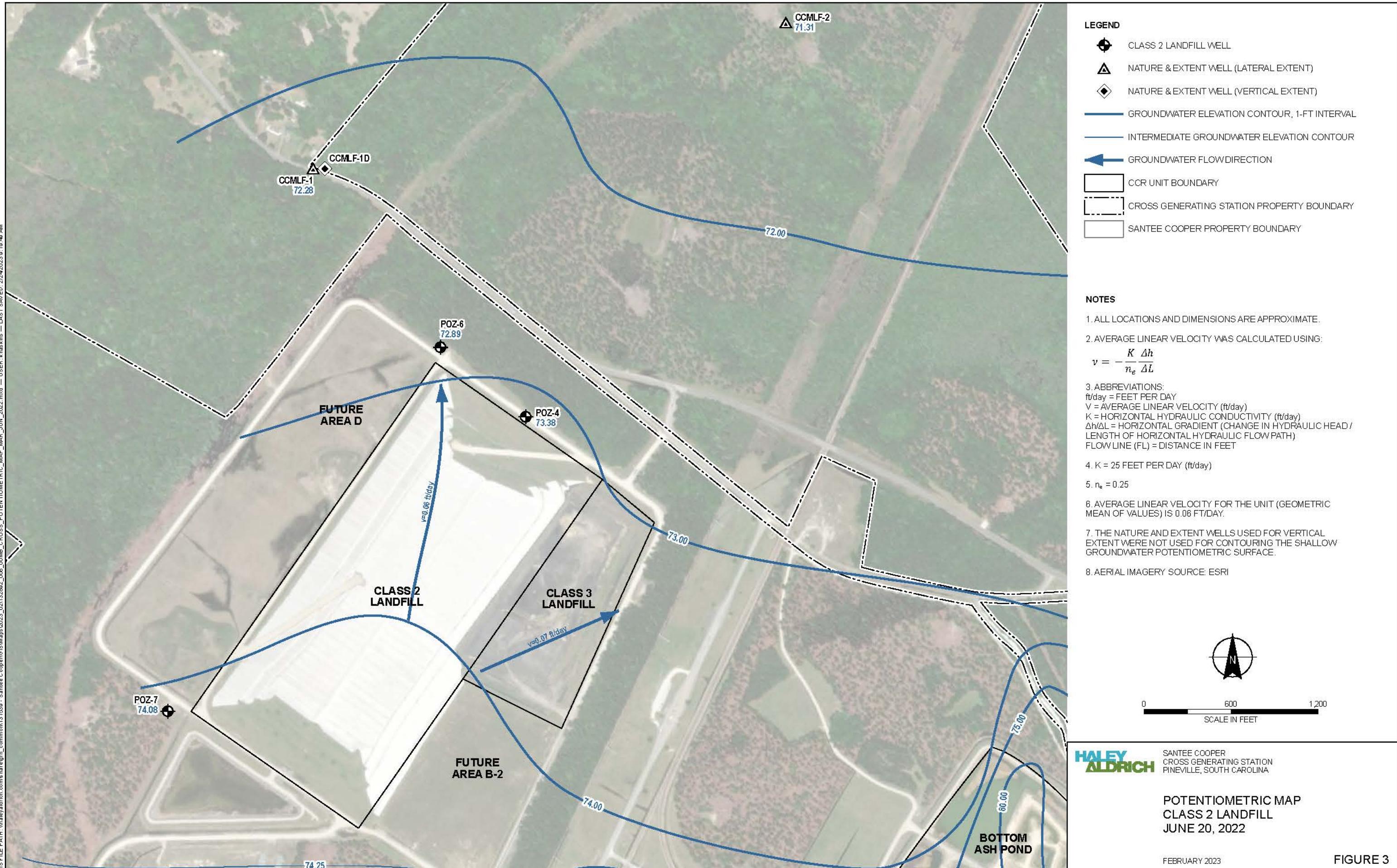
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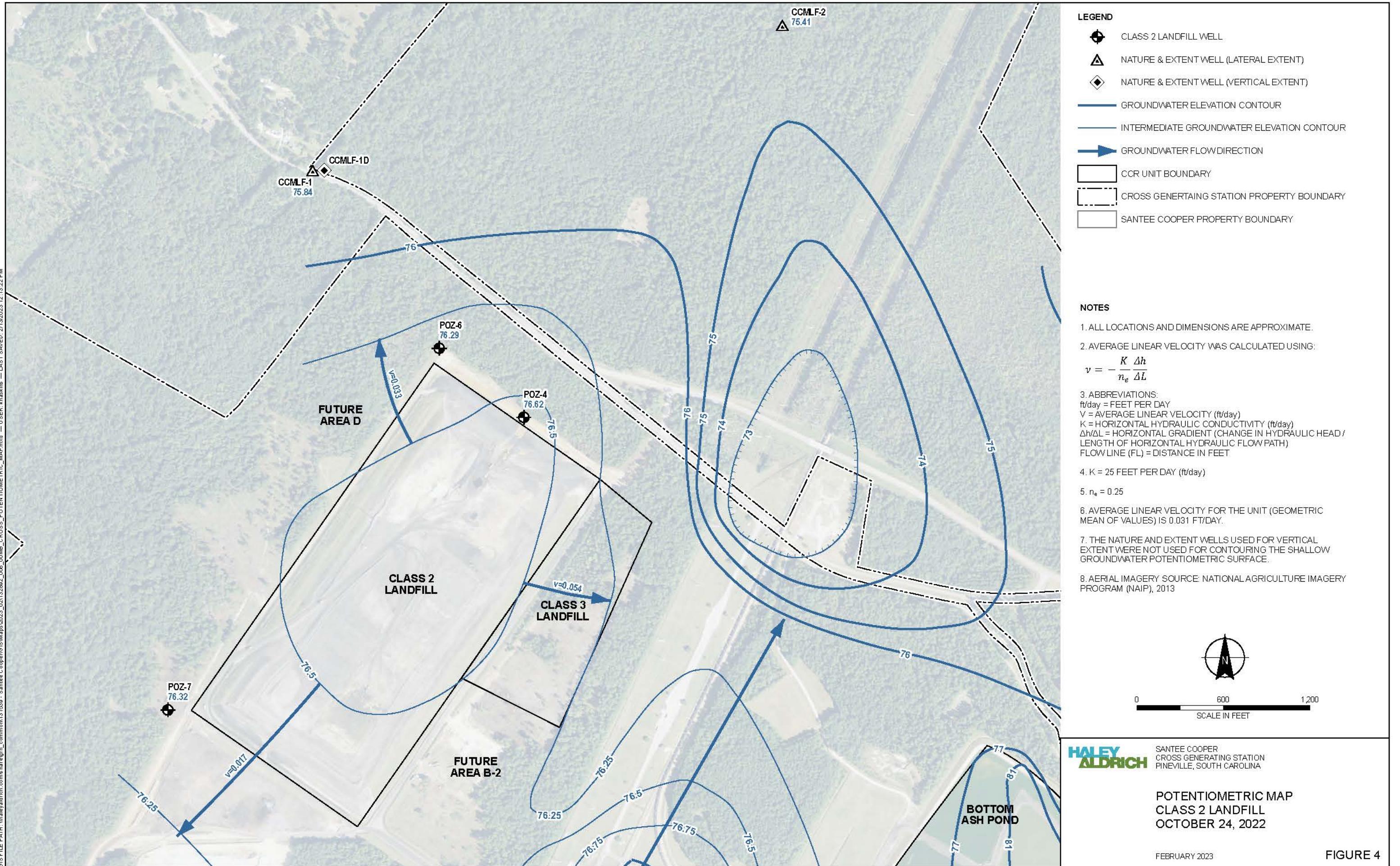
1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SC DHEC Industrial Wastewater Permit #SC0037401 and are not used for CCR constituent concentrations.
2. Depth to Groundwater is measured below the top of the casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to mean sea level (msl).
3. Per the 2021 CCR Annual Report, CGYP-5 was no longer sampled for CCR GW constituents. Beginning in June 2022, water level data was collected for potentiometric surface interpretation.
4. Wells were installed between the 2nd and 3rd events.
5. Pond surface elevations (PSE) were collected to aid in the potentiometric surface interpretation.

FIGURES









Appendix A – Statistical Analysis



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TECHNICAL MEMORANDUM

July 8, 2022
File No. 132892-011

SUBJECT: Statistical Evaluation of the January 2022 Semi-annual Groundwater Assessment Monitoring Data, Cross Generating Station, Class 2 Landfill

The South Carolina Public Service Authority (Santee Cooper) has implemented the 17 April 2015 U.S. Environmental Protection Agency (U.S. EPA) Federal Coal Combustion Residuals (CCR) Rule (40 CFR § 257) for the Cross Generating Station, located in Berkeley County, South Carolina. Pursuant to § 257.93 and § 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the January 2022 semi-annual assessment groundwater monitoring event for the Cross Generating Station (CGS) Class 2 Landfill. The statistical evaluation discussed in this memorandum was conducted to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at statistically significant levels (SSL) above Groundwater Protection Standards (GWPS) consistent with the requirements in 40 CFR § 257.95.

The data for the January 2022 groundwater sampling event were validated on May 12, 2022 by Santee Cooper and provided to Haley & Aldrich on May 26, 2022 for statistical analysis. The downgradient monitoring wells were compared to the GWPS established from the background monitoring wells (PM-1 and CBW-1) dataset for detected Appendix IV constituents. GWPS for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level (MCL), regional screening level (RSL), or site background concentration. The results of the assessment monitoring statistical evaluation are discussed below and provided in Table I.

Statistical Evaluation of Appendix IV Constituents

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a CCR unit (§257.93(f) (1-4)). The statistical method used for these evaluations is tolerance limit (TL), which was certified by Haley & Aldrich, Inc. on October 14, 2017. The TL method, determined applicable for this sampling event, is used to evaluate potential SSLs above GWPS. GWPS for each constituent listed in Appendix IV were computed as upper tolerance limits (UTL), with a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling result from each compliance well was compared to the GWPS to determine if an SSL existed.

STATISTICAL EVALUATION

An interwell statistical evaluation was used to identify SSLs. An interwell evaluation compares the most recent values from downgradient compliance wells to a background dataset composed of upgradient

well data. Because the CCR unit is in assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) constituents.

The TL method was used to complete statistical evaluations of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or data normalized via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

These statistical evaluations were conducted using the background dataset for all detected Appendix IV constituents using TLs. If an Appendix IV constituent concentration from the semi-annual sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate if an SSL was indicated. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat software after testing for outlier sample results that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using box plots and distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample locations (PM-1 and CBW-1) were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset was evaluated to determine the method for UTL calculation. Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (Unified Guidance)*, interwell background limits are updated once every two years when there are a minimum of four new valid data points collected. Reporting limits for some constituents at PM-1 were elevated compared to historical data in the January 2022 sampling event dataset. Therefore, the update to the background concentrations will be completed in March 2023 after the January 2023 sampling event, in accordance with the Unified Guidance.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the January 2022 assessment monitoring event were compared to their respective GWPS (Table I). A sample concentration greater than the GWPS is considered to represent a SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. Based on this statistical evaluation an SSL above GWPS remains at the Class 2 Landfill for cobalt at POZ-4. While an SSL for cobalt was identified in POZ-4, the concentrations detected are significantly lower than the values recorded during assessment monitoring in 2019 prior to implementing the selected remedy in January 2020 (capping with water management enhancements plus monitored natural attenuation). All other wells meet the GWPS, including POZ-6 which did not meet the GWPS prior to implementation of the selected remedy. These results track with the cobalt groundwater flow and fate and transport modeling results.

The performance of the selected remedy in achieving GWPS will continue to be evaluated during subsequent semiannual sampling events.

Tables: Table I – Summary of Assessment Monitoring Statistical Evaluation – January 2022

TABLES

Cross Class 2 Landfill

Detection Monitoring Statistical Analysis Summary

January 2022 Groundwater Monitoring Event

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	January 2022 Concentrations	Detect?	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Upper Tolerance Limit)	SSL
CCR Appendix-IV: Antimony, Total (mg/L)																									
CBW-1	0/16	100%	0.005-0.025	0.00625	0.005	0.01	0.000025	0.005	0.8	0.006	mg/L	N	0	1	NA	NA	NA	NA	NA	NA	0.025	0.025	0.025	0.025	
PM-1	0/16	100%	0.005-0.025	0.00656	0.005	0.01375	0.00002573	0.005072	0.7729	0.006	mg/L	N	0	2	NA	NA	NA	NA	NA	NA	0.025	0.025	0.025	0.025	
POZ-4	0/14	100%	0.005-0.025	0.00643	0.005	0.012	0.00002857	0.005345	0.8315	0.006	mg/L	N	0	1	NA	NA	NA	NA	NA	0.005	N	N	N	FALSE	
POZ-6	0/14	100%	0.005-0.025	0.00643	0.005	0.012	0.00002857	0.005345	0.8315	0.006	mg/L	N	0	1	NA	NA	NA	NA	NA	0.005	N	N	N	FALSE	
POZ-7	0/14	100%	0.005-0.025	0.00643	0.005	0.012	0.00002857	0.005345	0.8315	0.006	mg/L	N	0	1	NA	NA	NA	NA	NA	0.005	N	N	N	FALSE	
CCR Appendix-IV: Arsenic, Total (mg/L)																									
CBW-1	3/18	83%	0.003-0.005	0.00561	0.005	0.008095	0.016	0.00001731	0.00267	0.4756	0.01	mg/L	Y	1	0	Yes	No	NA	Non-parametric	0.016	0.016	0.016	0.016	0.016	
PM-1	2/18	89%	0.005-0.01	0.00515	0.005	0.00575	0.0042	0.00001617	0.001272	0.2469	0.01	mg/L	N	0	0	NA	NA	NA	Non-parametric	0.016	0.016	0.016	0.016	0.016	
POZ-4	1/17	94%	0.003-0.005	0.00465	0.005	0.005	0.0031	5.976E-07	0.0007731	0.1661	0.01	mg/L	N	0	0	NA	NA	NA	0.003	N	N	N	N	FALSE	
POZ-6	1/17	94%	0.003-0.005	0.0047	0.005	0.005	0.0039	0.00000048	0.0006928	0.1474	0.01	mg/L	N	0	0	NA	NA	NA	0.003	N	N	N	N	FALSE	
POZ-7	0/17	100%	0.003-0.005	0.00465	0.005	0.005	6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	0.003	N	N	N	N	FALSE		
CCR Appendix-IV: Barium, Total (mg/L)																									
CBW-1	18/18	0%	-	0.0437	0.0429	0.04936	0.061	0.00002415	0.004914	0.1124	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.103	2.000	2.000	2.000	2.000	
PM-1	18/18	0%	-	0.0826	0.081	0.105	0.103	0.00007523	0.008674	0.105	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.103	2.000	2.000	2.000	2.000	
POZ-4	17/17	0%	-	0.117	0.102	0.2014	0.255	0.002569	0.05068	0.4314	2	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	0.119	Y	Y	Y	FALSE	
POZ-6	17/17	0%	-	0.0526	0.0495	0.0712	0.1	0.0001989	0.0141	0.2683	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.050	Y	Y	Y	FALSE	
POZ-7	17/17	0%	-	0.241	0.25	0.3202	0.389	0.004914	0.0701	0.2914	2	mg/L	N	0	0	No	No	Stable	Normal	0.128	Y	Y	Y	FALSE	
CCR Appendix-IV: Beryllium, Total (mg/L)																									
CBW-1	1/17	94%	0.0005-0.0005	0.000508	0.0005	0.000526	0.00063	9.941E-10	0.00003153	0.06211	0.004	mg/L	N	0	0	NA	NA	NA	Non-parametric	0.00063	0.004	0.004	0.004	0.004	
PM-1	0/18	100%	0.0005-0.005	0.00075	0.0005	0.001175	0.000001125	0.001061	1.414	0.004	mg/L	N	0	1	NA	NA	NA	Non-parametric	0.00063	0.004	0.004	0.004	0.004		
POZ-4	9/16	44%	0.0005-0.0005	0.000666	0.000511	0.001172	0.00139	7.686E-08	0.0002772	0.4164	0.004	mg/L	N	0	0	No	No	Decreasing	Non-parametric	0.0005	N	N	N	N	FALSE
POZ-6	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005	0.0005	0	0	0.004	mg/L	N	0	0	NA	NA	NA	0.0005	N	N	N	N	FALSE		
POZ-7	11/16	31%	0.0005-0.0005	0.000657	0.00063	0.000912	0.000935	2.545E-08	0.0001595	0.2427	0.004	mg/L	N	0	0	No	No	Stable	Normal	0.0005	Y	Y	Y	Y	FALSE
CCR Appendix-IV: Cadmium, Total (mg/L)																									
CBW-1	0/17	100%	0.0005-0.0005	0.000765	0.0005	0.0014	0.000001191	0.001091	1.427	0.005	mg/L	N	0	0	NA	NA	NA	Non-parametric	0.0005	0.005	0.005	0.005	0.005		
PM-1	0/17	100%	0.0005-0.005	0.000765	0.0005	0.0014	0.000001191	0.001091	1.427	0.005	mg/L	N	0	0	NA	NA	NA	Non-parametric	0.0005	0.005	0.005	0.005	0.005		
POZ-4	2/17	88%	0.0005-0.0005	0.000524	0.0005	0.000642	0.00081	6.013E-09	0.00007755	0.148	0.005	mg/L	N	0	0	NA	NA	NA	0.005	N	N	N	N	FALSE	
POZ-6	0/17	100%	0.0005-0.0005	0.0005	0.0005	0.0005	0.0005	0	0	0.005	mg/L	N	0	0	NA	NA	NA	0.005	N	N	N	N	FALSE		
POZ-7	1/17	94%	0.0005-0.0005	0.000506	0.0005	0.00052	0.0006	5.882E-10	0.00002425	0.04794	0.005	mg/L	N	0	0	NA	NA	NA	0.005	N	N	N	N	FALSE	
CCR Appendix-IV: Chromium, Total (mg/L)																									
CBW-1	1/17	94%	0.005-0.005	0.00553	0.005	0.0068	0.014	0.00004765	0.002183	0.3948	0.1	mg/L	N	0	0	NA	NA	NA	Non-parametric	0.0140	0.100	0.100	0.100	0.100	
PM-1	0/17	100%	0.005-0.005	0.005	0.005	0.005	0.005	7.228E-21	8.502E-11	0.00000017	0.1	mg/L	N	0	0	NA	NA	NA	Non-parametric	0.0140	0.100	0.100	0.100	0.100	
POZ-4	0/17	100%	0.005-0.005	0.005	0.005	0.005	0.005	3.388E-21	5.821E-11	1.164E-08	0.1	mg/L	N	0	0	NA	NA	NA	0.005	N	N	N	N	FALSE	
POZ-6	0/17	100%	0.005-0.005	0.005	0.005	0.005	0.005	3.388E-21	5.821E-11	1.164E-08	0.1	mg/L	N	0	0	NA	NA	NA	0.005	N	N	N	N	FALSE	
POZ-7	1/17	94%	0.005-0.005	0.00505	0.005	0.00518	0.0059	4.765E-08	0.0002183	0.0432	0.1	mg/L	N	0	0	NA	NA	NA	0.005	N	N	N	N	FALSE	
CCR Appendix-IV: Cobalt, Total (mg/L)																									
CBW-1	18/18	0%	-	0.00106	0.00087	0.001615	0.0034	3.746E-07	0.0006121	0.5786	0.006	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.0034	0.006	0.006	0.006	0.006	
PM-1	17/18	6%	0.005-0.005	0.00115	0.00092	0.0016	0.001	9.273E-07	0.000963	0.8373	0.006	mg/L	N	0	0	No	No	Increasing	Non-parametric	0.0034	0.006	0.006	0.006	0.006	
POZ-4	20/20	0%	-	0.0887	0.06265	0.1986	0.21	0.004621	0.06797	0.7663	0.006														

Cross Class 2 Landfill

Detection Monitoring Statistical Analysis Summary

January 2022 Groundwater Monitoring Event

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile [Median]	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	January 2022 Concentrations	Detect?	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Upper Tolerance Limit)	SSL	
CCR Appendix-IV: Molybdenum, Total (mg/L)																										
CBW-1	0/16	100%	0.005-0.02	0.0103	0.01	0.0125		0.000008229	0.002869	0.2782	0.1	mg/L	N	0	0	NA	NA	NA	NA			0.010		0.10		
PM-1	0/16	100%	0.005-0.01	0.00969	0.01	0.01		0.00001562	0.00125	0.129	0.1	mg/L	N	0	0	NA	NA	NA	NA						FALSE	
POZ-4	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.00001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				FALSE	
POZ-6	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.00001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				FALSE	
POZ-7	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.00001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				FALSE	
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																										
CBW-1	10/17	41%	4-4	3.38	4	5.516	6.34	2.928	1.711	0.5062	5	pCi/L	Y	3	0	No	No	Decreasing	Non-parametric		16.3			16.3		
PM-1	11/17	35%	4-4	4.21	4	8.932	16.3	12.31	3.508	0.834	5	pCi/L	Y	2	0	Yes	No	Stable								FALSE
POZ-4	9/16	44%	4-4	3.22	4	4.865	6.29	2.521	1.588	0.4935	5	pCi/L	Y	1	0	No	No	Decreasing	Non-parametric	1.410	Y				FALSE	
POZ-6	8/16	50%	4-4	2.99	4	4.233	4.78	2.214	1.488	0.4973	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	1.740	Y				FALSE	
POZ-7	13/16	19%	4-4	3.35	4	5.008	5.39	2.007	1.417	0.4229	5	pCi/L	Y	1	0	No	No	Decreasing	Normal	2.200	Y				FALSE	
CCR Appendix-IV: Selenium, Total (mg/L)																										
CBW-1	0/18	100%	0.01-0.02	0.0114	0.01	0.02		0.00001147	0.003386	0.2965	0.05	mg/L	N	0	0	NA	NA	NA	NA		0.020			0.050		
PM-1	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000125	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA	NA						FALSE	
POZ-4	0/17	100%	0.005-0.02	0.0109	0.01	0.02		0.00001324	0.003638	0.3343	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				FALSE	
POZ-6	0/17	100%	0.005-0.02	0.0109	0.01	0.02		0.00001324	0.003638	0.3343	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				FALSE	
POZ-7	0/17	100%	0.005-0.02	0.0109	0.01	0.02		0.00001324	0.003638	0.3343	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				FALSE	
CCR Appendix-IV: Thallium, Total (mg/L)																										
CBW-1	0/16	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA		0.001			0.002		
PM-1	0/16	100%	0.001-0.01	0.00156	0.001	0.00325		0.000005062	0.00225	1.44	0.002	mg/L	N	0	1	NA	NA	NA	NA						FALSE	
POZ-4	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N				FALSE	
POZ-6	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N				FALSE	
POZ-7	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N				FALSE	



HALEY & ALDRICH, INC.
400 Augusta Street
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Greenville, SC 29601
864.214.8750

TECHNICAL MEMORANDUM

December 26, 2022

File No. 132892-011

SUBJECT: Statistical Evaluation of the Summer 2022 Semiannual Corrective Action Groundwater Monitoring Data, Cross Generating Station, Class 2 Landfill

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93, §257.95, and §257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the summer 2022 semiannual corrective action groundwater monitoring event for the Cross Generating Station (CGS) Class 2 Landfill. Data for this groundwater sampling event were validated on September 28, 2022 by Santee Cooper.

BACKGROUND

The CGS Class 2 Landfill was closed with water management enhancements as described in the Remedy Selection Report dated July 31, 2020. At that time, assessment monitoring identified the presence of cobalt in one or more downgradient wells at a statistically significant level (SSL) above the groundwater protection standard (GWPS). In addition to closure and water management enhancements, cobalt is being further addressed through monitored natural attenuation (MNA).

Recent analytical testing results were evaluated to determine if SSLs exist above the GWPS of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background wells. During previous groundwater sampling events, cobalt continued to be the only Appendix IV constituent detected at a SSL above the GWPS.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4)) represents a SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich, Inc. on October 14, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if a SSL existed. Statistical analysis results are presented in Table I.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the assumed distribution of background, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to development the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

If an Appendix IV constituent concentration from the event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate the presence of a SSL. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence.

After testing for outliers, the UTLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed. A visual inspection of the data was performed using distribution plots for the downgradient sample data. Based on our review, no sample data were identified as outliers that warranted removal from the dataset.

The background well (CBW-1 and PM-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation. The background dataset will be updated after the 2023 second semiannual sampling event in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance).

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table I). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with previous results, cobalt remains the only Appendix IV constituent present at a SSL above GWPS at POZ-4.

All other wells meet the GWPS, including POZ-6 which did not meet the GWPS prior to implementation of the selected remedy. These results reflect the predicted cobalt groundwater flow and fate and transport modeling results.

The ongoing performance of the selected remedy in achieving GWPS will continue to be evaluated during subsequent semiannual sampling events.

Enclosures:

Table I – CGS Class 2 Landfill Summer 2022 Semiannual Corrective Action Monitoring Data

TABLE

TABLE I
CGS CLASS 2 LANDFILL
SUMMER 2022 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	June 2022 Concentrations	Inter-well Analysis						
																					Detect?	95% LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Upper Tolerance Limit)	SSL	
CCR Appendix-IV: Antimony, Total (mg/L)																											
CBW-1	0/17	100%	0.005-0.025	0.00618	0.005	0.009		0.00002353	0.004851	0.7854	0.006	mg/L	N	0	1	NA	NA	NA	NA				0.025		0.025		
PM-1	0/17	100%	0.005-0.025	0.00647	0.005	0.013		0.00002426	0.004926	0.7613	0.006	mg/L	N	0	2	NA	NA	NA	NA								
POZ-4	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N				N		NO
POZ-6	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N				N		NO
POZ-7	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N				N		NO
CCR Appendix-IV: Arsenic, Total (mg/L)																											
CBW-1	3/19	84%	0.003-0.005	0.00558	0.005	0.00763	0.016	0.000006754	0.002599	0.4655	0.01	mg/L	Y	1	0	Yes	No	NA	Non-parametric				0.016		0.016		
PM-1	2/19	89%	0.005-0.01	0.00514	0.005	0.0055	0.0042	0.000001528	0.001236	0.2404	0.01	mg/L	N	0	0	No	No	NA									
POZ-4	1/18	94%	0.003-0.005	0.00467	0.005	0.005	0.0031	5.692E-07	0.0007544	0.1615	0.01	mg/L	N	0	0	No	No	NA	NA	0.005	N				N		NO
POZ-6	1/18	94%	0.003-0.005	0.00472	0.005	0.005	0.0039	4.568E-07	0.0006758	0.1433	0.01	mg/L	N	0	0	No	No	NA	NA	0.005	N				N		NO
POZ-7	0/18	100%	0.003-0.005	0.00467	0.005	0.005		5.882E-07	0.000767	0.1643	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.005	N				N		NO
CCR Appendix-IV: Barium, Total (mg/L)																											
CBW-1	19/19	0%	-	0.0432	0.0428	0.04867	0.061	0.00002887	0.005373	0.1245	2	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric				0.103		2.000		
PM-1	19/19	0%	-	0.0822	0.0803	0.1003	0.103	0.00007332	0.008563	0.1041	2	mg/L	N	0	0	Yes	No	Stable									
POZ-4	18/18	0%	-	0.116	0.096	0.1981	0.255	0.002469	0.04969	0.4292	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.087	Y				N		NO
POZ-6	18/18	0%	-	0.0529	0.0497	0.0694	0.1	0.0001888	0.01374	0.2599	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.058	Y				N		NO
POZ-7	18/18	0%	-	0.239	0.249	0.3159	0.389	0.004649	0.06818	0.2848	2	mg/L	N	0	0	No	No	Stable	Normal	0.220	Y				N		NO
CCR Appendix-IV: Beryllium, Total (mg/L)																											
CBW-1	1/18	94%	0.0005-0.005	0.000507	0.0005	0.0005195	0.00063	9.389E-10	0.00003064	0.06041	0.004	mg/L	N	0	0	No	No	NA	Non-parametric				0.00500		0.005		
PM-1	0/19	100%	0.0005-0.005	0.000737	0.0005	0.00095		0.000001066	0.001032	1.401	0.004	mg/L	N	0	1	NA	NA	NA									
POZ-4	10/17	41%	0.0005-0.005	0.000668	0.000512	0.001158	0.00139	7.213E-08	0.0002686	0.4022	0.004	mg/L	N	0	0	No	No	Stable	Non-parametric	0.0007	Y				N		NO
POZ-6	0/17	100%	0.0005-0.005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA		0.0005	N				N		NO
POZ-7	11/17	35%	0.0005-0.005	0.000648	0.00063	0.000899	0.000935	2.531E-08	0.0001591	0.2455	0.004	mg/L	N	0	0	No	No	Stable	Non-parametric	0.0005	N				N		NO
CCR Appendix-IV: Cadmium, Total (mg/L)																											
CBW-1	0/18	100%	0.0005-0.004	0.000694	0.0005	0.001025		6.806E-07	0.000825	1.188	0.005	mg/L	N	0	0	NA	NA	NA	NA				0.0050		0.005		
PM-1	0/18	100%	0.0005-0.005	0.000944	0.0005	0.00415		0.000001703	0.001305	1.382	0.005	mg/L	N	0	0	NA	NA	NA									
POZ-4	2/18	89%	0.0005-0.004	0.000717	0.0005	0.001289	0.00081	6.769E-07	0.000827	1.147	0.005	mg/L	N	0	0	Yes	No	NA	NA	0.0040	N				N		NO
POZ-6	0/18	100%	0.0005-0.004	0.000694	0.0005	0.001025		6.806E-07	0.000825	1.188	0.005	mg/L															

TABLE I
CGS CLASS 2 LANDFILL
SUMMER 2022 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	June 2022 Concentrations	Inter-well Analysis					
																					Detect?	95% LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Upper Tolerance Limit)	SSL
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																										
CBW-1	11/18	39%	4-4	3.3	4	5.464	6.34	2.864	1.692	0.5125	5	pCi/L	Y	3	0	No	No	Decreasing	Non-parametric	16.3	N	16.3	NO	NO		
PM-1	12/18	33%	4-4	4.06	4	8.472	16.3	11.97	3.459	0.8517	5	pCi/L	Y	2	0	Yes	No	Decreasing								
POZ-4	10/17	41%	4-4	3.17	4	4.77	6.29	2.394	1.547	0.4873	5	pCi/L	Y	1	0	No	No	Decreasing	Normal	2.500	Y	N	N	NO	NO	
POZ-6	9/17	47%	4-4	2.84	4	4.196	4.78	2.456	1.567	0.5514	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	0.447	Y	N	N	NO	NO	
POZ-7	14/17	18%	4-4	3.41	4	4.982	5.39	1.939	1.392	0.4086	5	pCi/L	Y	1	0	No	No	Stable	Normal	4.340	Y	N	N	NO	NO	
CCR Appendix-IV: Selenium, Total (mg/L)																										
CBW-1	0/19	100%	0.01-0.05	0.0135	0.01	0.023		0.00008916	0.009442	0.7019	0.05	mg/L	N	0	1	NA	NA	NA	NA	0.050	N	0.050	NO	NO		
PM-1	0/19	100%	0.005-0.02	0.0113	0.01	0.02		0.00001623	0.004028	0.356	0.05	mg/L	N	0	0	NA	NA	NA								
POZ-4	0/18	100%	0.005-0.02	0.0114	0.01	0.02		0.00001708	0.004132	0.3628	0.05	mg/L	N	0	0	NA	NA	NA	0.020	N	N	N	NO	NO		
POZ-6	0/18	100%	0.005-0.02	0.0114	0.01	0.02		0.00001708	0.004132	0.3628	0.05	mg/L	N	0	0	NA	NA	NA	0.020	N	N	N	NO	NO		
POZ-7	0/18	100%	0.005-0.02	0.0114	0.01	0.02		0.00001708	0.004132	0.3628	0.05	mg/L	N	0	0	NA	NA	NA	0.020	N	N	N	NO	NO		
CCR Appendix-IV: Thallium, Total (mg/L)																										
CBW-1	0/17	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.010	N	0.010	NO	NO		
PM-1	0/17	100%	0.001-0.01	0.00153	0.001	0.0028		0.000004765	0.002183	1.427	0.002	mg/L	N	0	1	NA	NA	NA								
POZ-4	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0.002	mg/L	N	0	0	NA	NA	NA	0.001	N	N	N	NO	NO			
POZ-6	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0.002	mg/L	N	0	0	NA	NA	NA	0.001	N	N	N	NO	NO			
POZ-7	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0.002	mg/L	N	0	0	NA	NA	NA	0.001	N	N	N	NO	NO			

Appendix B – Laboratory Analytical Reports



One Riverwood Drive
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(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.05	mg/L	02/15/2022	SJHATCHÉ	EPA 6010C
Antimony	<10.0	ug/L	02/16/2022	SJHATCHÉ	EPA 6010D
Arsenic	<10.0	ug/L	02/15/2022	SJHATCHÉ	EPA 6010D
Arsenic Dissolved	<10.0	ug/L	02/16/2022	SJHATCHÉ	EPA 6010C
Barium	82.6	ug/L	02/15/2022	SJHATCHÉ	EPA 6010D
Beryllium	<5	ug/L	04/27/2022	EUROFINS SAV	EPA 6020B
Boron	11.0	ug/L	02/15/2022	SJHATCHÉ	EPA 6010D
Cadmium	<5	ug/L	04/27/2022	EUROFINS SAV	EPA 6020B
Calcium	14.4	mg/L	02/15/2022	SJHATCHÉ	EPA 6010D
Cobalt	<5.00	ug/L	02/16/2022	SJHATCHÉ	EPA 6010D
Iron	11900	ug/L	02/15/2022	SJHATCHÉ	EPA 6010D
Lead	<10.0	ug/L	02/16/2022	SJHATCHÉ	EPA 6010D
Lithium	3.7	ug/L	02/16/2022	PACE	EPA 6010D
Magnesium	0.73	mg/L	02/15/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.20	ug/L	02/17/2022	PACE	EPA 7470
Molybdenum	<5.0	ug/L	02/15/2022	PACE	EPA 6010D
Potassium	<1	mg/L	02/28/2022	TESTAMERICA	EPA 6010D
Selenium	<5	ug/L	04/26/2022	EUROFINS SAV	EPA 6020B
Sodium	5.510	mg/L	02/28/2022	TESTAMERICA	EPA 6010D
Zinc	<10.0	ug/L	02/16/2022	SJHATCHÉ	EPA 6010D
Thallium	<10	ug/L	04/27/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	128.8	mg/L	01/28/2022	KCWELLS	SM 2540C
Fluoride	<0.10	mg/L	01/26/2022	KCWELLS	EPA 300.0
Chloride	12.1	mg/L	01/26/2022	KCWELLS	EPA 300.0
Sulfate	11.7	mg/L	01/26/2022	KCWELLS	EPA 300.0
Radium 226	2.14	pCi/L	02/11/2022	GEL	EPA 903.1 Mod
Radium 228	0.540	pCi/L	02/10/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.69	pCi/L	02/21/2022	GEL	EPA 903.1 Mod
pH	5.19	SU	01/24/2022	BRT/BSB	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc. - Lab ID# 32010 "ROGERSCALLCO" - Rogers & Callcot, Inc. - Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 5/23/22

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample #	AF24776	Location:	GW Well CBW-1	Date:	01/24/2022	Sample Collector:	BRT/BSB
Loc. Code	CBW-1			Time:	09:54		

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.91	mg/L	03/01/2022	SJHATCHÉ	EPA 6010C
Arsenic	<3	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Arsenic Dissolved	<10.0	ug/L	02/17/2022	SJHATCHÉ	EPA 6010C
Barium	37.7	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Beryllium	<0.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Boron	13.9	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Cadmium	<0.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Calcium	27.9	mg/L	03/01/2022	SJHATCHÉ	EPA 6010D
Cobalt	0.73	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Iron	66.0	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Lead	2.7	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Lithium	0.66	ug/L	02/16/2022	PACE	EPA 6010D
Magnesium	2.24	mg/L	03/01/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.20	ug/L	02/17/2022	PACE	EPA 7470
Molybdenum	<5.0	ug/L	02/15/2022	PACE	EPA 6010D
Potassium	<1	mg/L	03/07/2022	TESTAMERICA	EPA 6010D
Antimony	<5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Selenium	<15.6	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Sodium	2.380	mg/L	03/07/2022	TESTAMERICA	EPA 6010D
Zinc	<10.0	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Thallium	<1	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	130.0	mg/L	01/28/2022	KCWELLS	SM 2540C
Fluoride	0.22	mg/L	01/26/2022	KCWELLS	EPA 300.0
Chloride	3.21	mg/L	01/26/2022	KCWELLS	EPA 300.0
Sulfate	82.8	mg/L	01/26/2022	KCWELLS	EPA 300.0
Radium 226	0.640	pCi/L	02/11/2022	GEL	EPA 903.1 Mod
Radium 228	1.80	pCi/L	02/10/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.44	pCi/L	02/21/2022	GEL	EPA 903.1 Mod
pH	4.26	SU	01/24/2022		BRT/BSB

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 5/13/22



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Barium	119	ug/L	03/01/2022	SJHATCHET	EPA 6010D
Cadmium	<0.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Cobalt	24.90	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Iron	305	ug/L	03/01/2022	SJHATCHET	EPA 6010D
Lead	<2.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Zinc	<10.0	ug/L	03/01/2022	SJHATCHET	EPA 6010D
Boron	<10.0	ug/L	03/01/2022	SJHATCHET	EPA 6010D
Arsenic Dissolved	<10.0	ug/L	02/17/2022	SJHATCHET	EPA 6010C
Total Organic Carbon	2.49	mg/L	02/02/2022	GEL	SM 5310B
Chloride	325	mg/L	01/26/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	01/26/2022	KCWELLS	EPA 300.0
Sulfate	83.5	mg/L	01/26/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1125	mg/L	02/08/2022	COAMESWA	SM 2540C
pH	6.30	SU	01/25/2022	BRT/BSB	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc.- Lab ID# 32010

Sample Validated:

Linda Dillman

Final Validation Date: 05/11/2022

Linda Williams - Supervisor, Analytical Services



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Barium	49.5	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Cadmium	<0.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Cobalt	2.69	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Iron	11600	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Lead	<2.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Zinc	<10.0	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Boron	41	ug/L	02/13/2022	PACE	EPA 6010D
Arsenic Dissolved	<10.0	ug/L	02/17/2022	SJHATCHETE	EPA 6010C
Total Organic Carbon	2.96	mg/L	02/02/2022	GEL	SM 5310B
Chloride	280	mg/L	01/26/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	01/26/2022	KCWELLS	EPA 300.0
Sulfate	453	mg/L	01/26/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1571	mg/L	02/05/2022	KCWELLS	SM 2540C
pH	6.65	SU	01/25/2022	BRT/BSB	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc.- Lab ID# 32010

Sample Validated:

Linda Ellingsen

Final Validation Date: 05/11/2022

Linda Williams - Supervisor, Analytical Services



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Barium	128	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Cadmium	<0.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.06	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Iron	49.3	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Lead	<2.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Zinc	<10.0	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Boron	<10.0	ug/L	03/01/2022	SJHATCHETE	EPA 6010D
Arsenic Dissolved	<10.0	ug/L	02/17/2022	SJHATCHETE	EPA 6010C
Total Organic Carbon	<1	mg/L	02/02/2022	GEL	SM 5310B
Chloride	32.1	mg/L	01/26/2022	KCWELLS	EPA 300.0
Nitrate	0.11	mg/L	01/26/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	01/26/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	196.2	mg/L	02/05/2022	KCWELLS	SM 2540C
pH	5.25	SU	01/26/2022	BRT/BSB	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc.- Lab ID# 32010

Sample Validated:

Linda Dillarz

Final Validation Date: 05/11/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF24807 Location: GW Well POZ-7 Date: 01/26/2022 Sample Collector: BRT/BSB
Loc. Code POZ-7 DUP Time: 10:35

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Barium	131	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Cadmium	<0.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.94	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Iron	28.7	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Lead	<2.5	ug/L	04/18/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Zinc	<10.0	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Boron	<10.0	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Arsenic Dissolved	<10.0	ug/L	02/17/2022	SJHATCHÉ	EPA 6010C
Total Organic Carbon	<1	mg/L	02/02/2022	GEL	SM 5310B
Chloride	34.7	mg/L	01/26/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	01/26/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	01/26/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	137.5	mg/L	02/05/2022	KCWELLS	SM 2540C

 Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001;
 "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010

Sample Validated:



Final Validation Date: 05/11/2022

Linda Williams - Supervisor, Analytical Services



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CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Barium	715	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Beryllium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Boron	24.2	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Cadmium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Calcium	791	mg/L	03/01/2022	SJHATCHÉ	EPA 6010D
Cobalt	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lithium	184	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.20	ug/L	03/01/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	03/01/2022	SJHATCHÉ	EPA 6010D
Antimony	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	3795	mg/L	02/04/2022	SJBROWN	SM 2540C
Fluoride	0.21	mg/L	02/07/2022	KCWELLS	EPA 300.0
Chloride	1610	mg/L	02/07/2022	KCWELLS	EPA 300.0
Sulfate	111	mg/L	02/07/2022	KCWELLS	EPA 300.0
Radium 226	0.152	pCi/L	02/28/2022	GEL	EPA 903.1 Mod
Radium 228	1.49	pCi/L	03/04/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.64	pCi/L	03/04/2022	GEL	EPA 903.1 Mod
pH	6.45	SU	01/31/2022	BRT/BSB	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc. - Lab ID# 32010 "ROGERSCALLCO" - Rogers & Callcot, Inc. - Lab ID # 23105001

Analysis Validated:

Linda Dillman

Validated date: 5/12/22

Linda Williams - Supervisor Analytical Services



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Barium	110	ug/L	02/24/2022	SJHATCHÉ	EPA 6010D
Beryllium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Boron	19.2	ug/L	02/24/2022	SJHATCHÉ	EPA 6010D
Cadmium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Calcium	15.0	mg/L	02/24/2022	SJHATCHÉ	EPA 6010D
Cobalt	4.75	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	02/24/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.20	ug/L	02/25/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	02/24/2022	SJHATCHÉ	EPA 6010D
Antimony	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	107.5	mg/L	02/16/2022	KCWELLS	SM 2540C
Fluoride	<0.10	mg/L	02/16/2022	KCWELLS	EPA 300.0
Chloride	11.3	mg/L	02/16/2022	KCWELLS	EPA 300.0
Sulfate	22.6	mg/L	02/16/2022	KCWELLS	EPA 300.0
Radium 226	0.860	pCi/L	03/06/2022	GEL	EPA 903.1 Mod
Radium 228	2.41	pCi/L	03/11/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.27	pCi/L	03/12/2022	GEL	EPA 903.1 Mod
pH	5.58	SU	02/10/2022	BRT/BSB	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 5/12/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF24778 **Location:** GW Well CCMLF-1D **Date:** 02/10/2022 **Sample Collector:** BRT/BSB
Loc. Code CCMLF-1D **Time:** 12:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Barium	36.3	ug/L	02/24/2022	SJHATCHET	EPA 6010D
Beryllium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Boron	<10.0	ug/L	02/24/2022	SJHATCHET	EPA 6010D
Cadmium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Calcium	44.5	mg/L	02/24/2022	SJHATCHET	EPA 6010D
Cobalt	0.58	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	02/24/2022	SJHATCHET	EPA 6010D
Mercury	<0.20	ug/L	02/25/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	02/24/2022	SJHATCHET	EPA 6010D
Antimony	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	178.8	mg/L	02/16/2022	KCWELLS	SM 2540C
Fluoride	<0.10	mg/L	02/16/2022	KCWELLS	EPA 300.0
Chloride	6.99	mg/L	02/16/2022	KCWELLS	EPA 300.0
Sulfate	5.76	mg/L	02/16/2022	KCWELLS	EPA 300.0
Radium 226	0.330	pCi/L	03/06/2022	GEL	EPA 903.1 Mod
Radium 228	2.40	pCi/L	03/11/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.72	pCi/L	03/12/2022	GEL	EPA 903.1 Mod
pH	7.09	SU	02/10/2022	BRT/BSB	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 5/12/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF24779 **Location:** GW Well CCMLF-2 **Date:** 02/08/2022 **Sample Collector:** BRT/BSB

Loc. Code CCMLF-2 **Time:** 16:04

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Barium	30.1	ug/L	02/24/2022	SJHATCHETE	EPA 6010D
Beryllium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Boron	13.5	ug/L	02/24/2022	SJHATCHETE	EPA 6010D
Cadmium	<0.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Calcium	6.61	mg/L	02/24/2022	SJHATCHETE	EPA 6010D
Cobalt	1.94	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	02/24/2022	SJHATCHETE	EPA 6010D
Mercury	<0.20	ug/L	02/25/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	02/24/2022	SJHATCHETE	EPA 6010D
Antimony	<5	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	04/22/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	04/19/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	78.75	mg/L	02/11/2022	KCWELLS	SM 2540C
Fluoride	<0.10	mg/L	02/10/2022	KCWELLS	EPA 300.0
Chloride	4.95	mg/L	02/10/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	02/10/2022	KCWELLS	EPA 300.0
Radium 226	0.296	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	0.0778	pCi/L	03/08/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.374	pCi/L	03/10/2022	GEL	EPA 903.1 Mod
pH	5.59	SU	02/08/2022	BRT/BSB	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 5/12/22

Linda Williams - Supervisor Analytical Services



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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.05	ug/L	08/16/2022	R&C	EPA 6010C
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Barium	76.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Boron	<15	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Calcium	6.200	ug/L	08/16/2022	R&C	EPA 6010D
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Cobalt	1.00	ug/L	08/16/2022	R&C	EPA 6020B
Iron	6000	ug/L	08/16/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	0.500	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	06/29/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	0.600	ug/L	08/16/2022	R&C	EPA 6010D
Selenium	<20	ug/L	08/16/2022	R&C	EPA 6010D
Sodium	5.60	ug/L	08/16/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Zinc	13.0	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	<0.10	mg/L	06/21/2022	AMSOULE	EPA 300.0
Chloride	13.4	mg/L	06/21/2022	AMSOULE	EPA 300.0
Sulfate	6.59	mg/L	06/21/2022	AMSOULE	EPA 300.0
Total Dissolved Solids	137.5	mg/L	07/19/2022	AMSOULE	SM 2540C
Radium 226	0.900	pCi/L	07/12/2022	GEL	EPA 903.1 Mod
Radium 228	0.687	pCi/L	08/29/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.59	pCi/L	08/29/2022	GEL	EPA 903.1 Mod
pH	4.84	SU	06/20/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc. - Lab ID# 32010 "ROGERSCALLCO" - Rogers & Callcot, Inc. - Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services



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LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.810	ug/L	08/16/2022	R&C	EPA 6010C
Antimony	<5	ug/L	09/10/2022	EUROFINS SAV	EPA 6020B
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Barium	33.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Boron	15.0	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Calcium	29.00	ug/L	08/16/2022	R&C	EPA 6010D
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Cobalt	<1	ug/L	08/16/2022	R&C	EPA 6020B
Iron	140	ug/L	08/16/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	1.90	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	06/29/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	0.600	ug/L	08/16/2022	R&C	EPA 6010D
Selenium	<50	ug/L	08/05/2022	R&C	EPA 6010D
Sodium	3.20	ug/L	08/16/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Zinc	<10	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	0.18	mg/L	06/21/2022	AMSOULE	EPA 300.0
Chloride	3.79	mg/L	06/21/2022	AMSOULE	EPA 300.0
Sulfate	78.3	mg/L	06/21/2022	AMSOULE	EPA 300.0
Total Dissolved Solids	143.8	mg/L	06/24/2022	AMSOULE	SM 2540C
Radium 226	0.702	pCi/L	07/12/2022	GEL	EPA 903.1 Mod
Radium 228	1.27	pCi/L	08/10/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.98	pCi/L	08/29/2022	GEL	EPA 903.1 Mod
pH	4.45	SU	06/20/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc. - Lab ID# 32010 "ROGERSCALLCO" - Rogers & Callcot, Inc. - Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF36903 Location: GW Well POZ-4 Date: 06/28/2022 Sample Collector: DEW/ML
Loc. Code POZ-4
Time: 11:35

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.05	ug/L	08/16/2022	R&C	EPA 6010C
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Barium	87.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	0.7	ug/L	08/16/2022	R&C	EPA 6020B
Boron	22.0	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Calcium	310.0	ug/L	08/16/2022	R&C	EPA 6010D
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Cobalt	109.00	ug/L	08/16/2022	R&C	EPA 6020B
Iron	420	ug/L	08/16/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	13.0	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	5.80	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	4.90	ug/L	08/16/2022	R&C	EPA 6010D
Selenium	<20	ug/L	08/05/2022	R&C	EPA 6010D
Sodium	89.0	ug/L	08/16/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Zinc	<10	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	<0.10	mg/L	06/28/2022	KCWELLS	EPA 300.0
Chloride	563	mg/L	06/28/2022	KCWELLS	EPA 300.0
Sulfate	148	mg/L	06/28/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2174	mg/L	07/01/2022	SJBROWN	SM 2540C
Radium 226	2.50	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	-0.993	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.50	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
pH	5.92	SU	06/27/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF36905 Location: GW Well POZ-6 Date: 06/28/2022 Sample Collector: DEW/ML
Loc. Code POZ-6
Time: 13:22

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.0680	ug/L	08/16/2022	R&C	EPA 6010C
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Barium	58.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Boron	44.0	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Calcium	470.0	ug/L	08/16/2022	R&C	EPA 6010D
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Cobalt	4.00	ug/L	08/16/2022	R&C	EPA 6020B
Iron	13000	ug/L	08/16/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	8.80	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	1.90	ug/L	08/16/2022	R&C	EPA 6010D
Selenium	<20	ug/L	08/05/2022	R&C	EPA 6010D
Sodium	69.0	ug/L	08/16/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Zinc	<10	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	<0.10	mg/L	06/28/2022	KCWELLS	EPA 300.0
Chloride	388	mg/L	06/28/2022	KCWELLS	EPA 300.0
Sulfate	551	mg/L	06/28/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2331	mg/L	07/01/2022	SJBROWN	SM 2540C
Radium 226	0.447	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	-0.339	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.447	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
pH	6.52	SU	06/28/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories , Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 9/12/22



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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.0620	ug/L	08/16/2022	R&C	EPA 6010C
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Barium	220	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Boron	<15	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Calcium	47.00	ug/L	08/16/2022	R&C	EPA 6010D
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Cobalt	1.00	ug/L	08/16/2022	R&C	EPA 6020B
Iron	230	ug/L	08/16/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	2.00	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	3.30	ug/L	08/16/2022	R&C	EPA 6010D
Selenium	<20	ug/L	08/05/2022	R&C	EPA 6010D
Sodium	10.0	ug/L	08/16/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Zinc	<10	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	0.27	mg/L	06/28/2022	KCWELLS	EPA 300.0
Chloride	64.4	mg/L	06/28/2022	KCWELLS	EPA 300.0
Sulfate	3.76	mg/L	06/28/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	257.5	mg/L	07/01/2022	SJBROWN	SM 2540C
Radium 226	1.78	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	2.56	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.34	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
pH	5.85	SU	06/28/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF36907 Location: GW Well POZ-7 Date: 06/28/2022 Sample Collector: DEW/ML
Loc. Code POZ-7 DUP Time: 14:46

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.05	ug/L	08/16/2022	R&C	EPA 6010C
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Barium	230	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Boron	<15	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Calcium	51.00	ug/L	08/16/2022	R&C	EPA 6010D
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Cobalt	<1	ug/L	08/16/2022	R&C	EPA 6020B
Iron	69.0	ug/L	08/16/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	2.00	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	3.40	ug/L	08/16/2022	R&C	EPA 6010D
Selenium	<20	ug/L	08/05/2022	R&C	EPA 6010D
Sodium	9.80	ug/L	08/16/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Zinc	<10	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	0.16	mg/L	06/28/2022	KCWELLS	EPA 300.0
Chloride	64.8	mg/L	06/28/2022	KCWELLS	EPA 300.0
Sulfate	3.61	mg/L	06/28/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	272.5	mg/L	07/01/2022	SJBROWN	SM 2540C
Radium 226	1.11	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	0.702	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.81	pCi/L	07/25/2022	GEL	EPA 903.1 Mod

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Barium	300	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Calcium	390.0	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Cobalt	1.00	ug/L	08/16/2022	R&C	EPA 6020B
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/05/2022		EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Boron	26.0	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	28.0	ug/L	08/16/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Total Dissolved Solids	2299	mg/L	07/01/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	06/28/2022	KCWELLS	EPA 300.0
Chloride	664	mg/L	06/28/2022	KCWELLS	EPA 300.0
Sulfate	32.4	mg/L	06/28/2022	KCWELLS	EPA 300.0
Radium 226	0.386	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	0.702	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.09	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
pH	6.72	SU	06/28/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc. - Lab ID# 32010 "ROGERSCALLCO" - Rogers & Callcot, Inc. - Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Barium	82.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Calcium	25.00	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Cobalt	<4	ug/L	08/16/2022	R&C	EPA 6020B
Chromium	<10	ug/L	08/16/2022	R&C	EPA 6020B
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/14/2022	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/05/2022		EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Boron	18.0	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Total Dissolved Solids	100.0	mg/L	07/01/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	07/07/2022	KCWELLS	EPA 300.0
Chloride	8.63	mg/L	07/07/2022	KCWELLS	EPA 300.0
Sulfate	13.1	mg/L	07/07/2022	KCWELLS	EPA 300.0
Radium 226	0.927	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	0.560	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.48	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
pH	6.23	SU	06/29/2022	DEW/ML	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc.- Lab ID# 32010

Sample Validated:

Linda Williams

Final Validation Date: 09/15/2022

Linda Williams - Supervisor, Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF36886 Location: GW Well CCMLF-1D
Date: 06/29/2022
Sample Collector: DEW/ML
Loc. Code CCMLF-1D
Time: 10:33

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Barium	40.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Calcium	55.00	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Cobalt	<2	ug/L	08/16/2022	R&C	EPA 6020B
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/05/2022		EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Boron	15.0	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Total Dissolved Solids	156.2	mg/L	07/01/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	07/07/2022		EPA 300.0
Chloride	6.52	mg/L	07/07/2022	KCWELLS	EPA 300.0
Sulfate	3.25	mg/L	07/07/2022	KCWELLS	EPA 300.0
Radium 226	0.528	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	1.07	pCi/L	07/14/2022		EPA 904.0
Radium 226/228 Combined Calculation	1.60	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
Total Organic Carbon	<1	mg/L	07/03/2022	GEL	SM 5310B
pH	7.21	SU	06/29/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date: 9/12/22



One Riverwood Drive
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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF36887 **Location:** GW Well CCMLF-2 **Date:** 06/29/2022 **Sample Collector:** DEW/ML
Loc. Code CCMLF-2 **Time:** 11:40

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Barium	35.0	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	08/16/2022	R&C	EPA 6020B
Calcium	16.00	ug/L	08/16/2022	R&C	EPA 6010D
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Cobalt	<2	ug/L	08/16/2022	R&C	EPA 6020B
Chromium	<5	ug/L	08/16/2022	R&C	EPA 6020B
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/05/2022		EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Boron	<15	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/11/2022	GEL	EPA 7470
Total Dissolved Solids	63.75	mg/L	07/01/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	07/07/2022	KCWELLS	EPA 300.0
Chloride	6.54	mg/L	07/07/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	07/07/2022	KCWELLS	EPA 300.0
Radium 226	0.411	pCi/L	07/20/2022	GEL	EPA 903.1 Mod
Radium 228	0.953	pCi/L	07/14/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.36	pCi/L	07/25/2022	GEL	EPA 903.1 Mod
Total Organic Carbon	<1	mg/L	07/03/2022	GEL	SM 5310B
pH	5.98	SU	06/29/2022	DEW/ML	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy" - Shealy Environmental Services, Inc. - Lab ID# 32010 "ROGERSCALLCO" - Rogers & Callcot, Inc. - Lab ID # 23105001

Analysis Validated:

Linda Williams

Validated date: 9/12/22

Linda Williams - Supervisor Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample #	AF36874	Location:	GW Well CAP-13	Date:	06/22/2022	Sample Collector:	DEW/ML
Loc. Code				Time:	10:27		

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.220	ug/L	08/16/2022	R&C	EPA 6010C
Arsenic	<5	ug/L	08/16/2022	R&C	EPA 6020B
Barium	100	ug/L	08/05/2022	R&C	EPA 6010D
Beryllium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Calcium	21.00	ug/L	08/16/2022	R&C	EPA 6010D
Cobalt	<4	ug/L	08/16/2022	R&C	EPA 6020B
Chromium	<10	ug/L	08/16/2022	R&C	EPA 6020B
Antimony	<5	ug/L	09/10/2022	EUROFINS SAV	EPA 6020B
Antimony	<50	ug/L	08/05/2022	R&C	EPA 6010D
Selenium	<20	ug/L	08/05/2022	R&C	EPA 6010D
Thallium	<1	ug/L	08/16/2022	R&C	EPA 6020B
Boron	23.0	ug/L	08/16/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/16/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/16/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	08/29/2022	GEL	EPA 7470
Iron	11000	ug/L	08/16/2022	R&C	EPA 6010D
Potassium	1.30	ug/L	08/16/2022	R&C	EPA 6010D
Sodium	7.00	ug/L	08/16/2022	R&C	EPA 6010D
Magnesium	0.900	ug/L	08/16/2022	R&C	EPA 6010D
Fluoride	<0.10	mg/L	08/24/2022	KCWELLS	EPA 300.0
Chloride	5.32	mg/L	08/24/2022	KCWELLS	EPA 300.0
Sulfate	48.4	mg/L	08/24/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	192.5	mg/L	07/08/2022	AMSOULE	SM 2540C
Radium 226	0.236	pCi/L	07/12/2022	GEL	EPA 903.1 Mod
Radium 228	0.337	pCi/L	08/10/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.573	pCi/L	08/29/2022	GEL	EPA 903.1 Mod
pH	5.41	SU	08/22/2022	DEW/ML	
Arsenic Dissolved	<5.0	ug/L	08/13/2022	R&C	EPA 6020B
Cadmium	<4	ug/L	08/16/2022	R&C	EPA 6010D
Copper	<10	ug/L	08/16/2022	R&C	EPA 6010D
Nickel	<10	ug/L	08/05/2022	R&C	EPA 6010D
Lead	<10	ug/L	08/16/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/16/2022	R&C	EPA 6010D

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:


Validated date: 9/12/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF47633 Location: GW Well PM-1 Date: 10/25/2022 Sample Collector: WJK/ML
Loc. Code PM-1
Time: 09:27

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	85.1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	13.10	mg/l	11/08/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.89	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<10	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Boron	43.7	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Lithium	5.44	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.6	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	10900	ug/l	11/08/2022	EUROFINS SAV	EPA 6010D
Potassium	<1	mg/L	11/08/2022	EUROFINS SAV	EPA 6010D
Sodium	5.68	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	0.650	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	12.9	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	10/31/2022	GEL	EPA 9034
Total Organic Carbon	5.25	mg/L	11/02/2022	GEL	SM 5310B
Dissolved Organic Carbon	5.37	mg/L	11/03/2022	GEL	SM 5310B
Nitrate-Nitrite Cadmium Reduction	<0.1	mg/L	11/04/2022	GEL	EPA 353.2
Fluoride	<0.10	mg/L	11/02/2022	KCWELLS	EPA 300.0
Chloride	12.7	mg/L	11/02/2022	KCWELLS	EPA 300.0
Sulfate	7.99	mg/L	11/02/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	96.25	mg/L	11/03/2022	KCWELLS	SM 2540C
Radium 226	0.738	pCi/L	11/06/2022	GEL	EPA 903.1 Mod
Radium 228	2.16	pCi/L	11/04/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.90	pCi/L	11/07/2022	GEL	EPA 903.1 Mod
pH	5.01	SU	10/25/2022	WJK/ML	
Alkalinity	34.4	mg/L	11/01/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/01/2022	GEL	SM 2320B
Bicarbonate Alkalinity	34.4	mg/L	11/01/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	3	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	6	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	10900	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	13	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:


Validated date: 12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF47632 Location: GW Well CBW-1 Date: 10/25/2022 Sample Collector: WJK/ML
Loc. Code CBW-1
Time: 10:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	46.6	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Calcium	27.50	mg/l	11/08/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.63	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	3.2	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<10	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Boron	20.3	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Lithium	<5.00	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.4	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	<100	ug/l	11/08/2022	EUROFINS SAV	EPA 6010D
Potassium	<1	mg/L	11/08/2022	EUROFINS SAV	EPA 6010D
Sodium	5.74	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	1.82	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	14.5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	10/31/2022	GEL	EPA 9034
Total Organic Carbon	1.64	mg/L	11/02/2022	GEL	SM 5310B
Dissolved Organic Carbon	2.53	mg/L	11/03/2022	GEL	SM 5310B
Nitrate-Nitrite Cadmium Reduction	0.655	mg/L	11/04/2022	GEL	EPA 353.2
Fluoride	<0.10	mg/L	11/02/2022	KCWELLS	EPA 300.0
Chloride	3.78	mg/L	11/02/2022	KCWELLS	EPA 300.0
Sulfate	80.4	mg/L	11/02/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	110.0	mg/L	11/03/2022	KCWELLS	SM 2540C
Radium 226	0.630	pCi/L	11/06/2022	GEL	EPA 903.1 Mod
Radium 228	1.88	pCi/L	11/04/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.51	pCi/L	11/07/2022	GEL	EPA 903.1 Mod
pH	4.31	SU	10/25/2022	WJK/ML	
Alkalinity	<4	mg/L	11/01/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/01/2022	GEL	SM2320B
Bicarbonate Alkalinity	<4	mg/L	11/01/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	264	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	13	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:


Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF47641 **Location:** GW Well POZ-4 **Date:** 11/01/2022 **Sample Collector:** WJK/TC
Loc. Code POZ-4 **Time:** 12:28

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	121	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	273.0	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	60.00	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	21.4	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Lithium	11.8	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.4	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	494	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	2.33	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	66.8	mg/L	11/09/2022	EUROFINS SAV	EPA 6010D
Magnesium	4.57	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	1840.0	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	1.56	mg/L	11/10/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.62	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Fluoride	0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Chloride	388	mg/L	11/04/2022	KCWELLS	EPA 300.0
Sulfate	100	mg/L	11/04/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1429	mg/L	11/07/2022	LCWILLIA	SM 2540C
Radium 226	2.43	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	1.11	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.54	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	6.23	SU	11/01/2022	WJK/TG	
Alkalinity	226	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	226	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	57	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	8	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	532	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	1710	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF47642 Location: GW Well POZ-6 Date: 11/01/2022 Sample Collector: WJK/TC

Loc. Code POZ-6

Time: 14:06

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	58.1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	450.0	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	3.07	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	42.9	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Lithium	8.58	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.2	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	13500	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	1.23	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	70.6	mg/L	11/09/2022	EUROFINS SAV	EPA 6010D
Magnesium	8.03	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	673.0	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	2.47	mg/L	11/10/2022	GEL	SM 5310B
Dissolved Organic Carbon	2.99	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Chloride	370	mg/L	11/08/2022	KCWELLS	EPA 300.0
Sulfate	515	mg/L	11/08/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2172	mg/L	11/07/2022	LCWILLIA	SM 2540C
Radium 226	1.76	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	-0.613	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.76	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	6.31	SU	11/01/2022	WJK/TG	
Alkalinity	303	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	303	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	3	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	6	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	13700	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	676	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF47643 **Location:** GW Well POZ-7 **Date:** 11/02/2022 **Sample Collector:** WJK/ML
Loc. Code POZ-7 **Time:** 09:42

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	132	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	13.50	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.86	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	10.9	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Lithium	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.2	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	<100	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	2.27	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	6.80	mg/L	11/09/2022	EUROFINS SAV	EPA 6010D
Magnesium	0.920	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	8.6	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	<1	mg/L	11/10/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.27	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Chloride	27.1	mg/L	11/05/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	11/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	108.8	mg/L	11/09/2022	SJBROWN	SM 2540C
Radium 226	3.04	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	1.17	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.20	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	5.02	SU	11/02/2022	WJK/ML	
Alkalinity	30.8	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	30.8	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	<50	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	10	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF47644 **Location:** GW Well POZ-7 **Date:** 11/02/2022 **Sample Collector:** WJK/ML

Loc. Code POZ-7 **DUP** **Time:** 09:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	138	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	0.7	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Calcium	14.40	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.91	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	11.4	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Lithium	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.2	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	<100	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	2.40	mg/L	11/09/2022	EUROFINS SAV	EPA 6010D
Sodium	7.19	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	0.980	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	7.4	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	<1	mg/L	11/11/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.05	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Chloride	26.7	mg/L	11/05/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	11/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	111.2	mg/L	11/09/2022	SJBROWN	SM 2540C
Radium 226	2.55	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	-0.131	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.55	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
Alkalinity	21.8	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	21.8	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	<50	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	7	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF47645 Location: GW Well POZ-8 Date: 11/01/2022 Sample Collector: WJK/TC
Loc. Code POZ-8
Time: 11:29

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	333	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	393.0	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.58	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	17.6	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Lithium	42.3	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/17/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.2	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	9740	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	4.37	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	52.1	mg/L	11/09/2022	EUROFINS SAV	EPA 6010D
Magnesium	10.2	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Manganese	714.0	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	1.12	mg/L	11/10/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.05	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/04/2022	KCWELLS	EPA 300.0
Chloride	698	mg/L	11/04/2022	KCWELLS	EPA 300.0
Sulfate	30.1	mg/L	11/04/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1986	mg/L	11/07/2022	LCWILLIA	SM 2540C
Radium 226	0.704	pCi/L	11/07/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	0.421	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.12	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	6.59	SU	11/01/2022	WJK/TG	
Alkalinity	178	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	178	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	28	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	8850	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	701	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:


Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF47653 **Location:** GW Well CCMLF-1 **Date:** 11/03/2022 **Sample Collector:** WJK/ML
Loc. Code CCMLF-1 **Time:** 10:03

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	77.8	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	21.80	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.24	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	21.1	ug/L	11/22/2022	SJHATCHÉ	EPA 6010D
Lithium	<5.00	ug/L	11/22/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/22/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.4	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	155	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	1.08	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	3.87	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	0.910	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	205.0	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	<1	mg/L	11/11/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.07	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Chloride	7.55	mg/L	11/05/2022	KCWELLS	EPA 300.0
Sulfate	7.43	mg/L	11/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	95.00	mg/L	11/09/2022	SJBROWN	SM 2540C
Radium 226	1.29	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	-0.701	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.29	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	5.78	SU	11/03/2022	WJK/ML	
Alkalinity	61.8	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	SUB_GEL	SM2320B
Bicarbonate Alkalinity	61.8	mg/L	11/14/2022	SUB_GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	181	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	198	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF47654 **Location:** GW Well CCMLF-1D **Date:** 11/03/2022 **Sample Collector:** WJK/ML

Loc. Code CCMLF-1D **Time:** 11:04

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/08/2022	EUROFINS SAV	EPA 6020B
Barium	40.3	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	51.40	mg/l	11/08/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Selenium	<10	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Boron	15.1	ug/L	11/22/2022	SJHATCHETE	EPA 6010D
Lithium	<5.00	ug/L	11/22/2022	SJHATCHETE	EPA 6010D
Molybdenum	<5.00	ug/L	11/22/2022	SJHATCHETE	EPA 6010D
Mercury	<0.6	ug/L	12/12/2022	EUROFINS SAV	EPA 7470
Iron	1100	ug/l	11/08/2022	EUROFINS SAV	EPA 6010D
Potassium	1.08	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	3.34	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	1.27	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	114.0	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	<1	mg/L	11/11/2022	GEL	SM 5310B
Dissolved Organic Carbon	1.04	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Chloride	5.82	mg/L	11/05/2022	KCWELLS	EPA 300.0
Sulfate	2.90	mg/L	11/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	166.2	mg/L	11/09/2022	SJBROWN	SM 2540C
Radium 226	2.51	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	1.06	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.57	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	6.94	SU	11/03/2022	WJK/ML	
Alkalinity	133	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	SUB_GEL	SM2320B
Bicarbonate Alkalinity	133	mg/L	11/14/2022	SUB_GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	437	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	113	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown" - Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AF47655 Location: GW Well CCMLF-2 Date: 11/02/2022 Sample Collector: WJK/ML
Loc. Code CCMLF-2
Time: 12:32

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	38.6	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	15.70	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.19	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	14.7	ug/L	11/22/2022	SJHATCHÉ	EPA 6010D
Lithium	<5.00	ug/L	11/22/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/22/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.2	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	341	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	<1	mg/L	11/09/2022	EUROFINS SAV	EPA 6010D
Sodium	4.06	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	<0.5	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Manganese	198.0	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	<1	mg/L	11/11/2022	GEL	SM 5310B
Dissolved Organic Carbon	<1	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Chloride	5.66	mg/L	11/05/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	11/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	76.25	mg/L	11/09/2022	SJBROWN	SM 2540C
Radium 226	1.34	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	2.66	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.00	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	5.64	SU	11/02/2022	WJK/ML	
Alkalinity	43.2	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	43.2	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	366	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	192	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:


Validated date:12/13/22

Linda Williams - Manager Analytical Services

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF47631 **Location:** GW Well CAP-13 **Date:** 11/02/2022 **Sample Collector:** WJK/ML

Loc. Code CAP-13 **Time:** 11:02

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	11/09/2022	EUROFINS SAV	EPA 6020B
Barium	170	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Calcium	41.60	mg/l	11/09/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	11/09/2022	EUROFINS SAV	EPA 6020B
Boron	117	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Lithium	<5.00	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Molybdenum	<5.00	ug/L	11/21/2022	SJHATCHÉ	EPA 6010D
Mercury	<0.4	ug/L	12/09/2022	EUROFINS SAV	EPA 7470
Iron	8980	ug/l	11/09/2022	EUROFINS SAV	EPA 6010D
Potassium	1.72	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Sodium	6.46	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Magnesium	2.68	mg/l	11/14/2022	EUROFINS SAV	EPA 6010D
Manganese	88.3	ug/L	11/08/2022	EUROFINS SAV	EPA 6020B
Sulfide	<0.1	mg/L	11/07/2022	GEL	EPA 9034
Total Organic Carbon	12.0	mg/L	11/11/2022	GEL	SM 5310B
Dissolved Organic Carbon	9.60	mg/L	11/10/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	11/05/2022	KCWELLS	EPA 300.0
Chloride	3.79	mg/L	11/05/2022	KCWELLS	EPA 300.0
Sulfate	70.9	mg/L	11/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	203.8	mg/L	11/09/2022	SJBROWN	SM 2540C
Radium 226	1.74	pCi/L	11/15/2022	SUB_GEL	EPA 903.1 Mod
Radium 228	1.53	pCi/L	11/10/2022	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.27	pCi/L	11/16/2022	SUB_GEL	EPA 903.1 Mod
pH	5.21	SU	11/02/2022	WJK/ML	
Alkalinity	32.4	mg/L	11/14/2022	GEL	SM 2320B
Alkalinity as CaCO ₃	<4	mg/L	11/14/2022	GEL	SM2320B
Bicarbonate Alkalinity	32.4	mg/L	11/14/2022	GEL	SM 2320B
Beryllium Dissolved	<0.5	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<2	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B
Lithium Dissolved	<5	ug/L	11/14/2022	EUROFINS SAV	EPA 6010D
Iron - Dissolved	7800	ug/L	11/10/2022	EUROFINS SAV	EPA 6020B
Manganese Dissolved	162	ug/l	11/14/2022	EUROFINS SAV	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:


Validated date:12/13/22

Linda Williams - Manager Analytical Services



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

February 21, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 568465

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 25, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

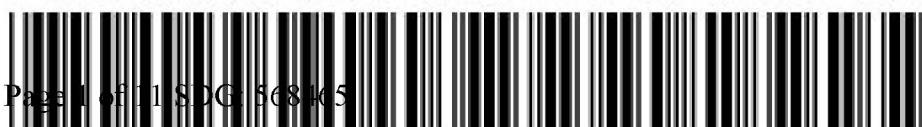
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: 367074
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 568465 GEL Work Order: 568465

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Shane Bodiford

Reviewed by _____

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 21, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24776	Project:	SOOP00119
Sample ID:	568465001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	24-JAN-22 09:54		
Receive Date:	25-JAN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.80	+/-0.952	1.34	3.00	pCi/L		JXC9	02/10/22	1047	2225013		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.44	+/-1.03			pCi/L	1	NXL1	02/21/22	1146	2225022		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.644	+/-0.386	0.507	1.00	pCi/L		LXP1	02/11/22	1011	2222580		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	Result Nominal Recovery% Acceptable Limits 85.5 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 21, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24801	Project:	SOOP00119
Sample ID:	568465002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	24-JAN-22 11:40		
Receive Date:	25-JAN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.544	+/-0.766	1.32	3.00	pCi/L		JXC9	02/10/22	1047	2225013		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.69	+/-0.940			pCi/L		1	NXL1	02/21/22	1146	2225022		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.14	+/-0.545	0.365	1.00	pCi/L		LXP1	02/11/22	1011	2222580		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: February 21, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 568465

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2225013										
Radium-228	QC1205011122	568465001	DUP								
				Uncertainty	1.80 +/-0.952	2.82 +/-1.36	pCi/L	44.1	(0% - 100%)	JXC9	02/10/22 10:46
Radium-228	QC1205011123	LCS									
				Uncertainty	48.7 +/-	36.7 +/-2.69	pCi/L	75.3	(75%-125%)		02/10/22 10:47
Radium-228	QC1205011121	MB									
				Uncertainty	U +/-0.912	0.432	pCi/L				02/10/22 10:46
Rad Ra-226											
Batch	2222580										
Radium-226	QC1205006430	568465001	DUP								
				Uncertainty	0.644 +/-0.386	0.305 +/-0.236	pCi/L	71.4	(0% - 100%)	LXP1	02/11/22 10:11
Radium-226	QC1205006433	LCS									
				Uncertainty	26.6 +/-	23.8 +/-1.77	pCi/L	89.5	(75%-125%)		02/11/22 10:55
Radium-226	QC1205006428	MB									
				Uncertainty	U +/-0.167	0.161	pCi/L				02/11/22 10:11
Radium-226	QC1205006432	MS									
				Uncertainty	134 +/-0.386	0.644 +/-9.69	pCi/L	99.6	(75%-125%)		02/11/22 10:55

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

GEL LABORATORIES LLC
 2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **568465**

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 568465

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 44

Analytical Batch: 2225022

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
568465001	AF24776
568465002	AF24801

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2225013

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
568465001	AF24776
568465002	AF24801
1205011121	Method Blank (MB)
1205011122	568465001(AF24776) Sample Duplicate (DUP)
1205011123	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2222580

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
568465001	AF24776
568465002	AF24801
1205006428	Method Blank (MB)
1205006430	568465001(AF24776) Sample Duplicate (DUP)
1205006432	568465001(AF24776) Matrix Spike (MS)
1205006433	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Aliquots for the matrix spikes, 1205006432 (AF24776MS), were reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody

568463

548465

 santee cooper®
Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecoop.com

1 / 1

121567 / JM02.09.601 / 36500

Yes No

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJ Brown	35594	1/25/22	0908	JAD	GEC	1/25/22	0908
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
JAD	661	1-25-22	1547	JES	661	1-25-22	0935
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDGAR/COC/Work Order: 368463 / 568465
Received By: BE	Date Received: 1-25-22
Carrier and Tracking Number <input checked="" type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Other	
Suspected Hazard Information <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <p>* If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.</p>	
A) Shipped as a DOT Hazardous? <input checked="" type="checkbox"/> <p>Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
B) Did the client designate the samples are to be received as radioactive? <input checked="" type="checkbox"/> <p>COC notation or radioactive stickers on containers equal client designation.</p>	
C) Did the RSO classify the samples as radioactive? <input checked="" type="checkbox"/> <p>Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3</p>	
D) Did the client designate samples are hazardous? <input checked="" type="checkbox"/> <p>COC notation or hazard labels on containers equal client designation.</p> <p>If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:</p>	
E) Did the RSO identify possible hazards?	
Sample Receipt Criteria <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <p>Comments/Qualifiers (Required for Non-Conforming Items)</p>	
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/> Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/> Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/> Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/> Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/> If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/> ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/> ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/> Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/> Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/> Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):	

PM (or PMA) review: Initials **G.B** Date **1/26/22** Page **1** of **1**

List of current GEL Certifications as of 21 February 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



PO Box 30712 Charleston, SC 29417

2040 Savage Road Charleston, SC 29407

P 843.556.8171

F 843.766.1178

gel.com

February 25, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 569102

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 01, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

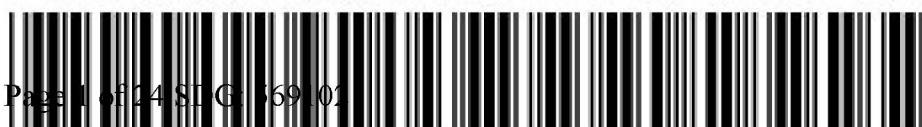
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: 367074
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 569102 GEL Work Order: 569102

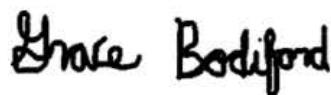
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.



Reviewed by _____

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24803	Project:	SOOP00119
Sample ID:	569102001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	25-JAN-22 12:22		
Receive Date:	01-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.858	+/-0.929	1.55	3.00	pCi/L		JXC9	02/10/22	1047	2225013		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.41	+/-0.976			pCi/L		1	NXL1	02/21/22	1146	2225022		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.555	+/-0.299	0.283	1.00	pCi/L		LXP1	02/20/22	0740	2225000		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	87.1 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24805	Project:	SOOP00119
Sample ID:	569102002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	25-JAN-22 15:04		
Receive Date:	01-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	1.36	+/-1.17	1.91	3.00	pCi/L		JXC9	02/10/22	1047	2225013		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.74	+/-1.20			pCi/L		1	NXL1	02/21/22	1146	2225022		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.375	+/-0.260	0.346	1.00	pCi/L		LXP1	02/20/22	0740	2225000		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	87.3 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24806	Project:	SOOP00119
Sample ID:	569102007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	26-JAN-22 10:30		
Receive Date:	01-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.924	+/-0.765	1.20	3.00	pCi/L		JXC9	02/10/22	1047	2225013	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.20	+/-0.885			pCi/L	1	NXL1	02/21/22	1146	2225022	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.27	+/-0.446	0.479	1.00	pCi/L		LXP1	02/20/22	0740	2225000	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	Result Nominal Recovery% Acceptable Limits 88.1 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24807	Project:	SOOP00119
Sample ID:	569102008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	26-JAN-22 10:35		
Receive Date:	01-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.33	+/-0.994	1.32	3.00	pCi/L		JXC9	02/10/22	1047	2225013		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.28	+/-1.06			pCi/L	1	NXL1	02/21/22	1146	2225022		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.950	+/-0.357	0.251	1.00	pCi/L		LXP1	02/20/22	0740	2225000		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: February 25, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 569102

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2225013										
Radium-228	QC1205011122	568465001	DUP								
				1.80	2.82	pCi/L	44.1	(0% - 100%)	JXC9	02/10/22	10:46
			Uncertainty	+/-0.952	+/-1.36						
Radium-228	QC1205011123	LCS									
			48.7		36.7	pCi/L	75.3	(75%-125%)		02/10/22	10:47
			Uncertainty		+/-2.69						
Radium-228	QC1205011121	MB									
				U	0.432	pCi/L				02/10/22	10:46
			Uncertainty		+/-0.912						
Rad Ra-226											
Batch	2225000										
Radium-226	QC1205011125	569102001	DUP								
				0.555	U	pCi/L	39.5	(0% - 100%)	LXP1	02/20/22	07:40
			Uncertainty	+/-0.299	+/-0.271						
Radium-226	QC1205011127	LCS									
			26.7		30.3	pCi/L	114	(75%-125%)		02/20/22	07:40
			Uncertainty		+/-2.04						
Radium-226	QC1205011124	MB									
				U	0.301	pCi/L				02/20/22	07:40
			Uncertainty		+/-0.314						
Radium-226	QC1205011126	MS									
			131	0.555	106	pCi/L	80.2	(75%-125%)		02/20/22	07:40
			Uncertainty	+/-0.299	+/-7.74						

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

QC Summary

Workorder: 569102

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Santee Cooper
SDG #: 569102

General Chemistry

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 20

Analytical Batch: 2224933

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569102001	AF24803
569102002	AF24805
569102003	AF24799
569102004	AF24800
569102005	AF24804
569102006	AF24802
569102007	AF24806
569102008	AF24807
1205010943	Method Blank (MB)
1205010944	Laboratory Control Sample (LCS)
1205010945	569102008(AF24807) Sample Duplicate (DUP)
1205010946	569102008(AF24807) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Radiochemistry

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 44

Analytical Batch: 2225022

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569102001	AF24803
569102002	AF24805
569102007	AF24806
569102008	AF24807

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2225013

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569102001	AF24803
569102002	AF24805
569102007	AF24806
569102008	AF24807
1205011121	Method Blank (MB)
1205011122	568465001(AF24776) Sample Duplicate (DUP)
1205011123	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2225000

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569102001	AF24803
569102002	AF24805
569102007	AF24806
569102008	AF24807
1205011124	Method Blank (MB)
1205011125	569102001(AF24803) Sample Duplicate (DUP)

1205011126	569102001(AF24803) Matrix Spike (MS)
1205011127	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205011126 (AF24803MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 2 / 8 / 22 Send report to lcwillia@santeecoop.com & sjbrown@santeecoop.com

Chain of Custody

569102



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecoop.com

/ /

121567 / JM02.09.G01 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOC	RAD 226	RAD 228	TOTAL RAD CALC.
AF24803	POZ-4	1/25/22	1222	EAT BSB	3	P/G	G	GW	2/14		1	1	1	X
805	POZ-6	1	1504	1	3	P/G	1	1	1		1	1	1	X
AF24799	CLF1B-5	1/25/22	1006	1	1	G	1	1	1/4		1			
AF24800	CLF1B-5D	1	1101	1	1	G	1	1	1/4		1			
1 804	POZ-5D	1	1324	1	1	G	1	1	1		1			
AF24802	POZ-3	1/26/22	1342	1	1	G	1	1	1		1			
AF24806	POZ-7	1	1030	1	3	P/G	1	1	2/14		1	1	1	X
1 807	POZ-7 DUP	1	1035	1	3	1	1	1	1		1	1	1	X

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SGM brown	35594	2/1/22	0941	JPL	GEL	2/1/22	0941
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
100	161	2/1/22	1629	JPL	GEL	2/1/22	1629

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb		<input type="checkbox"/> BTEX	Wallboard	<input type="checkbox"/> Ultimate	Ammonia	Trans. Oil Crude
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se		<input type="checkbox"/> DOC	Gypsum (all below)	<input type="checkbox"/> % Moisture	LOI	Crude Oil
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn		<input type="checkbox"/> TP	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Ash	% Carbon	Mineral Oil
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr		<input type="checkbox"/> TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> Sulfur	Mineral	Distilled
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti		<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> BTUs	Analysis	Distillate
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl		<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	IP-1
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> CHN	% Moisture	Alkylated Gasoline
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Other Tests:	NPDES	Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg		<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> XRF Scan	Oil & Grease	Lubricants
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> HGI	As	Metals
					<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> Dissolved	<input type="checkbox"/> Fineness	Crude
					<input type="checkbox"/> Rad 226	<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particulate Matter	Gasoline
							<input type="checkbox"/> TSS	Gasoline
								Gasoline
								Gasoline

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid,

C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 569102/569097/569111/569098/569100																																																																																				
Received By: BE	Date Received: 2-1-22																																																																																				
Carrier and Tracking Number																																																																																					
<table border="0"> <tr> <td><input type="checkbox"/> FedEx Express</td> <td><input type="checkbox"/> FedEx Ground</td> <td><input type="checkbox"/> UPS</td> <td><input type="checkbox"/> Field Services</td> <td><input checked="" type="checkbox"/> Courier</td> <td><input type="checkbox"/> Other</td> </tr> </table>		<input type="checkbox"/> FedEx Express	<input type="checkbox"/> FedEx Ground	<input type="checkbox"/> UPS	<input type="checkbox"/> Field Services	<input checked="" type="checkbox"/> Courier	<input type="checkbox"/> Other																																																																														
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<p>Suspected Hazard Information</p> <table border="0"> <tr> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td>*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.</td> </tr> </table> <p>A) Shipped as a DOT Hazardous? <input checked="" type="checkbox"/></p> <p>B) Did the client designate the samples are to be received as radioactive? <input checked="" type="checkbox"/></p> <p>C) Did the RSO classify the samples as radioactive? <input checked="" type="checkbox"/></p> <p>D) Did the client designate samples are hazardous? <input checked="" type="checkbox"/></p> <p>E) Did the RSO identify possible hazards? <input checked="" type="checkbox"/></p>		<input type="checkbox"/> Yes	<input type="checkbox"/> No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.																																																																																	
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Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? 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List of current GEL Certifications as of 25 February 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 04, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 569496

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 04, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

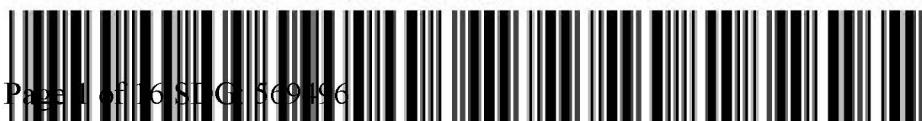
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: 367074
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 569496 GEL Work Order: 569496

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Shane Bodiford

Reviewed by _____

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24788	Project:	SOOP00119
Sample ID:	569496001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 11:50		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		5.86	+/-1.45	1.66	3.00	pCi/L		JXC9	03/04/22	0848	2227107		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.81	+/-1.51			pCi/L		NXL1	03/04/22	1032	2227108		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.954	+/-0.443	0.528	1.00	pCi/L		LXP1	02/28/22	1055	2227106		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24789	Project:	SOOP00119
Sample ID:	569496002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 12:42		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.33	+/-0.961	1.26	3.00	pCi/L		JXC9	03/04/22	0848	2227107	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.40	+/-1.05			pCi/L		NXL1	03/04/22	1032	2227108	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.07	+/-0.423	0.366	1.00	pCi/L		LXP1	02/28/22	0814	2227106	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24790	Project:	SOOP00119
Sample ID:	569496003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 12:47		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.46	+/-1.13	1.62	3.00	pCi/L		JXC9	03/04/22	0848	2227107	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.01	+/-1.18			pCi/L		NXL1	03/04/22	1032	2227108	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.555	+/-0.333	0.427	1.00	pCi/L		LXP1	02/28/22	0814	2227106	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24791	Project:	SOOP00119
Sample ID:	569496004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 14:21		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		5.39	+/-1.32	1.42	3.00	pCi/L		JXC9	03/04/22	0849	2227107		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.17	+/-1.38			pCi/L		NXL1	03/04/22	1032	2227108		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.784	+/-0.394	0.459	1.00	pCi/L		LXP1	02/28/22	0814	2227106		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	Result Nominal Recovery% Acceptable Limits 89.6 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24792	Project:	SOOP00119
Sample ID:	569496005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 15:17		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.60	+/-1.54	2.27	3.00	pCi/L		JXC9	03/04/22	0849	2227107	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.85	+/-1.60			pCi/L		NXL1	03/04/22	1032	2227108	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.25	+/-0.440	0.383	1.00	pCi/L		LXP1	02/28/22	0814	2227106	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24793	Project:	SOOP00119
Sample ID:	569496006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 16:27		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.92	+/-1.26	1.80	3.00	pCi/L		JXC9	03/04/22	0849	2227107	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.44	+/-1.33			pCi/L		NXL1	03/04/22	1032	2227108	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.525	+/-0.402	0.606	1.00	pCi/L		LXP1	02/28/22	0814	2227106	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 4, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24808	Project:	SOOP00119
Sample ID:	569496007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	31-JAN-22 10:29		
Receive Date:	04-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.49	+/-1.02	1.58	3.00	pCi/L		JXC9	03/04/22	0849	2227107	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.64	+/-1.05			pCi/L		NXL1	03/04/22	1032	2227108	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.152	+/-0.259	0.469	1.00	pCi/L		LXP1	02/28/22	0848	2227106	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 4, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 569496

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2227107										
Radium-228	QC1205015371	569496001	DUP								
				5.86	pCi/L	83.8		(0% - 100%)	JXC9	03/04/22	08:47
			Uncertainty	+/-1.45							
Radium-228	QC1205015372	LCS									
			47.3		pCi/L	89.7		(75%-125%)		03/04/22	08:48
			Uncertainty								
Radium-228	QC1205015370	MB									
				U	pCi/L					03/04/22	08:47
			Uncertainty								
Rad Ra-226											
Batch	2227106										
Radium-226	QC1205015366	569496001	DUP								
				0.954	pCi/L	8.31		(0% - 100%)	LXP1	02/28/22	11:30
			Uncertainty	+/-0.443							
Radium-226	QC1205015368	LCS									
			26.4		pCi/L	94.5		(75%-125%)		02/28/22	08:48
			Uncertainty								
Radium-226	QC1205015365	MB									
				U	pCi/L					02/28/22	08:48
			Uncertainty								
Radium-226	QC1205015367	MS									
			170		pCi/L	82.8		(75%-125%)		02/28/22	08:48
			Uncertainty	+/-0.443							

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

GEL LABORATORIES LLC
 2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **569496**

Page **2 of 2**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 569496

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2227107

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569496001	AF24788
569496002	AF24789
569496003	AF24790
569496004	AF24791
569496005	AF24792
569496006	AF24793
569496007	AF24808
1205015370	Method Blank (MB)
1205015371	569496001(AF24788) Sample Duplicate (DUP)
1205015372	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Samples were recounted to verify sample results. Recounts are reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2227106

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
569496001	AF24788
569496002	AF24789
569496003	AF24790
569496004	AF24791

569496005	AF24792
569496006	AF24793
569496007	AF24808
1205015365	Method Blank (MB)
1205015366	569496001(AF24788) Sample Duplicate (DUP)
1205015367	569496001(AF24788) Matrix Spike (MS)
1205015368	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205015367 (AF24788MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody

5694196

 **santee cooper®**
 Santee Cooper
 One Riverwood Drive
 Moncks Corner, SC 29461
 Phone: (843)761-8000 Ext. 5148
 Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LOWIULIA

[@santeecoop.com](http://santeecoop.com)

1 1 1

121567 / JM02.09.G01 / 36500

Yes No

15 No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
B. Brown	35594	2/4/22	1117	R. S. Shl	GEL	2/4/22	1117
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
R. S. Shl		2/4/22	1255				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ **Initial:** _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb						Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	TOC	<input type="checkbox"/> BTEX	Wallboard	<input type="checkbox"/> Ultimate	Ammonia	Minerals
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	DOC	<input type="checkbox"/> Naphthalene	Gypsum (all below)	<input type="checkbox"/> % Moisture	LOI	Asbestos
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	TP/TPO4	<input type="checkbox"/> THM/HAA	AlM	<input type="checkbox"/> Ash	% Carbon	Crude Oil
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	NH3-N	<input type="checkbox"/> VOC	TOC	<input type="checkbox"/> Sulfur	Mineral	Acid Rain
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	F	<input type="checkbox"/> Oil & Grease	Total metals	<input type="checkbox"/> BTUs	Analysis	Diesel Fuel
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	Cl	<input type="checkbox"/> E. Coli	Soluble Metals	<input type="checkbox"/> Volatile Matter	Sieve	Disolved Gases
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	NO2	<input type="checkbox"/> Total Coliform	Purity (CaSO4)	<input type="checkbox"/> CHN	% Moisture	Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	Br	<input type="checkbox"/> pH	% Moisture	Other Tests:		Industrial
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	NO3	<input type="checkbox"/> Dissolved As	Sulfate	<input type="checkbox"/> XRF Scan		Metals (all)
			SO4	<input type="checkbox"/> Dissolved Fe	pH	<input type="checkbox"/> HGI		(As, Cd, Cu, Ni, Pb)
				<input type="checkbox"/> Rad 226	Chlorides	<input type="checkbox"/> Fineness	Oil & Grease	
				<input type="checkbox"/> Rad 228	Particle Size	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> As	
				<input type="checkbox"/> PCB	Sulfur		UTSS	COFR



Laboratories LLC

JAR

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/CO/COC/Work Order: 569496																																																																																																		
Received By: DC	Date Received: 2-4-22																																																																																																		
<input type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Field Services <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Other <i>GIB 2/17/22</i>																																																																																																			
Carrier and Tracking Number																																																																																																			
Suspected Hazard Information <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.																																																																																																			
A) Shipped as a DOT Hazardous? <input checked="" type="checkbox"/> B) Did the client designate the samples are to be received as radioactive? <input checked="" type="checkbox"/> C) Did the RSO classify the samples as radioactive? <input checked="" type="checkbox"/> D) Did the client designate samples are hazardous? <input checked="" type="checkbox"/> E) Did the RSO identify possible hazards? <input checked="" type="checkbox"/>																																																																																																			
Sample Receipt Criteria <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Yes</th> <th style="width: 10%;">N/A</th> <th style="width: 10%;">No</th> <th colspan="4">Comments/Qualifiers (Required for Non-Conforming Items)</th> </tr> </thead> <tbody> <tr> <td>1 Shipping containers received intact and sealed?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Circle Applicable: Seals broken Damaged container Leaking container Other (describe)</td> </tr> <tr> <td>2 Chain of custody documents included with shipment?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Circle Applicable: Client contacted and provided COC COC created upon receipt</td> </tr> <tr> <td>3 Samples requiring cold preservation within (0 ≤ 6 deg. C)*?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 30</td> </tr> <tr> <td>4 Daily check performed and passed on IR temperature gun?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Temperature Device Serial #: JR6-21 Secondary Temperature Device Serial # (If Applicable):</td> </tr> <tr> <td>5 Sample containers intact and sealed?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Circle Applicable: Seals broken Damaged container Leaking container Other (describe)</td> </tr> <tr> <td>6 Samples requiring chemical preservation at proper pH?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Sample ID's and Containers Affected: If Preservation added, Lot#:</td> </tr> <tr> <td>7 Do any samples require Volatile Analysis?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">If Yes, are Encores or Soil Kits present for solids? Yes _____ No _____ NA _____ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes _____ No _____ NA _____ (If unknown, select No) Are liquid VOA vials free of headspace? Yes _____ No _____ NA _____ Sample ID's and containers affected:</td> </tr> <tr> <td>8 Samples received within holding time?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">ID's and tests affected:</td> </tr> <tr> <td>9 Sample ID's on COC match ID's on bottles?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">ID's and containers affected:</td> </tr> <tr> <td>10 Date & time on COC match date & time on bottles?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)</td> </tr> <tr> <td>11 Number of containers received match number indicated on COC?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Circle Applicable: No container count on COC Other (describe)</td> </tr> <tr> <td>12 Are sample containers identifiable as GEL provided by use of GEL labels?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4"></td> </tr> <tr> <td>13 COC form is properly signed in relinquished/received sections?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4">Circle Applicable: Not relinquished Other (describe)</td> </tr> </tbody> </table>		Yes	N/A	No	Comments/Qualifiers (Required for Non-Conforming Items)				1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)				2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt				3 Samples requiring cold preservation within (0 ≤ 6 deg. C)*?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 30				4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: JR6-21 Secondary Temperature Device Serial # (If Applicable):				5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)				6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:				7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? 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6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:																																																																																																
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes _____ No _____ NA _____ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes _____ No _____ NA _____ (If unknown, select No) Are liquid VOA vials free of headspace? Yes _____ No _____ NA _____ Sample ID's and containers affected:																																																																																																
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Comments (Use Continuation Form if needed):																																																																																																			

PM (or PMA) review: Initials **GIB** Date **2/17/22** Page **1** of **1**

List of current GEL Certifications as of 04 March 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 10, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 570125

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 11, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

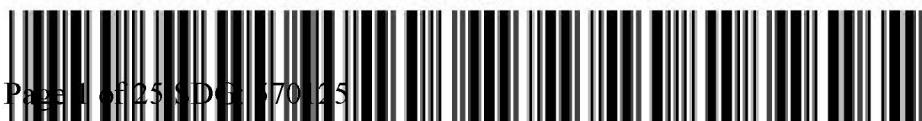
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: 367074
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 570125 GEL Work Order: 570125

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Shane Bodiford

Reviewed by _____

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24764	Project:	SOOP00119
Sample ID:	570125001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	03-FEB-22 10:38		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.03	+/-0.993	1.63	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.46	+/-1.03			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.427	+/-0.265	0.315	1.00	pCi/L		LXP1	03/07/22	0942	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			90.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24765	Project:	SOOP00119
Sample ID:	570125002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	03-FEB-22 12:10		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		12.1	+/-1.86	1.59	3.00	pCi/L		JXC9	03/10/22	0852	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		17.2	+/-2.01			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		5.19	+/-0.755	0.364	1.00	pCi/L		LXP1	03/07/22	0942	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24766	Project:	SOOP00119
Sample ID:	570125003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	03-FEB-22 13:16		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.00600	+/-0.741	1.39	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.534	+/-0.813			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.528	+/-0.335	0.474	1.00	pCi/L		LXP1	03/07/22	0942	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			103	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24767	Project:	SOOP00119
Sample ID:	570125004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	03-FEB-22 14:30		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.57	+/-0.962	1.45	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.02	+/-1.01			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.447	+/-0.292	0.399	1.00	pCi/L		LXP1	03/07/22	0942	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			93.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24763	Project:	SOOP00119
Sample ID:	570125005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	07-FEB-22 16:02		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.923	+/-1.27	2.16	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.22	+/-1.29			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.295	+/-0.263	0.410	1.00	pCi/L		LXP1	03/07/22	0942	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24761	Project:	SOOP00119
Sample ID:	570125006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	07-FEB-22 09:51		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.45	+/-1.07	1.53	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.00	+/-1.11			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.552	+/-0.269	0.235	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			102	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Contact: Moncks Corner, South Carolina 29461
 Project: Ms. Jeanette Gilmetti
 ABS Lab Analytical

Client Sample ID:	AF24768	Project:	SOOP00119
Sample ID:	570125007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	08-FEB-22 11:53		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.0876	+/-0.673	1.26	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.585	+/-0.728			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.498	+/-0.276	0.340	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			98.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24769	Project:	SOOP00119
Sample ID:	570125008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	08-FEB-22 13:03		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.10	+/-1.06	1.76	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.79	+/-1.11			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.687	+/-0.326	0.367	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			101	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

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Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24770	Project:	SOOP00119
Sample ID:	570125009	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	08-FEB-22 13:08		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.83	+/-0.948	1.13	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.39	+/-0.979			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.557	+/-0.243	0.194	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			97.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24771	Project:	SOOP00119
Sample ID:	570125010	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	08-FEB-22 14:05		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.62	+/-1.13	1.78	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.85	+/-1.14			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.224	+/-0.174	0.214	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			93.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24779	Project:	SOOP00119
Sample ID:	570125011	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	08-FEB-22 16:04		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.0778	+/-0.706	1.33	3.00	pCi/L		JXC9	03/08/22	1200	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.374	+/-0.739			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.296	+/-0.217	0.297	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			95	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24781	Project:	SOOP00119
Sample ID:	570125012	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	09-FEB-22 13:36		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.641	+/-1.07	1.85	3.00	pCi/L		JXC9	03/08/22	1201	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.24	+/-1.11			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.604	+/-0.295	0.338	1.00	pCi/L		LXP1	03/07/22	1014	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			92.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24782	Project:	SOOP00119
Sample ID:	570125013	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	09-FEB-22 11:25		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.64	+/-1.28	1.93	3.00	pCi/L		JXC9	03/08/22	1201	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.54	+/-1.33			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.894	+/-0.334	0.276	1.00	pCi/L		LXP1	03/07/22	1046	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			100	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24786	Project:	SOOP00119
Sample ID:	570125014	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	09-FEB-22 10:17		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.112	+/-0.879	1.61	3.00	pCi/L			JXC9	03/08/22	1201	2229406	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.678	+/-0.930			pCi/L			NXL1	03/10/22	1050	2229405	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.566	+/-0.304	0.379	1.00	pCi/L			LXP1	03/07/22	1046	2229392	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			99.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 10, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24787	Project:	SOOP00119
Sample ID:	570125015	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	09-FEB-22 12:35		
Receive Date:	11-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.290	+/-0.441	0.987	3.00	pCi/L		JXC9	03/08/22	1201	2229406	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.268	+/-0.509			pCi/L		NXL1	03/10/22	1050	2229405	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.268	+/-0.254	0.399	1.00	pCi/L		LXP1	03/07/22	1046	2229392	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			103	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 10, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 570125

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2229406										
Radium-228	QC1205019478	570125001	DUP								
		U	1.03	U	0.639	pCi/L	N/A				
		Uncertainty	+/-0.993		+/-0.929						
Radium-228	QC1205019479	LCS									
		47.6			38.1	pCi/L	80.1	(75%-125%)			
		Uncertainty			+/-3.24						
Radium-228	QC1205019477	MB									
		U	1.24		pCi/L						
		Uncertainty	+/-1.05								
Rad Ra-226											
Batch	2229392										
Radium-226	QC1205019442	570125001	DUP								
		0.427	U	0.174	pCi/L	83.9	(0% - 100%)	LXP1			
		Uncertainty	+/-0.265	+/-0.147							
Radium-226	QC1205019444	LCS									
		26.5		23.4	pCi/L	88.4	(75%-125%)				
		Uncertainty		+/-1.63							
Radium-226	QC1205019441	MB									
		U	0.245		pCi/L						
		Uncertainty	+/-0.226								
Radium-226	QC1205019443	570125001	MS								
		131	0.427	105	pCi/L	79.6	(75%-125%)				
		Uncertainty	+/-0.265	+/-7.64							

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

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QC Summary

Workorder: 570125

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 570125

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2229406

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
570125001	AF24764
570125002	AF24765
570125003	AF24766
570125004	AF24767
570125005	AF24763
570125006	AF24761
570125007	AF24768
570125008	AF24769
570125009	AF24770
570125010	AF24771
570125011	AF24779
570125012	AF24781
570125013	AF24782
570125014	AF24786
570125015	AF24787
1205019477	Method Blank (MB)
1205019478	570125001(AF24764) Sample Duplicate (DUP)
1205019479	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Sample 1205019479 (LCS) was recounted due to low recovery. The recount is reported. Sample 570125002 (AF24765) was re-eluted and recounted to verify sample result. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2229392

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
570125001	AF24764
570125002	AF24765
570125003	AF24766
570125004	AF24767
570125005	AF24763
570125006	AF24761
570125007	AF24768
570125008	AF24769
570125009	AF24770
570125010	AF24771
570125011	AF24779
570125012	AF24781
570125013	AF24782
570125014	AF24786
570125015	AF24787
1205019441	Method Blank (MB)
1205019442	570125001(AF24764) Sample Duplicate (DUP)
1205019443	570125001(AF24764) Matrix Spike (MS)
1205019444	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205019443 (AF24764MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody

570125



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com

121567 / JMD2.09.G.81 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226	RAD 228	TOTAL RAD CALC.
AF24764	CAP-4	2/3/22	1038	NDS/BB	2	P	G	GW	2		X	X	X
65	CAP-5		1210										
66	CAP-6		1316										
67	CAP-7		1430										
AF24763	CAP-3	2/7/22	1602	BRT/BB									
61	CAP-1	1	0951	1									
AF24768	CAP-8	2/8/22	1153										
69	CAP-9		1308										
70	CAP-9 DUP		1308										
71	CAP-10		1405										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SP Brown	35594	2/11/22	0944		GEL	2/11/22	0944
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb		<input type="checkbox"/> BTEX	Wallboard	Ultimate	<input type="checkbox"/> Ammonia	Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se		<input type="checkbox"/> DOC	Gypsum (see below)	% Moisture	<input type="checkbox"/> LOI	Water content
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn		<input type="checkbox"/> TP/TPO4	AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr		<input type="checkbox"/> NH3-N	TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti		<input type="checkbox"/> F	Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	Dissolved metals
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl		<input type="checkbox"/> Cl	Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	IFR
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> NO2	Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	Dissolved alkalies
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> Br	% Manganese	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Flyash	Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg		<input type="checkbox"/> NO3	Sulfates	<input type="checkbox"/> HGI	<input type="checkbox"/> Oil & Grease	Flammable
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> SO4	pH	<input type="checkbox"/> Fineness	<input type="checkbox"/> As	Bottom ash
					Chlorides	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> TSS	Hg
					Particle Size			Crusher
					Sulfur			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid,

Page 22 of 25 SPC 570125

Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6-Other (Specify)

Chain of Custody

570125

Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

[@santee.cooper.com](http://santee.cooper.com)

121567 / JM02.09.681 / 36500

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Brown	35594	2/11/22	0944	<i>LSD</i>	GEL	2/11/22	0944
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>MM</i>	6051	2-11-22	1033	<i>AT</i>	12 EL	2/11/22	1033
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

□ METALS (all)			□ Nutrients			□ MISC.			□ Gypsum			□ Coal			□ Flyash			□ Oil		
□ Ag	□ Cu	□ Sb				□ BTEX			□ Wallboard			□ Ultimate			Ammonia		Frac. Oil/Oil			
□ Al	□ Fe	□ Se	□ TOC			□ Naphthalene			□ Gypsum (all below)			□ % Moisture			LOI		Total Solids			
□ As	□ K	□ Sn	□ DOC			□ THM/HAA			□ AIM			□ Ash			% Carbon		Cation			
□ B	□ Li	□ Sr	□ TP/TPO4			□ VOC			□ TOC			□ Sulfur			Mineral Analysis		Acidity			
□ Ba	□ Mg	□ Ti	□ NH3-N			□ Oil & Grease			□ Total metals			□ BTUs			Sieve		Dissolved Strength			
□ Be	□ Mn	□ Tl	□ P			□ E. Coli			□ Soluble Metals			□ Volatile Matter			% Moisture		H.F.			
□ Ca	□ Mo	□ V	□ Cl			□ Total Coliform			□ Purity (CaSO4)			□ CHN			Used Oil		Dissolved Glass			
□ Cd	□ Na	□ Zn	□ NO2			□ pH			□ % Moisture			Other Tests:			XRP Scan		Paintment			
□ Co	□ Ni	□ Hg	□ Br			□ Dissolved As			□ Sulfur			□ XRP Scan			HGI		Metals in soil			
□ Cr	□ Pb	□ CrVI	□ NO3			□ Dissolved Fe			□ pH			□ HGI			Fineness		Cr, Cu, Cd, Ni, Pb			
			□ SO4			□ Rad 226			□ Chlorides			□ Particulate Matter			Oil & Grease		Heavy			
						□ Rad 228			□ Particle Size			□ Particulate Matter			As		T.S.			
						□ PCB			□ Sulfur			□ Particulate Matter			TSS		Cr, Ni, Pb			



Laboratories LLC

JAR

SAMPLE RECEIPT & REVIEW FORM

Client: 500 P	SDG/AR/COC/Work Order: 570124/570125/570126/570128/570129/570134								
Received By: PG	Date Received: 2/14/22								
Carrier and Tracking Number		Circle Applicable:							
		FedEx Express	FedEx Ground	UPS	Field Services	<input checked="" type="radio"/> Courier	Other		
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.					
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>		Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input type="checkbox"/>					
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>		COC notation or radioactive stickers on containers equal client designation.					
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3					
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>		COC notation or hazard labels on containers equal client designation.					
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:					
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)				
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)				
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>				Circle Applicable: Client contacted and provided COC COC created upon receipt				
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>				Preservation Method: Wet Ice/ Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3				
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>				Temperature Device Serial #: 1122-2 Secondary Temperature Device Serial # (If Applicable):				
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)				
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>				Sample ID's and Containers Affected: If Preservation added, Lot#: If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA				
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>				Sample ID's and containers affected:				
8 Samples received within holding time?	<input checked="" type="checkbox"/>				ID's and tests affected:				
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>				ID's and containers affected:				
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)				
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>				Circle Applicable: No container count on COC Other (describe)				
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>								
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>				Circle Applicable: Not relinquished Other (describe)				
Comments (Use Continuation Form if needed):									

PM (or PMA) review: Initials NTG Date 2/14/22 Page 1 of 1

List of current GEL Certifications as of 10 March 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 12, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 570506

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 15, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

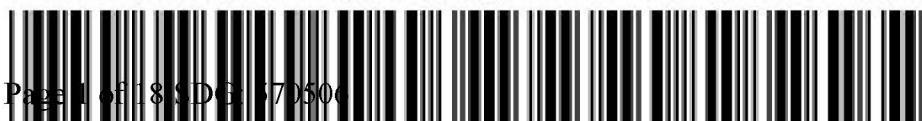
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Grace Bodiford for
Julie Robinson
Project Manager

Purchase Order: 367074
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 570506 GEL Work Order: 570506

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Shane Bodiford

Reviewed by _____

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF24785 Project: SOOP00119
Sample ID: 570506006 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 10-FEB-22 15:40
Receive Date: 15-FEB-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	----	---------	------	------	-------	--------

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 12, 2022

Page 1 of 1

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 570506

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24780	Project:	SOOP00119
Sample ID:	570506001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-FEB-22 09:52		
Receive Date:	15-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.985	+/-1.69	2.96	3.00	pCi/L		JXC9	03/11/22	1044	2232146		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.54	+/-1.73			pCi/L		1	TON1	03/12/22	0945	2232161		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.558	+/-0.385	0.528	1.00	pCi/L		LXP1	03/06/22	0902	2232145		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			47.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24777	Project:	SOOP00119
Sample ID:	570506002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-FEB-22 11:42		
Receive Date:	15-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.41	+/-1.43	2.16	3.00	pCi/L		JXC9	03/11/22	1044	2232146		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.27	+/-1.48			pCi/L	1	TON1	03/12/22	0945	2232161		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.860	+/-0.390	0.459	1.00	pCi/L		LXP1	03/06/22	0902	2232145		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24778	Project:	SOOP00119
Sample ID:	570506003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-FEB-22 12:45		
Receive Date:	15-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	2.40	+/-1.86	2.95	3.00	pCi/L		JXC9	03/11/22	1044	2232146		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.72	+/-1.88			pCi/L		1 TON1	03/12/22	0945	2232161		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.326	+/-0.271	0.401	1.00	pCi/L		LXP1	03/06/22	0902	2232145		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			47.2	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24783	Project:	SOOP00119
Sample ID:	570506004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-FEB-22 14:28		
Receive Date:	15-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	2.36	+/-1.83	2.90	3.00	pCi/L		JXC9	03/11/22	1044	2232146		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.04	+/-1.87			pCi/L		1	TON1	03/12/22	0945	2232161		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.678	+/-0.390	0.514	1.00	pCi/L		LXP1	03/06/22	0902	2232145		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			46.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24784	Project:	SOOP00119
Sample ID:	570506005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-FEB-22 14:33		
Receive Date:	15-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.529	+/-1.55	2.80	3.00	pCi/L		JXC9	03/11/22	1044	2232146		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.04	+/-1.58			pCi/L	1	TON1	03/12/22	0945	2232161		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.507	+/-0.333	0.446	1.00	pCi/L		LXP1	03/06/22	0902	2232145		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			51.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 12, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF24785	Project:	SOOP00119
Sample ID:	570506006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-FEB-22 15:40		
Receive Date:	15-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.424	+/-1.68	2.98	3.00	pCi/L		JXC9	03/11/22	1045	2232146	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.30	+/-1.73			pCi/L	1	TON1	03/12/22	0945	2232161	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.878	+/-0.426	0.462	1.00	pCi/L		LXP1	03/06/22	0935	2232145	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			39	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 12, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 570506

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2232146										
Radium-228	QC1205024390	570506001	DUP								
				U	0.985	3.87	pCi/L	119*	(0% - 100%)	JXC9	03/11/22 10:44
				Uncertainty	+/-1.69	+/-2.04					
Radium-228	QC1205024391	LCS									
				48.1		51.5	pCi/L	107	(75%-125%)		03/11/22 10:44
				Uncertainty		+/-4.43					
Radium-228	QC1205024389	MB									
				U	2.20	pCi/L					03/11/22 10:43
				Uncertainty	+/-1.51						
Rad Ra-226											
Batch	2232145										
Radium-226	QC1205024393	570506002	DUP								
				U	0.860	1.36	pCi/L	45	(0% - 100%)	LXP1	03/06/22 09:35
				Uncertainty	+/-0.390	+/-0.533					
Radium-226	QC1205024395	LCS									
				26.6		21.3	pCi/L	80.3	(75%-125%)		03/06/22 09:35
				Uncertainty		+/-1.73					
Radium-226	QC1205024392	MB									
				U	0.293	pCi/L					03/06/22 09:35
				Uncertainty	+/-0.249						
Radium-226	QC1205024394	570506002	MS								
				132	0.860	121	pCi/L	90.7	(75%-125%)		03/06/22 09:35
				Uncertainty	+/-0.390	+/-8.76					

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

GEL LABORATORIES LLC
 2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 570506

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Santee Cooper
SDG #: 570506

Radiochemistry

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 44

Analytical Batch: 2232161

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
570506001	AF24780
570506002	AF24777
570506003	AF24778
570506004	AF24783
570506005	AF24784
570506006	AF24785

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2232146

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
570506001	AF24780
570506002	AF24777
570506003	AF24778
570506004	AF24783
570506005	AF24784
570506006	AF24785
1205024389	Method Blank (MB)
1205024390	570506001(AF24780) Sample Duplicate (DUP)
1205024391	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample

The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205024390 (AF24780DUP)	Radium-228	RPD 119* (0.0%-100.0%) RER 2 (0-3)

Technical Information

Recounts

Samples were re-eluted and recounted due to low recovery. The recounts are reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2232145

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
570506001	AF24780
570506002	AF24777
570506003	AF24778
570506004	AF24783
570506005	AF24784
570506006	AF24785
1205024392	Method Blank (MB)
1205024393	570506002(AF24777) Sample Duplicate (DUP)
1205024394	570506002(AF24777) Matrix Spike (MS)
1205024395	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205024394 (AF24777MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

SAMPLE RECEIPT & REVIEW FORM

Client:	SDG		SDG/AR/CO/C/Work Order:	570506	
Received By:	SB		Date Received:	2/15/22	
		Carrier and Tracking Number			
		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other			
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>		Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input type="checkbox"/>	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>		COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <input type="checkbox"/> CPM / mR/Hr Classified as: Rad 1 <input type="checkbox"/> Rad 2 <input type="checkbox"/> Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>		COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/>		Circle Applicable: Client contacted and provided COC COC created upon receipt	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <input type="checkbox"/> 21°C	
4 Daily check performed and passed on IR temperature gun?		<input checked="" type="checkbox"/>		Temperature Device Serial #: <input type="checkbox"/> 127-21 Secondary Temperature Device Serial # (If Applicable):	
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>		Sample ID's and Containers Affected: If Preservation added, Lot#:	
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>		If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected:	
8 Samples received within holding time?		<input checked="" type="checkbox"/>		ID's and tests affected:	
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/>		ID's and containers affected:	
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/>		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/>		Circle Applicable: No container count on COC Other (describe)	
12 Are sample containers identifiable as GEL provided by use of GEL labels?		<input checked="" type="checkbox"/>			
13 COC form is properly signed in relinquished/received sections?		<input checked="" type="checkbox"/>		Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials NKL Date 2/16/22 Page 1 of 1

List of current GEL Certifications as of 12 March 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

February 17, 2022

Sherri Brown
Santee Cooper
1 Riverwood Drive
Moncks Corner, SC 29461

RE: Project: 121567
Pace Project No.: 92585907

Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tyiek Hooks
tyiek.hooks@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeanette Gilmetti, Santee Cooper
Jeanette Gilmetti, Santee Cooper
Courtney Ames Watkins, Santee Cooper
Linda Williams, Santee Cooper



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 121567
Pace Project No.: 92585907

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 121567
Pace Project No.: 92585907

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92585907001	AF24794	EPA 6010D	KH	1	PASI-GA
92585907002	AF24795	EPA 6010D	KH	1	PASI-GA
92585907003	AF24796	EPA 6010D	KH	1	PASI-GA
92585907004	AF24797	EPA 6010D	KH	1	PASI-GA
92585907005	AF24798	EPA 6010D	KH	1	PASI-GA
92585907006	AF24800	EPA 6010D	KH	1	PASI-GA
92585907007	AF24804	EPA 6010D	KH	1	PASI-GA
92585907008	AF24799	EPA 6010D	KH	1	PASI-GA
92585907009	AF24802	EPA 6010D	KH	1	PASI-GA
92585907010	AF24776	EPA 6010D	KH	1	PASI-GA
		EPA 6010D	CBV, RDT	2	PASI-A
		EPA 7470A	DBB1	1	PASI-A
92585907011	AF24801	EPA 6010D	KH	1	PASI-GA
		EPA 6010D	CBV, RDT	2	PASI-A
		EPA 7470A	DBB1	1	PASI-A
92585907012	AF24803	EPA 6010D	KH	1	PASI-GA
		EPA 6010D	CBV, RDT	2	PASI-A
		EPA 7470A	DBB1	1	PASI-A
92585907013	AF24805	EPA 6010D	KH	1	PASI-GA
		EPA 6010D	CBV, RDT	2	PASI-A
		EPA 7470A	DBB1	1	PASI-A
92585907014	AF24806	EPA 6010D	KH	1	PASI-GA
		EPA 6010D	CBV, RDT	2	PASI-A
		EPA 7470A	DBB1	1	PASI-A
92585907015	AF24807	EPA 6010D	KH	1	PASI-GA
		EPA 6010D	CBV, RDT	2	PASI-A
		EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24794	Lab ID: 92585907001	Collected: 01/24/22 13:29	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 19:58	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24795	Lab ID: 92585907002	Collected: 01/24/22 13:34	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:27	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24796	Lab ID: 92585907003	Collected: 01/24/22 14:43	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:32	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24797	Lab ID: 92585907004	Collected: 01/24/22 16:12	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	0.071	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:36	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24798	Lab ID: 92585907005	Collected: 01/24/22 17:39	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:41	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24800	Lab ID: 92585907006	Collected: 01/25/22 11:01	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:46	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24804	Lab ID: 92585907007	Collected: 01/25/22 13:21	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	0.24	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:51	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24799	Lab ID: 92585907008	Collected: 01/25/22 10:06	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 20:55	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24802	Lab ID: 92585907009	Collected: 01/25/22 13:42	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:10	7440-42-8	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24776	Lab ID: 92585907010	Collected: 01/25/22 09:54	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:14	7440-42-8	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lithium	0.66	ug/L	0.50	1	02/08/22 09:53	02/16/22 16:04	7439-93-2	
Molybdenum	ND	ug/L	5.0	1	02/08/22 09:53	02/15/22 18:30	7439-98-7	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/11/22 19:30	02/17/22 10:32	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24801	Lab ID: 92585907011	Collected: 01/25/22 11:40	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:19	7440-42-8	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lithium	3.7	ug/L	0.50	1	02/08/22 09:53	02/16/22 16:07	7439-93-2	
Molybdenum	ND	ug/L	5.0	1	02/08/22 09:53	02/15/22 18:33	7439-98-7	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/11/22 19:30	02/17/22 10:38	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24803	Lab ID: 92585907012	Collected: 01/25/22 12:22	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:24	7440-42-8	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lithium	10.6	ug/L	0.50	1	02/08/22 09:53	02/16/22 16:10	7439-93-2	
Molybdenum	ND	ug/L	5.0	1	02/08/22 09:53	02/15/22 18:43	7439-98-7	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/11/22 19:30	02/17/22 10:40	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24805	Lab ID: 92585907013	Collected: 01/25/22 15:04	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	0.041	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:29	7440-42-8	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lithium	10.4	ug/L	0.50	1	02/08/22 09:53	02/16/22 16:13	7439-93-2	
Molybdenum	ND	ug/L	5.0	1	02/08/22 09:53	02/15/22 18:46	7439-98-7	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/11/22 19:30	02/17/22 10:42	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
 Pace Project No.: 92585907

Sample: AF24806	Lab ID: 92585907014	Collected: 01/26/22 10:30	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:34	7440-42-8	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lithium	3.7	ug/L	0.50	1	02/08/22 09:53	02/16/22 16:17	7439-93-2	
Molybdenum	ND	ug/L	5.0	1	02/08/22 09:53	02/15/22 18:50	7439-98-7	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/11/22 19:30	02/17/22 10:44	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92585907

Sample: AF24807	Lab ID: 92585907015	Collected: 01/26/22 10:35	Received: 02/02/22 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/12/22 11:59	02/13/22 21:38	7440-42-8	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lithium	3.8	ug/L	0.50	1	02/08/22 09:53	02/16/22 16:20	7439-93-2	
Molybdenum	ND	ug/L	5.0	1	02/08/22 09:53	02/15/22 18:53	7439-98-7	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/11/22 19:30	02/17/22 10:46	7439-97-6	

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QUALITY CONTROL DATA

Project: 121567
Pace Project No.: 92585907

QC Batch:	677938	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92585907001, 92585907002, 92585907003, 92585907004, 92585907005, 92585907006, 92585907007, 92585907008, 92585907009, 92585907010, 92585907011, 92585907012, 92585907013, 92585907014, 92585907015		

METHOD BLANK: 3548157 Matrix: Water

Associated Lab Samples: 92585907001, 92585907002, 92585907003, 92585907004, 92585907005, 92585907006, 92585907007,
92585907008, 92585907009, 92585907010, 92585907011, 92585907012, 92585907013, 92585907014,
92585907015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/13/22 19:49	

LABORATORY CONTROL SAMPLE: 3548158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3548159 3548160

Parameter	Units	92585907001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Boron	mg/L	ND	1	1	1.1	1.1	105	108	75-125	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 121567
Pace Project No.: 92585907

QC Batch:	677748	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92585907010, 92585907011, 92585907012, 92585907013, 92585907014, 92585907015		

METHOD BLANK: 3547268 Matrix: Water

Associated Lab Samples: 92585907010, 92585907011, 92585907012, 92585907013, 92585907014, 92585907015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/17/22 10:27	

LABORATORY CONTROL SAMPLE: 3547269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3547270 3547271

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.1	2.4	82	96	75-125	16

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: 121567
Pace Project No.: 92585907

QC Batch:	676661	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples: 92585907010, 92585907011, 92585907012, 92585907013, 92585907014, 92585907015			

METHOD BLANK: 3541609 Matrix: Water

Associated Lab Samples: 92585907010, 92585907011, 92585907012, 92585907013, 92585907014, 92585907015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	ug/L	ND	0.50	02/16/22 15:09	
Molybdenum	ug/L	ND	5.0	02/15/22 17:25	

LABORATORY CONTROL SAMPLE: 3541610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	500	484	97	80-120	
Molybdenum	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541766 3541767

Parameter	Units	35693149001 Result	MS	MSD	MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Lithium	ug/L	3.5	500	500	579	602	115	120	75-125	4	
Molybdenum	ug/L	14.0	500	500	517	535	101	104	75-125	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALIFIERS

Project: 121567
Pace Project No.: 92585907

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 121567
Pace Project No.: 92585907

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92585907001	AF24794	EPA 3010A	677938	EPA 6010D	677950
92585907002	AF24795	EPA 3010A	677938	EPA 6010D	677950
92585907003	AF24796	EPA 3010A	677938	EPA 6010D	677950
92585907004	AF24797	EPA 3010A	677938	EPA 6010D	677950
92585907005	AF24798	EPA 3010A	677938	EPA 6010D	677950
92585907006	AF24800	EPA 3010A	677938	EPA 6010D	677950
92585907007	AF24804	EPA 3010A	677938	EPA 6010D	677950
92585907008	AF24799	EPA 3010A	677938	EPA 6010D	677950
92585907009	AF24802	EPA 3010A	677938	EPA 6010D	677950
92585907010	AF24776	EPA 3010A	677938	EPA 6010D	677950
92585907011	AF24801	EPA 3010A	677938	EPA 6010D	677950
92585907012	AF24803	EPA 3010A	677938	EPA 6010D	677950
92585907013	AF24805	EPA 3010A	677938	EPA 6010D	677950
92585907014	AF24806	EPA 3010A	677938	EPA 6010D	677950
92585907015	AF24807	EPA 3010A	677938	EPA 6010D	677950
92585907010	AF24776	EPA 3010A	676661	EPA 6010D	676721
92585907011	AF24801	EPA 3010A	676661	EPA 6010D	676721
92585907012	AF24803	EPA 3010A	676661	EPA 6010D	676721
92585907013	AF24805	EPA 3010A	676661	EPA 6010D	676721
92585907014	AF24806	EPA 3010A	676661	EPA 6010D	676721
92585907015	AF24807	EPA 3010A	676661	EPA 6010D	676721
92585907010	AF24776	EPA 7470A	677748	EPA 7470A	677859
92585907011	AF24801	EPA 7470A	677748	EPA 7470A	677859
92585907012	AF24803	EPA 7470A	677748	EPA 7470A	677859
92585907013	AF24805	EPA 7470A	677748	EPA 7470A	677859
92585907014	AF24806	EPA 7470A	677748	EPA 7470A	677859
92585907015	AF24807	EPA 7470A	677748	EPA 7470A	677859

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville Sample Condition
Upon Receipt

Client Name:

Santee Cooper

Project #:

WO# : 92585907

Courier:
 Commercial FedEx UPS USPS Other: _____

92585907

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Content: 2-2-22 AR

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: NA Type of Ice: Wet Blue None Yes No N/A

Cooler Temp: NA Add/Subtract ("C) NA

Temp should be above freezing to 6°C

Cooler Temp Corrected ("C): NA

 Samples out of temp criteria. Samples on ice, cooling process has begun.USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

 Yes NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived Within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	WT	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92585907

PM: TIH

Due Date: 02/16/22

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic NaNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFL-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG3H-40 mL VOA HCl (N/A)	VEST-40 mL VOA Na2S2O3 (N/A)	VGSU-40 mL VOA Unpreserved (N/A)	DGSR-40 mL VOA HBrO4 (N/A)	VDAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPZT-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGD0-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DGSU-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., Out of hold, Incorrect preservative, out of temp, Incorrect containers).



Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LTLig

**Bottom half of box is to list number of bottles

Project #

Item #	BP4U-225 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP3U-1 liter Plastic Unpreserved (N/A)	BP2S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP5N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP8-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFL-U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A/DG3A-250 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA H3PO4 (N/A)	VG3T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit) SC35 kit (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	SP3A-250 mL Plastic (NH2)2SC4 (9-3-9-7)	AG3U-100 mL Amber Unpreserved vials (N/A)	VSSU-20 mL Scintillation vials (N/A)	DGSU-40 mL Amber Unpreserved vials (N/A)
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, Incorrect containers).

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

[@santeeconner.com](http://santeeconner.com)

Date Results Needed

Project/Task/Unit #:

Rerun request for any flagged QC

92585907

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle Type (Glass or Plastic?)	Unit (g) or Composite (G)	Method(s) before	Presentation (see below)	Comments					
										Method #	Reporting limit	Misc. sample info	Any other notes		
AF24794	CLFIB-1	1/24/22	1327	BRT BSB	1	P	G	GW	2	B-6010	RL = NONE	X			
95	CLFIB-1 DUP		1334							Mo 6010	RL = 100 PPB	X			
96	CLFIB-2		1443							Li 6010	RL = 40 PPB	X			
97	CLFIB-3		1612							Hg 7470	RL = 2 PPB	X			
98	CLFIB-4		1739	-	-	-	-	-	-			X			
AF24776	CBW-1		0954	-	-	-	-	-	-	* PLEASE SEND SAMPLES TO ATLANTA FOR BORON.		X	X	X	X
1 801	PM-1	-	1140	-	-	-	-	-	-	TO ATLANTA FOR BORON.		X	X	X	X
AF24800	CLFIB-5D	1/25/22	1101	-	-	-	-	-	-			X			
1 804	POZ-5D	1	1321	-	-	-	-	-	-			X			

Retired by	Employee#	Date	Time	Retired by	Employee#	Date	Time
S. Brown	35574	2/1/22	1530				
Retired by	Employee#	Date	Time	Retired by	Employee#	Date	Time
				A. Kneller	PALE/PAVL	2-2-22	1100

Sample Receiving (Internal Use Only)
TEMP (°C): NA Initial: AR

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for prescriptive:

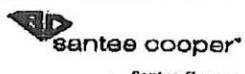
METALS (all)			MISC		
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> BTEX		
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Sc	<input type="checkbox"/> Neopentane		
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> THM/HAA		
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> VOC		
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> Oil & Grease		
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> T	<input type="checkbox"/> Total Coliform		
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> pH		
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Dissolved As		
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> Dissolved Fe		
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CdVI	<input type="checkbox"/> Rad-226		
			<input type="checkbox"/> Rad-228		
			<input type="checkbox"/> PCB		

MISC

- | | |
|----------------------------------------------------|--------------------------------------------|
| <input checked="" type="checkbox"/> BTEX | benzene, toluene, ethylbenzene, and xylene |
| <input checked="" type="checkbox"/> Naphthalene | naphthalene |
| <input checked="" type="checkbox"/> TTHM/HAA | trihalomethane/haloacetic acid |
| <input checked="" type="checkbox"/> VOC | Volatile organic compounds |
| <input checked="" type="checkbox"/> Oil & Grease | oil and grease |
| <input checked="" type="checkbox"/> E. Coli | E. coli |
| <input checked="" type="checkbox"/> Total Coliform | Total coliform |
| <input checked="" type="checkbox"/> pH | pH |
| <input checked="" type="checkbox"/> Dissolved As | dissolved arsenic |
| <input checked="" type="checkbox"/> Dissolved Fe | dissolved iron |
| <input checked="" type="checkbox"/> RAD-226 | RAD-226 |
| <input checked="" type="checkbox"/> RAD-228 | RAD-228 |
| <input checked="" type="checkbox"/> PCB | polychlorinated biphenyls |

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oll-oil, S-Soil, St-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂SiO₃ 6=Other (Specify)

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged OC

LAWLLA

@santeecouper.com

7 - 4

1315/3 4 4M23 A8 661 6-717

Yes No

705

3

Analysis Group

Reimbursed by	Employee ID	Date	Time	Received by	Employee ID	Date	Time
Spouse	35594	2/1/22	1530				
Reimbursed by	Employee ID	Date	Time	Received by	Employee ID	Date	Time
				A. Rucker	PAGE/PAL	2-2-22	11:00
Reimbursed by	Employee ID	Date	Time	Received by	Employee ID	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): N/A Initial: AR
Correct pH: Yes No
Preservative Lost: _____

Date/Time/Init for preservative:

CERMET ALLOY				WIRE				MISC.			
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> S6						<input type="checkbox"/> BTEX			
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> S8						<input type="checkbox"/> Phosphate			
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn						<input type="checkbox"/> THM/HAA			
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr						<input type="checkbox"/> VOC			
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti						<input type="checkbox"/> Oil & Grease			
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> T						<input type="checkbox"/> Cell			
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V						<input type="checkbox"/> Total Coliform			
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn						<input type="checkbox"/> pH			
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg						<input type="checkbox"/> Dissolved As			
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI						<input type="checkbox"/> Dissolved Fe			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section).
 Preservative code: 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂SiO₃ 6=Other (Specify)

February 25, 2022

Sherri Brown
Santee Cooper
1 Riverwood Drive
Moncks Corner, SC 29461

RE: Project: 121567/JM02.09.G01/36500
Pace Project No.: 92588262

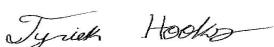
Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
• Pace Analytical Services - Asheville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tyiek Hooks
tyiek.hooks@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeanette Gilmetti, Santee Cooper
Jeanette Gilmetti, Santee Cooper
Courtney Ames Watkins, Santee Cooper
Linda Williams, Santee Cooper



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92588262

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92588262001	AF24763	EPA 7470A	DBB1	1	PASI-A
92588262002	AF24761	EPA 7470A	DBB1	1	PASI-A
92588262003	AF24768	EPA 7470A	DBB1	1	PASI-A
92588262004	AF24769	EPA 7470A	DBB1	1	PASI-A
92588262005	AF24770	EPA 7470A	DBB1	1	PASI-A
92588262006	AF24771	EPA 7470A	DBB1	1	PASI-A
92588262007	AF24779	EPA 7470A	DBB1	1	PASI-A
92588262008	AF24781	EPA 7470A	DBB1	1	PASI-A
92588262009	AF24782	EPA 7470A	DBB1	1	PASI-A
92588262010	AF24786	EPA 7470A	DBB1	1	PASI-A
92588262011	AF24787	EPA 7470A	DBB1	1	PASI-A
92588262012	AF24780	EPA 7470A	DBB1	1	PASI-A
92588262013	AF24777	EPA 7470A	DBB1	1	PASI-A
92588262014	AF24778	EPA 7470A	DBB1	1	PASI-A
92588262015	AF24783	EPA 7470A	DBB1	1	PASI-A
92588262016	AF24784	EPA 7470A	DBB1	1	PASI-A
92588262017	AF24785	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24763	Lab ID: 92588262001	Collected: 02/07/22 16:02	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:05	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24761	Lab ID: 92588262002	Collected: 02/07/22 09:51	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:07	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24768	Lab ID: 92588262003	Collected: 02/08/22 11:53	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:09	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24769	Lab ID: 92588262004	Collected: 02/08/22 13:03	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:11	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24770	Lab ID: 92588262005	Collected: 02/08/22 13:08	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:14	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24771	Lab ID: 92588262006	Collected: 02/08/22 14:05	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:16	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24779	Lab ID: 92588262007	Collected: 02/08/22 16:04	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:18	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24781	Lab ID: 92588262008	Collected: 02/09/22 13:36	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:20	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24782	Lab ID: 92588262009	Collected: 02/09/22 11:25	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:26	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24786	Lab ID: 92588262010	Collected: 02/09/22 10:17	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:28	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24787	Lab ID: 92588262011	Collected: 02/09/22 12:35	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:30	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24780	Lab ID: 92588262012	Collected: 02/10/22 09:52	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:32	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24777	Lab ID: 92588262013	Collected: 02/10/22 11:42	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:35	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24778	Lab ID: 92588262014	Collected: 02/10/22 12:45	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:37	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24783	Lab ID: 92588262015	Collected: 02/10/22 14:28	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:39	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24784	Lab ID: 92588262016	Collected: 02/10/22 14:33	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:41	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Sample: AF24785	Lab ID: 92588262017	Collected: 02/10/22 15:40	Received: 02/15/22 11:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	02/24/22 17:05	02/25/22 14:43	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

QC Batch: 679759 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92588262001, 92588262002, 92588262003, 92588262004, 92588262005, 92588262006, 92588262007,
92588262008, 92588262009, 92588262010, 92588262011, 92588262012, 92588262013, 92588262014,
92588262015, 92588262016, 92588262017

METHOD BLANK: 3556580 Matrix: Water

Associated Lab Samples: 92588262001, 92588262002, 92588262003, 92588262004, 92588262005, 92588262006, 92588262007,
92588262008, 92588262009, 92588262010, 92588262011, 92588262012, 92588262013, 92588262014,
92588262015, 92588262016, 92588262017

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	ug/L	ND	0.20	02/25/22 13:46	

LABORATORY CONTROL SAMPLE: 3556581

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	ug/L	2.5	2.3	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556582 3556583

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	Qual
		92585602004	Spike	Spike	Result	Result	% Rec	% Rec	Limits		
Mercury	ug/L	ND	2.5	2.5	2.2	2.3	89	91	75-125	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92588262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92588262001	AF24763	EPA 7470A	679759	EPA 7470A	680860
92588262002	AF24761	EPA 7470A	679759	EPA 7470A	680860
92588262003	AF24768	EPA 7470A	679759	EPA 7470A	680860
92588262004	AF24769	EPA 7470A	679759	EPA 7470A	680860
92588262005	AF24770	EPA 7470A	679759	EPA 7470A	680860
92588262006	AF24771	EPA 7470A	679759	EPA 7470A	680860
92588262007	AF24779	EPA 7470A	679759	EPA 7470A	680860
92588262008	AF24781	EPA 7470A	679759	EPA 7470A	680860
92588262009	AF24782	EPA 7470A	679759	EPA 7470A	680860
92588262010	AF24786	EPA 7470A	679759	EPA 7470A	680860
92588262011	AF24787	EPA 7470A	679759	EPA 7470A	680860
92588262012	AF24780	EPA 7470A	679759	EPA 7470A	680860
92588262013	AF24777	EPA 7470A	679759	EPA 7470A	680860
92588262014	AF24778	EPA 7470A	679759	EPA 7470A	680860
92588262015	AF24783	EPA 7470A	679759	EPA 7470A	680860
92588262016	AF24784	EPA 7470A	679759	EPA 7470A	680860
92588262017	AF24785	EPA 7470A	679759	EPA 7470A	680860

REPORT OF LABORATORY ANALYSIS

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<i>Pace Analytical</i>	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolina's Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <i>Santee Cooper</i>	Project # W0# : 92588262
Couriers: <input type="checkbox"/> Commercial	<input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____	<input type="checkbox"/> Client
Custody Seal Present? <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Seals Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Packing Material: <input type="checkbox"/> Bubble Wrap	<input type="checkbox"/> Bubble Bags	<input checked="" type="checkbox"/> None <input type="checkbox"/> Other
Thermometer: <input checked="" type="checkbox"/> IR Gua ID: <i>98T071</i>	Type of Ice: <input type="checkbox"/> Wet <input type="checkbox"/> Blue	<input checked="" type="checkbox"/> None
Cooler Temp: <i>14.3</i>	Correction Factor: <i>0</i>	Temp should be above freezing to 6°C <input type="checkbox"/> Samples out of temp criteria. Samples on ice, cooling process has begun
Cooler Temp Corrected (°C): <i>14.3</i>		
USDA Regulated Soil (<input checked="" type="checkbox"/> N/A, water sample)	Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? <input type="checkbox"/> Yes <input type="checkbox"/> No		Comments/Discrepancy:
Chair of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used? Pace Containless Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Discarded analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>W7</i>		
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

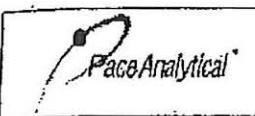
Person Contacted: _____ Date/Time: _____

Project Manager SCLRF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

*check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TEC, Oil and Grease, DCO/8Q1S (water) DOC, LLHg

**bottom half of box is to list number of bottles

Project

WO# : 92588262

PM: TIH

Due Date: 03/01/22

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3M-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-250 mL Plastic NaOH (pH > 12) (Cl-)	WSFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG2U-250 mL Amber Unpreserved (N/A) (Cl-)	AG2S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3AIDSAJ-250 mL Amber NH4Cl (N/A) (Cl-)	OG9H-40 mL VOA H3PO4 (N/A)	VSGU-40 mL VOA HCl (N/A)	DG9U-40 mL VOA H3PO4 (N/A)	VOAK [3 vials per Kit] SO3S kit (N/A)	V/SK [3 vials per lot] VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPZT-250 mL Sterile Plastic (N/A - lab)	BP2A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers).



Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TEC, Oil and Grease, DRO/8Q15 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

Project #

WO# : 92588262

PM: TIH

Due Date: 03/01/22

CLIENT: 97-SanteeCoo

Item#	BP4U-325 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WG FU-Wheel-mouthed Glass Jar Unpreserved	AG1b-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG5U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG8S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VGBU-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VQAK (3 vials per kit) 5035 kit (N/A)	VIGK (3 vials per kit) VPH/Gas Kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPSA-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Schillulation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																											
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LWILLIA

@santeecooper.com

1 / 1 /

121567 / JM02.09.G/01 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total No. Containers	Bottle type (Glass or Plastic-P)	Grab (G) or Composite (C)	Matrix/See below	Preservative Used	Comments			
AF24763	CAP-3	2/7/22	1602	BRT BSB	1	P	G	GW	2	METHOD 7470	X	CO1	
1 61	CAP-1	1	0951	1	1							CO2	
AF24768	CAP-8	2/8/22	1153									CO3	
1 69	CAP-9		1303									CO4	
1 70	CAP-9 DUP		1308									QS	
1 71	CAP-10		1405	1	1							CO6	
AF24779	CCMLF-2	2/8/22	1604	1								QE7	
AF24781	CCMAP-2	2/9/22	1336									QE8	
1 82	CCMAP-3	1	1125									QE9	
1 86	CCMAP-6	1	1017	1	1	1	1	1	1		1	Q10	

Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time
SJBrown	35594	2/14/22	1500	Mincher/Ascan	21522	2/15/22	1115
Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 14.3 Initial: out

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (III)			MISC.			GAS		
<input type="checkbox"/> Al	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb						
<input type="checkbox"/> As	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> BTEX					
<input type="checkbox"/> Ba	<input type="checkbox"/> K	<input type="checkbox"/> Sp	<input type="checkbox"/> Naphthalene					
<input type="checkbox"/> Be	<input type="checkbox"/> Li	<input type="checkbox"/> Si	<input type="checkbox"/> THM/HAA					
<input type="checkbox"/> Ca	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> VOC					
<input type="checkbox"/> Cd	<input type="checkbox"/> Mn	<input type="checkbox"/> Ti	<input type="checkbox"/> Oil & Grease					
<input type="checkbox"/> Co	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> E. Coli					
<input type="checkbox"/> Cr	<input type="checkbox"/> Ni	<input checked="" type="checkbox"/> Hg	<input type="checkbox"/> Total Coliform					
	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> pH					
			<input type="checkbox"/> Dissolved Al					
			<input type="checkbox"/> Dissolved Fe					
			<input type="checkbox"/> Rad 226					
			<input type="checkbox"/> Rad 228					
			<input type="checkbox"/> PCB					

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4125

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecanner.com

Date Results Needed:

卷之三十一

Yes No

Analysts Group

Sample Receiving (Internal Use Only)
TEMP (°C): 14.3 Initial: mg
Correct pH: Yes No
Preservative Lot#: _____

Date/Time/init for preservative:

METALS (all)			MISC.
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> PTEX
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> Naphthalene
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> THM/HAA
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> VOC
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> Oil & Grease
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> E. Coli
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> Total Coliform
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> pH
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input checked="" type="checkbox"/> Hg	<input type="checkbox"/> Dissolved As
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> Cr VI	<input type="checkbox"/> Dissolved Fe
			<input type="checkbox"/> Rad 226
			<input type="checkbox"/> Rad 228
			<input type="checkbox"/> PCB

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, OIl-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1= -4°C 2= HNO_3 3= H_2SO_4 4= HCl 5= Na_2SiO_3 6=Other (Specify)



Laboratory Report

Client Santee Cooper
Linda Williams
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Received: 08/05/2022 11:00

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on August 05, 2022. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Elisabeth Noblet, your Project Manager, at enoblet@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Elisabeth Noblet

Elisabeth Noblet
Project Manager

This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
an employee-owned company



Certificate of Analysis

*South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880*

Client Santee Cooper
 Linda Williams
 1 Riverwood Dr.
 Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Received: 08/05/2022 11:00

Sample Number	Sample Description	Matrix	Sampled	Type
22H0490-01	AF36903 POZ-4	Ground Water	06/28/22 11:35	Grab
22H0490-02	AF36905 POZ-6	Ground Water	06/28/22 13:22	Grab
22H0490-03	AF36906 POZ-7	Ground Water	06/28/22 14:41	Grab
22H0490-04	AF36907 POZ-7 Dup	Ground Water	06/28/22 14:46	Grab
22H0490-05	AF36894 CLFIB-1	Ground Water	06/27/22 09:26	Grab
22H0490-06	AF36895 CLFIB-1 DUP	Ground Water	06/27/22 09:31	Grab
22H0490-07	AF36896 CLFIB-2	Ground Water	06/27/22 10:55	Grab
22H0490-08	AF36897 CLFIB-3	Ground Water	06/27/22 11:44	Grab
22H0490-09	AF36898 CLFIB-4	Ground Water	06/27/22 12:53	Grab
22H0490-10	AF36899 CLFIB-5	Ground Water	06/27/22 13:48	Grab
22H0490-11	AF36900 CLFIB-5D	Ground Water	06/27/22 14:47	Grab
22H0490-12	AF36902 POZ-3	Ground Water	06/27/22 15:46	Grab
22H0490-13	AF36904 POZ-5D	Ground Water	06/28/22 10:03	Grab
22H0490-14	AF36886 CCMLF-1D	Ground Water	06/29/22 10:33	Grab
22H0490-15	AF36887 CCMLF-2	Ground Water	06/29/22 11:40	Grab
22H0490-16	AF36877 CCMAP-1	Ground Water	06/29/22 13:10	Grab
22H0490-17	AF36883 CCMAP-6	Ground Water	06/29/22 14:08	Grab
22H0490-18	AF36879 CCMAP-3	Ground Water	06/30/22 09:30	Grab
22H0490-19	AF36878 CCMAP-2	Ground Water	06/30/22 10:33	Grab
22H0490-20	AF36884 CCMAP-7	Ground Water	06/30/22 11:29	Grab
22H0490-21	AF36880 CCMAP-4	Ground Water	06/30/22 12:40	Grab
22H0490-22	AF36881 CCMAP-4 DUP	Ground Water	06/30/22 12:45	Grab
22H0490-23	AF36882 CCMAP-5	Ground Water	06/30/22 14:06	Grab
22H0490-24	AF36876 CBW-1	Ground Water	06/20/22 14:16	Grab
22H0490-25	AF36901 PM-1	Ground Water	06/20/22 15:31	Grab
22H0490-26	AF36888 CGYP-1	Ground Water	06/21/22 10:04	Grab
22H0490-27	AF36889 CGYP-2	Ground Water	06/21/22 11:09	Grab



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number	Sample Description	Matrix	Sampled	Type
22H0490-28	AF36890 CGYP-2 DUP	Ground Water	06/21/22 11:14	Grab
22H0490-29	AF36891 CGYP-3	Ground Water	06/21/22 12:31	Grab
22H0490-30	AF36892 CGYP-4	Ground Water	06/21/22 13:23	Grab
22H0490-31	AF36893 CGYP-6	Ground Water	06/21/22 14:23	Grab
22H0490-32	AF36908 POZ-8	Ground Water	06/28/22 10:50	Grab
22H0490-33	AF36885 CCMLF-1	Ground Water	06/29/22 09:30	Grab
22H0490-34	AF36873 CAP-12	Ground Water	06/21/22 15:18	Grab
22H0490-35	AF36875 CAP-14	Ground Water	06/22/22 09:39	Grab
22H0490-36	AF36872 CAP-11	Ground Water	06/22/22 13:57	Grab
22H0490-37	AF36862 CAP-2	Ground Water	06/22/22 12:02	Grab
22H0490-38	AF36874 CAP-13	Ground Water	06/22/22 10:27	Grab
22H0490-39	AF36861 CAP-1	Ground Water	06/22/22 12:53	Grab
22H0490-40	AF36871 CAP-10	Ground Water	06/22/22 14:45	Grab
22H0490-41	AF36869 CAP-9	Ground Water	06/22/22 15:40	Grab
22H0490-42	AF36870 CAP-9 DUP	Ground Water	06/22/22 15:45	Grab
22H0490-43	AF36868 CAP-8	Ground Water	06/23/22 10:05	Grab
22H0490-44	AF36867 CAP-7	Ground Water	06/23/22 11:16	Grab
22H0490-45	AF36866 CAP-6	Ground Water	06/23/22 12:15	Grab
22H0490-46	AF36865 CAP-5	Ground Water	06/23/22 13:27	Grab
22H0490-47	AF36864 CAP-4	Ground Water	06/23/22 14:49	Grab
22H0490-48	AF36863 CAP-3	Ground Water	06/23/22 16:08	Grab



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Data

Sample Number 22H0490-01
Sample Description AF36903 POZ-4 collected on 06/28/22 11:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Antimony	ND	0.050	mg/L	1.00	08/09/22 15:15	EPA 6010D	CAL	B2H1367	RC-G	
Arsenic	ND	0.005	mg/L	1.00	08/10/22 15:59	EPA 6020B	JIP	B2H1391	RC-G	
Barium	0.087	0.010	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Beryllium	0.0007	0.0005	mg/L	1.00	08/10/22 15:59	EPA 6020B	JIP	B2H1391	RC-G	
Boron	22	15	ug/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Cadmium	ND	0.004	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Calcium	310	5.0	mg/L	100	08/11/22 19:02	EPA 6010D	KTH	B2H1367	RC-G	
Chromium	ND	0.005	mg/L	1.00	08/10/22 15:59	EPA 6020B	JIP	B2H1391	RC-G	
Cobalt	0.109	0.001	mg/L	1.00	08/10/22 15:59	EPA 6020B	JIP	B2H1391	RC-G	
Copper	ND	0.010	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Iron	0.42	0.050	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Lead	ND	0.010	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Lithium	13	10	ug/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Magnesium	5.8	0.25	mg/L	5.00	08/11/22 08:48	EPA 6010D	KTH	B2H1367	RC-G	
Molybdenum	ND	10	ug/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Nickel	0.012	0.010	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Potassium	4.9	0.10	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Selenium	ND	0.020	mg/L	1.00	08/09/22 15:15	EPA 6010D	CAL	B2H1367	RC-G	
Sodium	89	5.0	mg/L	50.0	08/11/22 08:37	EPA 6010D	KTH	B2H1367	RC-G	
Thallium	ND	0.001	mg/L	1.00	08/10/22 15:59	EPA 6020B	JIP	B2H1391	RC-G	
Zinc	ND	0.010	mg/L	1.00	08/09/22 15:15	EPA 6010D	KTH	B2H1367	RC-G	
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 13:07	EPA 6020B	JIP	B2H1455	RC-G	



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-02
Sample Description AF36905 POZ-6 collected on 06/28/22 13:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.068	0.050	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 15:50	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:04	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.058	0.010	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:04	EPA 6020B		JIP	B2H1391	RC-G
Boron	44	15	ug/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Calcium	470	25	mg/L	500	08/11/22 19:12	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:04	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.004	0.001	mg/L	1.00	08/10/22 16:04	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Iron	13	0.25	mg/L	5.00	08/11/22 09:08	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	8.8	0.25	mg/L	5.00	08/11/22 09:08	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Potassium	1.7	0.10	mg/L	1.00	08/11/22 09:18	EPA 6010D	S1	KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 15:50	EPA 6010D		CAL	B2H1367	RC-G
Sodium	69	5.0	mg/L	50.0	08/11/22 08:58	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:04	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 15:50	EPA 6010D		KTH	B2H1367	RC-G
Rebatch Sample Number: 22H0490-02RE1										
Potassium	1.9	0.10	mg/L	1.00	08/17/22 15:40	EPA 6010D	S1	KTH	B2H1706	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 13:20	EPA 6020B		JIP	B2H1455	RC-G



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-03
Sample Description AF36906 POZ-7 collected on 06/28/22 14:41

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.062	0.050	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:11	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:09	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.22	0.010	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:09	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Calcium	47	2.5	mg/L	50.0	08/11/22 09:46	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:09	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.001	0.001	mg/L	1.00	08/10/22 16:09	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.23	0.050	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	2.0	0.050	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Potassium	3.3	0.10	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:11	EPA 6010D		CAL	B2H1367	RC-G
Sodium	10	0.50	mg/L	5.00	08/11/22 09:49	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:09	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:11	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 13:51	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-04
Sample Description AF36907 POZ-7 Dup collected on 06/28/22 14:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:14	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.23	0.010	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Calcium	51	5.0	mg/L	100	08/11/22 09:56	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.001	mg/L	1.00	08/10/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.069	0.050	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	2.0	0.050	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Potassium	3.4	0.10	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:14	EPA 6010D		CAL	B2H1367	RC-G
Sodium	9.8	0.50	mg/L	5.00	08/11/22 10:00	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:14	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 13:55	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-05
Sample Description AF36894 CLFIB-1 collected on 06/27/22 09:26

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:18	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 14:00	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.13	0.010	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 14:00	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Calcium	180	5.0	mg/L	100	08/11/22 10:06	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 14:00	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.002	0.001	mg/L	1.00	08/10/22 14:00	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.13	0.050	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	3.0	0.050	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.85	0.10	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:18	EPA 6010D		CAL	B2H1367	RC-G
Sodium	22	0.50	mg/L	5.00	08/11/22 10:10	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 14:00	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:18	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:00	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-06
Sample Description AF36895 CLFIB-1 DUP collected on 06/27/22 09:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:21	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:18	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.12	0.010	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:18	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Calcium	190	5.0	mg/L	100	08/11/22 10:30	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:18	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.003	0.001	mg/L	1.00	08/10/22 16:18	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Iron	ND	0.050	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	2.9	0.050	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.83	0.10	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:21	EPA 6010D		CAL	B2H1367	RC-G
Sodium	21	0.50	mg/L	5.00	08/11/22 10:33	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:18	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:21	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:04	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-07
Sample Description AF36896 CLFIB-2 collected on 06/27/22 10:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:25	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:23	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.16	0.010	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:23	EPA 6020B		JIP	B2H1391	RC-G
Boron	20	15	ug/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Calcium	140	5.0	mg/L	100	08/11/22 10:40	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:23	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.003	0.001	mg/L	1.00	08/10/22 16:23	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.28	0.050	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	2.1	0.050	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.43	0.10	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:25	EPA 6010D		CAL	B2H1367	RC-G
Sodium	9.2	0.50	mg/L	5.00	08/11/22 10:44	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:23	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:25	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:09	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-08
Sample Description AF36897 CLFIB-3 collected on 06/27/22 11:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:28	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 14:13	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.076	0.010	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 14:13	EPA 6020B		JIP	B2H1391	RC-G
Boron	120	15	ug/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Calcium	230	25	mg/L	500	08/11/22 10:50	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 14:13	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.008	0.001	mg/L	1.00	08/10/22 14:13	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Iron	4.0	0.050	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	8.2	0.25	mg/L	5.00	08/11/22 10:54	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Potassium	1.3	0.10	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:28	EPA 6010D		CAL	B2H1367	RC-G
Sodium	6.5	0.50	mg/L	5.00	08/11/22 10:54	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 14:13	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:28	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:13	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-09
Sample Description AF36898 CLFIB-4 collected on 06/27/22 12:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:32	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:28	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.056	0.010	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:28	EPA 6020B		JIP	B2H1391	RC-G
Boron	27	15	ug/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Calcium	140	5.0	mg/L	100	08/11/22 11:14	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:28	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.001	mg/L	1.00	08/10/22 16:28	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Iron	ND	0.050	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	3.1	0.050	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.55	0.10	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:32	EPA 6010D		CAL	B2H1367	RC-G
Sodium	12	0.50	mg/L	5.00	08/11/22 11:17	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:28	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:32	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:18	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-10
Sample Description AF36899 CLFIB-5 collected on 06/27/22 13:48

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:49	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:33	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.12	0.010	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:33	EPA 6020B		JIP	B2H1391	RC-G
Boron	26	15	ug/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Calcium	290	25	mg/L	500	08/11/22 11:24	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:33	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.004	0.001	mg/L	1.00	08/10/22 16:33	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Iron	1.8	0.050	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	4.7	0.050	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Potassium	1.1	0.10	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:49	EPA 6010D		CAL	B2H1367	RC-G
Sodium	20	0.50	mg/L	5.00	08/11/22 11:27	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:33	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:49	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:23	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-11
Sample Description AF36900 CLFIB-5D collected on 06/27/22 14:47

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:52	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:37	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.018	0.010	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:37	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Calcium	59	2.5	mg/L	50.0	08/11/22 11:34	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:37	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.001	mg/L	1.00	08/10/22 16:37	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.21	0.050	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	2.6	0.050	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Potassium	3.7	0.10	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:52	EPA 6010D		CAL	B2H1367	RC-G
Sodium	4.8	0.10	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:37	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:52	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:27	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-12
Sample Description AF36902 POZ-3 collected on 06/27/22 15:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.070	0.050	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:56	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 16:42	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.11	0.010	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 16:42	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Calcium	180	2.5	mg/L	50.0	08/11/22 11:58	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 16:42	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.003	0.001	mg/L	1.00	08/10/22 16:42	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.13	0.050	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	8.3	0.25	mg/L	5.00	08/11/22 12:01	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.36	0.10	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:56	EPA 6010D		CAL	B2H1367	RC-G
Sodium	54	5.0	mg/L	50.0	08/11/22 11:58	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:42	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:56	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:46	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-13
Sample Description AF36904 POZ-5D collected on 06/28/22 10:03

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.14	0.050	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 16:59	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/12/22 19:21	EPA 6020B	X	JIP	B2H1391	RC-G
Barium	0.060	0.010	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/11/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Boron	210	15	ug/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Calcium	760	50	mg/L	1,000	08/11/22 19:22	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.008	0.002	mg/L	1.00	08/11/22 16:14	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Iron	11	0.25	mg/L	5.00	08/11/22 12:11	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Lithium	140	10	ug/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	12	0.25	mg/L	5.00	08/11/22 12:11	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Potassium	2.2	0.10	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 16:59	EPA 6010D		CAL	B2H1367	RC-G
Sodium	94	10	mg/L	100	08/11/22 12:08	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 16:57	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 16:59	EPA 6010D		KTH	B2H1367	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 17:43	EPA 6020B	X	JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-14
Sample Description AF36886 CCMLF-1D collected on 06/29/22 10:33

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:03	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:02	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.040	0.010	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/11/22 15:11	EPA 6020B		JIP	B2H1391	RC-G
Boron	15	15	ug/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Calcium	55	2.5	mg/L	50.0	08/11/22 11:41	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 15:11	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.002	mg/L	1.00	08/11/22 15:11	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Iron	1.1	0.050	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	1.3	0.050	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Potassium	1.2	0.10	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:03	EPA 6010D		CAL	B2H1367	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:02	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:03	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-15
Sample Description AF36887 CCMLF-2 collected on 06/29/22 11:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.11	0.050	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:06	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:07	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.035	0.010	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/11/22 15:16	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Calcium	16	0.25	mg/L	5.00	08/11/22 12:18	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 15:16	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.002	mg/L	1.00	08/11/22 15:16	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.49	0.050	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	0.39	0.050	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.90	0.10	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:06	EPA 6010D		CAL	B2H1367	RC-G
Sodium	3.8	0.10	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:07	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:06	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-16
Sample Description AF36877 CCMAP-1 collected on 06/29/22 13:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:10	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:11	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.050	0.010	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/11/22 15:21	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Calcium	59	2.5	mg/L	50.0	08/11/22 12:42	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 15:21	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.002	mg/L	1.00	08/11/22 15:21	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.42	0.050	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	1.4	0.050	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.51	0.10	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:10	EPA 6010D		CAL	B2H1367	RC-G
Sodium	6.8	0.50	mg/L	5.00	08/11/22 12:45	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:11	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:10	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-17
Sample Description AF36883 CCMAP-6 collected on 06/29/22 14:08

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.69	0.050	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:13	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:16	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.038	0.010	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	0.004	0.0005	mg/L	1.00	08/11/22 15:25	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Calcium	17	0.25	mg/L	5.00	08/11/22 12:25	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 15:25	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.035	0.002	mg/L	1.00	08/11/22 15:25	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Iron	ND	0.050	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	4.8	0.050	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Nickel	0.024	0.010	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Potassium	1.3	0.10	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:13	EPA 6010D		CAL	B2H1367	RC-G
Sodium	2.2	0.10	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:16	EPA 6020B		JIP	B2H1391	RC-G
Zinc	0.034	0.010	mg/L	1.00	08/09/22 17:13	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-18
Sample Description AF36879 CCMAP-3 collected on 06/30/22 09:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.093	0.050	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:17	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.025	mg/L	5.00	08/12/22 19:26	EPA 6020B	X	JIP	B2H1391	RC-G
Barium	0.056	0.010	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.002	mg/L	5.00	08/12/22 19:26	EPA 6020B	X	JIP	B2H1391	RC-G
Boron	21000	75	ug/L	5.00	08/11/22 12:55	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Calcium	1000	50	mg/L	1,000	08/11/22 19:26	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.025	mg/L	5.00	08/12/22 19:26	EPA 6020B	X	JIP	B2H1391	RC-G
Cobalt	ND	0.005	mg/L	5.00	08/12/22 19:26	EPA 6020B	X	JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Iron	3.1	0.050	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Lithium	27	10	ug/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	140	5.0	mg/L	100	08/11/22 12:52	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Potassium	13	0.10	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:17	EPA 6010D		CAL	B2H1367	RC-G
Sodium	180	10	mg/L	100	08/11/22 12:52	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.005	mg/L	5.00	08/12/22 19:26	EPA 6020B	X	JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:17	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-19
Sample Description AF36878 CCMAP-2 collected on 06/30/22 10:33

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:34	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:26	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.016	0.010	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/11/22 15:50	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Calcium	8.6	0.25	mg/L	5.00	08/11/22 13:02	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 15:50	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	ND	0.002	mg/L	1.00	08/11/22 15:50	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.072	0.050	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	0.20	0.050	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.66	0.10	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:34	EPA 6010D		CAL	B2H1367	RC-G
Sodium	3.2	0.10	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:26	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:34	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
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Reported: 08/31/22 17:43

Sample Number 22H0490-20
Sample Description AF36884 CCMAP-7 collected on 06/30/22 11:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:37	EPA 6010D		CAL	B2H1367	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:30	EPA 6020B		JIP	B2H1391	RC-G
Barium	0.037	0.010	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/11/22 15:54	EPA 6020B		JIP	B2H1391	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Calcium	14	0.25	mg/L	5.00	08/11/22 13:09	EPA 6010D		KTH	B2H1367	RC-G
Chromium	ND	0.005	mg/L	1.00	08/11/22 15:54	EPA 6020B		JIP	B2H1391	RC-G
Cobalt	0.007	0.002	mg/L	1.00	08/11/22 15:54	EPA 6020B		JIP	B2H1391	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Iron	0.053	0.050	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Magnesium	0.62	0.050	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Potassium	0.87	0.10	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:37	EPA 6010D		CAL	B2H1367	RC-G
Sodium	5.9	0.50	mg/L	5.00	08/11/22 13:09	EPA 6010D		KTH	B2H1367	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:30	EPA 6020B		JIP	B2H1391	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:37	EPA 6010D		KTH	B2H1367	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-21
Sample Description AF36880 CCMAP-4 collected on 06/30/22 12:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 17:51	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 18:37	EPA 6020B		JIP	B2H1392	RC-G
Barium	0.17	0.010	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 18:37	EPA 6020B		JIP	B2H1392	RC-G
Boron	26	15	ug/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Calcium	89	2.5	mg/L	50.0	08/11/22 13:26	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 18:37	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.006	0.001	mg/L	1.00	08/10/22 18:37	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Iron	2.8	0.050	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	2.5	0.050	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.98	0.10	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 17:51	EPA 6010D		CAL	B2H1368	RC-G
Sodium	15	1.0	mg/L	10.0	08/11/22 13:36	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 18:37	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 17:51	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-22
Sample Description AF36881 CCMAP-4 DUP collected on 06/30/22 12:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 18:11	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 18:41	EPA 6020B		JIP	B2H1392	RC-G
Barium	0.16	0.010	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 18:41	EPA 6020B		JIP	B2H1392	RC-G
Boron	25	15	ug/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Calcium	85	2.5	mg/L	50.0	08/11/22 13:46	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 18:41	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.006	0.001	mg/L	1.00	08/10/22 18:41	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Iron	2.6	0.050	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	2.4	0.050	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.95	0.10	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 18:11	EPA 6010D		CAL	B2H1368	RC-G
Sodium	14	1.0	mg/L	10.0	08/11/22 13:56	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 18:41	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 18:11	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-23
Sample Description AF36882 CCMAP-5 collected on 06/30/22 14:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.075	0.050	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 18:32	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 22:15	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.20	0.010	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 18:46	EPA 6020B		JIP	B2H1392	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Calcium	140	5.0	mg/L	100	08/11/22 14:23	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 18:46	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.008	0.001	mg/L	1.00	08/10/22 18:46	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Iron	0.30	0.050	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	2.4	0.050	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.89	0.10	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 18:32	EPA 6010D		CAL	B2H1368	RC-G
Sodium	15	1.0	mg/L	10.0	08/11/22 14:27	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 18:46	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 18:32	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-24
Sample Description AF36876 CBW-1 collected on 06/20/22 14:16

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.81	0.050	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 14:43	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 17:56	EPA 6020B		JIP	B2H1392	RC-G
Barium	0.033	0.010	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/22/22 22:26	EPA 6020B		JIP	B2H1735	RC-G
Boron	15	15	ug/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Calcium	29	2.5	mg/L	50.0	08/11/22 14:33	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/17/22 17:59	EPA 6020B		JIP	B2H1735	RC-G
Cobalt	ND	0.001	mg/L	1.00	08/17/22 17:59	EPA 6020B		JIP	B2H1735	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Iron	0.14	0.050	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	1.9	0.050	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.62	0.10	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 14:43	EPA 6010D		CAL	B2H1368	RC-G
Sodium	3.2	0.10	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 17:56	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/11/22 14:43	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 14:56	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-25
Sample Description AF36901 PM-1 collected on 06/20/22 15:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 18:53	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 18:12	EPA 6020B		JIP	B2H1392	RC-G
Barium	0.076	0.010	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/15/22 16:39	EPA 6020B		JIP	B2H1392	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Calcium	6.2	0.25	mg/L	5.00	08/11/22 14:06	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/15/22 16:39	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	ND	0.001	mg/L	1.00	08/15/22 16:39	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Iron	6.0	0.25	mg/L	5.00	08/11/22 14:06	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	0.47	0.050	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.58	0.10	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Sodium	5.6	0.50	mg/L	5.00	08/11/22 14:06	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 18:12	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.013	0.010	mg/L	1.00	08/09/22 18:53	EPA 6010D		KTH	B2H1368	RC-G
Rebatch Sample Number: 22H0490-25RE1										
Chromium	ND	0.005	mg/L	1.00	08/17/22 18:16	EPA 6020B		JIP	B2H1735	RC-G
Cobalt	0.001	0.001	mg/L	1.00	08/17/22 18:16	EPA 6020B		JIP	B2H1735	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 15:00	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-26
Sample Description AF36888 CGYP-1 collected on 06/21/22 10:04

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	7.1	0.10	mg/L	2.00	08/11/22 15:16	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 15:19	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 22:20	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.023	0.010	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.006	0.0005	mg/L	1.00	08/10/22 18:51	EPA 6020B		JIP	B2H1392	RC-G
Boron	4200	15	ug/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Calcium	200	2.5	mg/L	50.0	08/11/22 15:08	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 18:51	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.033	0.001	mg/L	1.00	08/10/22 18:51	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Iron	200	2.5	mg/L	50.0	08/11/22 15:08	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	49	2.5	mg/L	50.0	08/11/22 15:08	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Nickel	0.013	0.010	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Potassium	2.5	0.10	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 15:19	EPA 6010D		CAL	B2H1368	RC-G
Sodium	65	5.0	mg/L	50.0	08/11/22 15:08	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 18:51	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.021	0.010	mg/L	1.00	08/11/22 15:19	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-27
Sample Description AF36889 CGYP-2 collected on 06/21/22 11:09

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	16	0.25	mg/L	5.00	08/11/22 15:29	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 15:37	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 18:56	EPA 6020B		JIP	B2H1392	RC-G
Barium	ND	0.010	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.003	0.0005	mg/L	1.00	08/10/22 18:56	EPA 6020B		JIP	B2H1392	RC-G
Boron	570	15	ug/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Calcium	240	2.5	mg/L	50.0	08/11/22 15:26	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 18:56	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.018	0.001	mg/L	1.00	08/10/22 18:56	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Iron	68	2.5	mg/L	50.0	08/11/22 15:26	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	18	0.25	mg/L	5.00	08/11/22 15:29	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.4	0.10	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 15:37	EPA 6010D		CAL	B2H1368	RC-G
Sodium	4.9	0.10	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 18:56	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/11/22 15:37	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-28
Sample Description AF36890 CGYP-2 DUP collected on 06/21/22 11:14

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	15	0.25	mg/L	5.00	08/11/22 15:57	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 16:04	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 19:01	EPA 6020B		JIP	B2H1392	RC-G
Barium	ND	0.010	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.003	0.0005	mg/L	1.00	08/10/22 19:01	EPA 6020B		JIP	B2H1392	RC-G
Boron	570	15	ug/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Calcium	240	2.5	mg/L	50.0	08/11/22 15:54	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 19:01	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.018	0.001	mg/L	1.00	08/10/22 19:01	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Iron	66	2.5	mg/L	50.0	08/11/22 15:54	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	17	0.25	mg/L	5.00	08/11/22 15:57	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.4	0.10	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 16:04	EPA 6010D		CAL	B2H1368	RC-G
Sodium	4.8	0.10	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:01	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/11/22 16:04	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-29
Sample Description AF36891 CGYP-3 collected on 06/21/22 12:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	43	5.0	mg/L	100	08/11/22 16:11	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 16:22	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 22:25	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.017	0.010	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.017	0.0005	mg/L	1.00	08/10/22 19:05	EPA 6020B		JIP	B2H1392	RC-G
Boron	9900	30	ug/L	2.00	08/11/22 16:18	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Calcium	460	5.0	mg/L	100	08/11/22 16:11	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 19:05	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.055	0.001	mg/L	1.00	08/10/22 19:05	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Iron	210	5.0	mg/L	100	08/11/22 16:11	EPA 6010D		KTH	B2H1368	RC-G
Lead	0.011	0.010	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Lithium	29	10	ug/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	19	0.25	mg/L	5.00	08/11/22 16:14	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Nickel	0.034	0.010	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.5	0.10	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 16:22	EPA 6010D		CAL	B2H1368	RC-G
Sodium	85	10	mg/L	100	08/11/22 16:11	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:05	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.054	0.010	mg/L	1.00	08/11/22 16:22	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-30
Sample Description AF36892 CGYP-4 collected on 06/21/22 13:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	18	0.25	mg/L	5.00	08/11/22 16:42	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 16:49	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 22:45	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.019	0.010	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.013	0.0005	mg/L	1.00	08/10/22 19:10	EPA 6020B		JIP	B2H1392	RC-G
Boron	4300	15	ug/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Calcium	270	5.0	mg/L	100	08/11/22 16:39	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 19:10	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.033	0.001	mg/L	1.00	08/10/22 19:10	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Iron	100	5.0	mg/L	100	08/11/22 16:39	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Lithium	39	10	ug/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	13	0.25	mg/L	5.00	08/11/22 16:42	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Nickel	0.027	0.010	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Potassium	2.5	0.10	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 16:49	EPA 6010D		CAL	B2H1368	RC-G
Sodium	77	10	mg/L	100	08/11/22 16:39	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:10	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.047	0.010	mg/L	1.00	08/11/22 16:49	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-31
Sample Description AF36893 CGYP-6 collected on 06/21/22 14:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	8.2	0.10	mg/L	2.00	08/11/22 17:03	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/11/22 17:07	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 22:49	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.29	0.010	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.019	0.0005	mg/L	1.00	08/10/22 19:15	EPA 6020B		JIP	B2H1392	RC-G
Boron	6100	30	ug/L	2.00	08/11/22 17:03	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Calcium	430	25	mg/L	500	08/11/22 19:43	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 19:15	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.117	0.001	mg/L	1.00	08/10/22 19:15	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Iron	45	2.5	mg/L	50.0	08/11/22 16:56	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Lithium	100	10	ug/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	14	0.25	mg/L	5.00	08/11/22 17:00	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Nickel	0.12	0.010	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.9	0.10	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.050	mg/L	1.00	08/11/22 17:07	EPA 6010D		CAL	B2H1368	RC-G
Sodium	98	5.0	mg/L	50.0	08/11/22 16:56	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:15	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.082	0.010	mg/L	1.00	08/11/22 17:07	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-32
Sample Description AF36908 POZ-8 collected on 06/28/22 10:50

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:18	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/22/22 22:58	EPA 6020B		JIP	B2H1392	RC-G
Barium	0.30	0.010	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.0005	mg/L	1.00	08/10/22 19:20	EPA 6020B		JIP	B2H1392	RC-G
Boron	26	15	ug/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Calcium	390	50	mg/L	1,000	08/11/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.005	mg/L	1.00	08/10/22 19:20	EPA 6020B		JIP	B2H1392	RC-G
Cobalt	0.001	0.001	mg/L	1.00	08/10/22 19:20	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Iron	9.4	0.25	mg/L	5.00	08/11/22 17:27	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Lithium	28	10	ug/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	9.4	0.25	mg/L	5.00	08/11/22 17:27	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Potassium	5.4	0.10	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:18	EPA 6010D		CAL	B2H1368	RC-G
Sodium	46	5.0	mg/L	50.0	08/11/22 17:24	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:20	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 19:18	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-33
Sample Description AF36885 CCMLF-1 collected on 06/29/22 09:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:35	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/10/22 19:35	EPA 6020B		JIP	B2H1392	RC-G
Barium	0.082	0.010	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 22:54	EPA 6020B	X	JIP	B2H1392	RC-G
Boron	18	15	ug/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Calcium	25	0.50	mg/L	10.0	08/11/22 14:52	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 22:54	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 22:54	EPA 6020B	X	JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Iron	0.32	0.050	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	1.1	0.050	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.2	0.10	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:35	EPA 6010D		CAL	B2H1368	RC-G
Sodium	3.9	0.10	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:35	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 19:35	EPA 6010D		KTH	B2H1368	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-34
Sample Description AF36873 CAP-12 collected on 06/21/22 15:18

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:38	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 22:59	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.18	0.010	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 22:59	EPA 6020B	X	JIP	B2H1392	RC-G
Boron	26	15	ug/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Calcium	340	25	mg/L	500	08/11/22 17:34	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 22:59	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 22:59	EPA 6020B	X	JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Iron	2.0	0.050	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	3.7	0.050	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Potassium	2.1	0.10	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:38	EPA 6010D		CAL	B2H1368	RC-G
Sodium	16	1.0	mg/L	10.0	08/11/22 17:37	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:40	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 19:38	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 15:05	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-35
Sample Description AF36875 CAP-14 collected on 06/22/22 09:39

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:42	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 23:04	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.071	0.010	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 23:04	EPA 6020B	X	JIP	B2H1392	RC-G
Boron	ND	15	ug/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Calcium	110	2.5	mg/L	50.0	08/11/22 17:44	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 23:04	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 23:04	EPA 6020B	X	JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Iron	1.5	0.050	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	1.6	0.050	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.56	0.10	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:42	EPA 6010D		CAL	B2H1368	RC-G
Sodium	8.2	1.0	mg/L	10.0	08/11/22 17:48	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:45	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 19:42	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 15:09	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-36
Sample Description AF36872 CAP-11 collected on 06/22/22 13:57

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.19	0.050	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:45	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 23:24	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.12	0.010	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.001	0.001	mg/L	2.00	08/16/22 23:24	EPA 6020B		JIP	B2H1392	RC-G
Boron	15	15	ug/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Calcium	16	0.50	mg/L	10.0	08/11/22 18:08	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 23:24	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	0.006	0.004	mg/L	2.00	08/16/22 23:24	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Iron	0.60	0.050	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Lithium	33	10	ug/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	0.80	0.050	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.58	0.10	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:45	EPA 6010D		CAL	B2H1368	RC-G
Sodium	43	1.0	mg/L	10.0	08/11/22 18:08	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:49	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.034	0.010	mg/L	1.00	08/09/22 19:45	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 15:14	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-37
Sample Description AF36862 CAP-2 collected on 06/22/22 12:02

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:49	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 23:28	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.045	0.010	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 23:28	EPA 6020B	X	JIP	B2H1392	RC-G
Boron	7800	150	ug/L	10.0	08/11/22 18:18	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Calcium	630	50	mg/L	1,000	08/11/22 19:53	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 23:28	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	0.011	0.004	mg/L	2.00	08/16/22 23:28	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Iron	1.9	0.050	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Lithium	19	10	ug/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	59	5.0	mg/L	100	08/11/22 18:15	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Nickel	0.013	0.010	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Potassium	7.1	0.10	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:49	EPA 6010D		CAL	B2H1368	RC-G
Sodium	120	10	mg/L	100	08/11/22 18:15	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.004	mg/L	2.00	08/16/22 23:28	EPA 6020B	X	JIP	B2H1392	RC-G
Zinc	0.013	0.010	mg/L	1.00	08/09/22 19:49	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 17:48	EPA 6020B	X	JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-38
Sample Description AF36874 CAP-13 collected on 06/22/22 10:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.22	0.050	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:52	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 23:33	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.10	0.010	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 23:33	EPA 6020B	X	JIP	B2H1392	RC-G
Boron	23	15	ug/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Calcium	21	0.50	mg/L	10.0	08/11/22 18:25	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 23:33	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 23:33	EPA 6020B	X	JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Iron	11	0.50	mg/L	10.0	08/11/22 18:25	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	0.93	0.050	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.3	0.10	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:52	EPA 6010D		CAL	B2H1368	RC-G
Sodium	7.0	1.0	mg/L	10.0	08/11/22 18:25	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 19:59	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 19:52	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/13/22 15:23	EPA 6020B		JIP	B2H1455	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-39
Sample Description AF36861 CAP-1 collected on 06/22/22 12:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	11	0.50	mg/L	10.0	08/11/22 18:35	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 19:56	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 23:38	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.020	0.010	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	0.010	0.001	mg/L	2.00	08/16/22 23:38	EPA 6020B		JIP	B2H1392	RC-G
Boron	590	15	ug/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Calcium	270	5.0	mg/L	100	08/11/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 23:38	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	0.023	0.004	mg/L	2.00	08/16/22 23:38	EPA 6020B		JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Iron	52	5.0	mg/L	100	08/11/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Lithium	98	10	ug/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	8.1	0.50	mg/L	10.0	08/11/22 18:35	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Nickel	0.015	0.010	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Potassium	0.70	0.10	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 19:56	EPA 6010D		CAL	B2H1368	RC-G
Sodium	66	10	mg/L	100	08/11/22 18:32	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 20:03	EPA 6020B		JIP	B2H1392	RC-G
Zinc	0.023	0.010	mg/L	1.00	08/09/22 19:56	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/15/22 17:04	EPA 6020B		JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-40
Sample Description AF36871 CAP-10 collected on 06/22/22 14:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Antimony	ND	0.050	mg/L	1.00	08/09/22 20:00	EPA 6010D		CAL	B2H1368	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 23:43	EPA 6020B	X	JIP	B2H1392	RC-G
Barium	0.085	0.010	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 23:43	EPA 6020B	X	JIP	B2H1392	RC-G
Boron	220	15	ug/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Calcium	100	5.0	mg/L	100	08/11/22 18:52	EPA 6010D		KTH	B2H1368	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 23:43	EPA 6020B	X	JIP	B2H1392	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 23:43	EPA 6020B	X	JIP	B2H1392	RC-G
Copper	ND	0.010	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Iron	1.5	0.050	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Lead	ND	0.010	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Lithium	ND	10	ug/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Magnesium	2.0	0.050	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Molybdenum	ND	10	ug/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Nickel	ND	0.010	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Potassium	1.1	0.10	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Selenium	ND	0.020	mg/L	1.00	08/09/22 20:00	EPA 6010D		CAL	B2H1368	RC-G
Sodium	13	1.0	mg/L	10.0	08/11/22 18:55	EPA 6010D		KTH	B2H1368	RC-G
Thallium	ND	0.001	mg/L	1.00	08/10/22 20:08	EPA 6020B		JIP	B2H1392	RC-G
Zinc	ND	0.010	mg/L	1.00	08/09/22 20:00	EPA 6010D		KTH	B2H1368	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/15/22 17:17	EPA 6020B		JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-41
Sample Description AF36869 CAP-9 collected on 06/22/22 15:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	21	0.25	mg/L	5.00	08/13/22 15:43	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:07	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.016	0.010	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Beryllium	0.019	0.001	mg/L	2.00	08/16/22 21:07	EPA 6020B		JIP	B2H1404	RC-G
Boron	4500	15	ug/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Calcium	500	25	mg/L	500	08/13/22 15:22	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:07	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	0.042	0.004	mg/L	2.00	08/16/22 21:07	EPA 6020B		JIP	B2H1404	RC-G
Copper	0.005	0.005	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Iron	120	2.5	mg/L	50.0	08/13/22 15:33	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Lithium	37	10	ug/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Magnesium	59	2.5	mg/L	50.0	08/13/22 15:33	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Nickel	0.024	0.010	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Potassium	6.9	0.20	mg/L	2.00	08/16/22 16:04	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Sodium	130	5.0	mg/L	50.0	08/13/22 15:33	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 18:49	EPA 6020B		JIP	B2H1404	RC-G
Zinc	0.072	0.010	mg/L	1.00	08/13/22 15:53	EPA 6010D	S1	CAL	B2H1406	RC-G
Rebatch Sample Number: 22H0490-41RE1										
Antimony	ND	0.050	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	CAL	B2H1706	RC-G
Barium	0.017	0.010	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Boron	4500	15	ug/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Copper	0.010	0.005	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Lead	ND	0.010	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Lithium	38	10	ug/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Molybdenum	ND	10	ug/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Nickel	0.025	0.010	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Selenium	ND	0.020	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	CAL	B2H1706	RC-G
Zinc	0.074	0.010	mg/L	1.00	08/17/22 16:56	EPA 6010D	S1	KTH	B2H1706	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 17:52	EPA 6020B	X	JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-42
Sample Description AF36870 CAP-9 DUP collected on 06/22/22 15:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	22	0.25	mg/L	5.00	08/13/22 16:49	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:12	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.016	0.010	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	0.019	0.001	mg/L	2.00	08/16/22 21:12	EPA 6020B		JIP	B2H1404	RC-G
Boron	4500	15	ug/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Calcium	550	25	mg/L	500	08/13/22 16:35	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:12	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	0.042	0.004	mg/L	2.00	08/16/22 21:12	EPA 6020B		JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Iron	130	2.5	mg/L	50.0	08/13/22 16:42	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Lithium	38	10	ug/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	62	2.5	mg/L	50.0	08/13/22 16:42	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Nickel	0.023	0.010	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Potassium	5.9	0.10	mg/L	1.00	08/16/22 16:22	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Sodium	140	5.0	mg/L	50.0	08/13/22 16:42	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 18:54	EPA 6020B		JIP	B2H1404	RC-G
Zinc	0.076	0.010	mg/L	1.00	08/13/22 16:56	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 17:57	EPA 6020B	X	JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-43
Sample Description AF36868 CAP-8 collected on 06/23/22 10:05

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.078	0.050	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:16	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.057	0.010	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 21:16	EPA 6020B	X	JIP	B2H1404	RC-G
Boron	21000	75	ug/L	5.00	08/13/22 16:52	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Calcium	850	25	mg/L	500	08/13/22 16:38	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:16	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	0.037	0.004	mg/L	2.00	08/16/22 21:16	EPA 6020B		JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Iron	11	0.25	mg/L	5.00	08/13/22 16:52	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Lithium	68	10	ug/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	150	2.5	mg/L	50.0	08/13/22 16:45	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Nickel	0.019	0.010	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Potassium	18	0.10	mg/L	1.00	08/16/22 16:26	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Sodium	170	5.0	mg/L	50.0	08/13/22 16:45	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 19:00	EPA 6020B		JIP	B2H1404	RC-G
Zinc	ND	0.010	mg/L	1.00	08/13/22 17:00	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 18:15	EPA 6020B	X	JIP	B2H1456	RC-G



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1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-44
Sample Description AF36867 CAP-7 collected on 06/23/22 11:16

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.14	0.050	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:21	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.038	0.010	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 21:21	EPA 6020B	X	JIP	B2H1404	RC-G
Boron	32000	750	ug/L	50.0	08/13/22 17:27	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Calcium	1200	25	mg/L	500	08/13/22 17:20	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:21	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	0.013	0.004	mg/L	2.00	08/16/22 21:21	EPA 6020B		JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Iron	230	2.5	mg/L	50.0	08/13/22 17:27	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Lithium	ND	10	ug/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	380	25	mg/L	500	08/13/22 17:20	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Nickel	ND	0.010	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Potassium	29	0.10	mg/L	1.00	08/16/22 16:30	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Sodium	180	5.0	mg/L	50.0	08/13/22 17:27	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.004	mg/L	2.00	08/16/22 21:21	EPA 6020B	X	JIP	B2H1404	RC-G
Zinc	ND	0.010	mg/L	1.00	08/13/22 17:41	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/16/22 22:01	EPA 6020B	X	JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-45
Sample Description AF36866 CAP-6 collected on 06/23/22 12:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:26	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.31	0.010	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 21:26	EPA 6020B	X	JIP	B2H1404	RC-G
Boron	4200	15	ug/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Calcium	410	25	mg/L	500	08/13/22 17:23	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:26	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 21:26	EPA 6020B	X	JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Iron	14	0.25	mg/L	5.00	08/13/22 17:37	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Lithium	ND	10	ug/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	13	0.25	mg/L	5.00	08/13/22 17:37	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Nickel	ND	0.010	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Potassium	2.4	0.10	mg/L	1.00	08/16/22 16:50	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Sodium	64	5.0	mg/L	50.0	08/13/22 17:30	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 19:31	EPA 6020B		JIP	B2H1404	RC-G
Zinc	ND	0.010	mg/L	1.00	08/13/22 17:45	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 18:24	EPA 6020B	X	JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-46
Sample Description AF36865 CAP-5 collected on 06/23/22 13:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	5.6	0.25	mg/L	5.00	08/13/22 18:19	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:31	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	1.3	0.010	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	0.005	0.001	mg/L	2.00	08/16/22 21:31	EPA 6020B		JIP	B2H1404	RC-G
Boron	140	15	ug/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Calcium	150	2.5	mg/L	50.0	08/13/22 18:12	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:31	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	0.014	0.004	mg/L	2.00	08/16/22 21:31	EPA 6020B		JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Iron	130	2.5	mg/L	50.0	08/13/22 18:12	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Lithium	12	10	ug/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	4.8	0.050	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Nickel	0.017	0.010	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Potassium	1.1	0.10	mg/L	1.00	08/16/22 16:54	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Sodium	73	5.0	mg/L	50.0	08/13/22 18:12	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 19:36	EPA 6020B		JIP	B2H1404	RC-G
Zinc	ND	0.010	mg/L	1.00	08/13/22 18:26	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/15/22 18:29	EPA 6020B	X	JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-47
Sample Description AF36864 CAP-4 collected on 06/23/22 14:49

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:51	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.11	0.010	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 21:51	EPA 6020B	X	JIP	B2H1404	RC-G
Boron	11000	75	ug/L	5.00	08/13/22 18:22	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Calcium	660	25	mg/L	500	08/13/22 18:08	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:51	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	ND	0.004	mg/L	2.00	08/16/22 21:51	EPA 6020B	X	JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Iron	13	0.25	mg/L	5.00	08/13/22 18:22	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Lithium	25	10	ug/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	79	2.5	mg/L	50.0	08/13/22 18:15	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Nickel	ND	0.010	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Potassium	14	0.10	mg/L	1.00	08/16/22 16:58	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Sodium	120	5.0	mg/L	50.0	08/13/22 18:15	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 19:41	EPA 6020B		JIP	B2H1404	RC-G
Zinc	ND	0.010	mg/L	1.00	08/13/22 18:29	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/16/22 22:05	EPA 6020B	X	JIP	B2H1456	RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Number 22H0490-48
Sample Description AF36863 CAP-3 collected on 06/23/22 16:08

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Antimony	ND	0.050	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Arsenic	ND	0.010	mg/L	2.00	08/16/22 21:56	EPA 6020B	X	JIP	B2H1404	RC-G
Barium	0.084	0.010	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Beryllium	ND	0.001	mg/L	2.00	08/16/22 21:56	EPA 6020B	X	JIP	B2H1404	RC-G
Boron	6100	75	ug/L	5.00	08/13/22 18:57	EPA 6010D		CAL	B2H1406	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Calcium	560	25	mg/L	500	08/13/22 18:50	EPA 6010D		CAL	B2H1406	RC-G
Chromium	ND	0.010	mg/L	2.00	08/16/22 21:56	EPA 6020B	X	JIP	B2H1404	RC-G
Cobalt	0.030	0.004	mg/L	2.00	08/16/22 21:56	EPA 6020B		JIP	B2H1404	RC-G
Copper	ND	0.005	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Iron	1.2	0.050	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Lead	ND	0.010	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Lithium	10	10	ug/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Magnesium	58	2.5	mg/L	50.0	08/13/22 18:53	EPA 6010D		CAL	B2H1406	RC-G
Molybdenum	ND	10	ug/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Nickel	0.015	0.010	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Potassium	6.1	0.10	mg/L	1.00	08/16/22 17:01	EPA 6010D		CAL	B2H1406	RC-G
Selenium	ND	0.020	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Sodium	81	5.0	mg/L	50.0	08/13/22 18:53	EPA 6010D		CAL	B2H1406	RC-G
Thallium	ND	0.001	mg/L	1.00	08/17/22 19:46	EPA 6020B		JIP	B2H1404	RC-G
Zinc	0.023	0.010	mg/L	1.00	08/13/22 19:00	EPA 6010D		CAL	B2H1406	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	08/16/22 22:10	EPA 6020B	X	JIP	B2H1456	RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1367 - EPA 3005A

Blank (B2H1367-BLK1)

Aluminum	ND	0.050	mg/L								RC-G
Antimony	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.010	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Selenium	ND	0.020	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H1367-BS1)

Aluminum	0.48	0.050	mg/L	0.500	97	80-120					RC-G
Antimony	0.52	0.050	mg/L	0.500	104	80-120					RC-G
Barium	0.49	0.010	mg/L	0.500	99	80-120					RC-G
Boron	490	15	ug/L	500	98	80-120					RC-G
Cadmium	0.48	0.004	mg/L	0.500	97	80-120					RC-G
Calcium	0.50	0.050	mg/L	0.500	101	80-120					RC-G
Copper	0.49	0.010	mg/L	0.500	99	80-120					RC-G
Iron	0.49	0.050	mg/L	0.500	97	80-120					RC-G
Lead	0.49	0.010	mg/L	0.500	98	80-120					RC-G
Lithium	480	10	ug/L	500	96	80-120					RC-G
Magnesium	0.49	0.050	mg/L	0.500	97	80-120					RC-G
Molybdenum	480	10	ug/L	500	95	80-120					RC-G
Nickel	0.49	0.010	mg/L	0.500	98	80-120					RC-G
Potassium	5.2	0.10	mg/L	5.00	104	80-120					RC-G
Selenium	0.47	0.020	mg/L	0.500	94	80-120					RC-G
Sodium	0.49	0.10	mg/L	0.500	98	80-120					RC-G
Zinc	0.49	0.010	mg/L	0.500	98	80-120					RC-G



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Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1367 - EPA 3005A

Matrix Spike (B2H1367-MS1)	Source: 22H0490-01									
Aluminum	0.48	0.050	mg/L	0.500	ND	90	75-125			RC-G
Antimony	0.46	0.050	mg/L	0.500	ND	92	75-125			RC-G
Barium	0.51	0.010	mg/L	0.500	0.087	86	75-125			RC-G
Boron	460	15	ug/L	500	22	88	75-125			RC-G
Cadmium	0.42	0.004	mg/L	0.500	ND	84	75-125			RC-G
Calcium	130	0.050	mg/L	0.500	310	NR	75-125		S3	RC-G
Copper	0.45	0.010	mg/L	0.500	ND	89	75-125			RC-G
Iron	0.86	0.050	mg/L	0.500	0.42	87	75-125			RC-G
Lead	0.41	0.010	mg/L	0.500	ND	82	75-125			RC-G
Lithium	537	10	ug/L	500	13	105	75-125			RC-G
Magnesium	5.8	0.050	mg/L	0.500	5.8	16	75-125		S3	RC-G
Molybdenum	420	10	ug/L	500	ND	84	75-125			RC-G
Nickel	0.42	0.010	mg/L	0.500	0.012	82	75-125			RC-G
Potassium	11	0.10	mg/L	5.00	4.9	117	75-125			RC-G
Selenium	0.41	0.020	mg/L	0.500	ND	82	75-125			RC-G
Sodium	59	0.10	mg/L	0.500	89	NR	75-125		S3	RC-G
Zinc	0.42	0.010	mg/L	0.500	ND	83	75-125			RC-G

Matrix Spike (B2H1367-MS2)	Source: 22H0490-02									
Aluminum	0.59	0.050	mg/L	0.500	0.068	105	75-125			RC-G
Antimony	0.53	0.050	mg/L	0.500	ND	106	75-125			RC-G
Barium	0.55	0.010	mg/L	0.500	0.058	99	75-125			RC-G
Boron	550	15	ug/L	500	44	102	75-125			RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125			RC-G
Calcium	180	0.050	mg/L	0.500	470	NR	75-125		S3	RC-G
Copper	0.52	0.010	mg/L	0.500	ND	105	75-125			RC-G
Iron	12	0.050	mg/L	0.500	13	NR	75-125		S3	RC-G
Lead	0.48	0.010	mg/L	0.500	ND	96	75-125			RC-G
Lithium	604	10	ug/L	500	ND	119	75-125			RC-G
Magnesium	8.1	0.050	mg/L	0.500	8.8	NR	75-125		S3	RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125			RC-G
Nickel	0.48	0.010	mg/L	0.500	ND	95	75-125			RC-G
Potassium	8.4	0.10	mg/L	5.00	1.7	133	75-125		S1	RC-G
Selenium	0.47	0.020	mg/L	0.500	ND	95	75-125			RC-G
Sodium	57	0.10	mg/L	0.500	69	NR	75-125		S3	RC-G
Zinc	0.47	0.010	mg/L	0.500	ND	94	75-125			RC-G



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1367 - EPA 3005A

Matrix Spike Dup (B2H1367-MSD1) Source: 22H0490-01

Aluminum	0.47	0.050	mg/L	0.500	ND	88	75-125	2	20		RC-G
Antimony	0.46	0.050	mg/L	0.500	ND	92	75-125	0.2	20		RC-G
Barium	0.52	0.010	mg/L	0.500	0.087	86	75-125	0.4	20		RC-G
Boron	470	15	ug/L	500	22	89	75-125	0.8	20		RC-G
Cadmium	0.42	0.004	mg/L	0.500	ND	85	75-125	0.7	20		RC-G
Calcium	130	0.050	mg/L	0.500	310	NR	75-125	0.9	20	S3	RC-G
Copper	0.45	0.010	mg/L	0.500	ND	90	75-125	0.7	20		RC-G
Iron	0.88	0.050	mg/L	0.500	0.42	91	75-125	2	20		RC-G
Lead	0.41	0.010	mg/L	0.500	ND	83	75-125	0.7	20		RC-G
Lithium	533	10	ug/L	500	13	104	75-125	0.7	20		RC-G
Magnesium	5.8	0.050	mg/L	0.500	5.8	7	75-125	0.7	20	S3	RC-G
Molybdenum	420	10	ug/L	500	ND	85	75-125	1	20		RC-G
Nickel	0.43	0.010	mg/L	0.500	0.012	83	75-125	1	20		RC-G
Potassium	11	0.10	mg/L	5.00	4.9	117	75-125	0.2	20		RC-G
Selenium	0.42	0.020	mg/L	0.500	ND	84	75-125	1	20		RC-G
Sodium	59	0.10	mg/L	0.500	89	NR	75-125	1	20	S3	RC-G
Zinc	0.43	0.010	mg/L	0.500	ND	85	75-125	2	20		RC-G

Matrix Spike Dup (B2H1367-MSD2) Source: 22H0490-02

Aluminum	0.60	0.050	mg/L	0.500	0.068	106	75-125	1	20		RC-G
Antimony	0.52	0.050	mg/L	0.500	ND	104	75-125	1	20		RC-G
Barium	0.54	0.010	mg/L	0.500	0.058	96	75-125	3	20		RC-G
Boron	540	15	ug/L	500	44	99	75-125	3	20		RC-G
Cadmium	0.48	0.004	mg/L	0.500	ND	95	75-125	3	20		RC-G
Calcium	180	0.050	mg/L	0.500	470	NR	75-125	2	20	S3	RC-G
Copper	0.51	0.010	mg/L	0.500	ND	102	75-125	3	20		RC-G
Iron	12	0.050	mg/L	0.500	13	NR	75-125	3	20	S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	93	75-125	4	20		RC-G
Lithium	582	10	ug/L	500	ND	115	75-125	4	20		RC-G
Magnesium	7.8	0.050	mg/L	0.500	8.8	NR	75-125	3	20	S3	RC-G
Molybdenum	480	10	ug/L	500	ND	96	75-125	2	20		RC-G
Nickel	0.46	0.010	mg/L	0.500	ND	93	75-125	2	20		RC-G
Potassium	8.3	0.10	mg/L	5.00	1.7	133	75-125	0.4	20	S1	RC-G
Selenium	0.47	0.020	mg/L	0.500	ND	94	75-125	0.6	20		RC-G
Sodium	56	0.10	mg/L	0.500	69	NR	75-125	3	20	S3	RC-G
Zinc	0.46	0.010	mg/L	0.500	ND	91	75-125	2	20		RC-G



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Project: Ground Water
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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1368 - EPA 3005A

Blank (B2H1368-BLK1)

Aluminum	ND	0.050	mg/L								RC-G
Antimony	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.010	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Selenium	ND	0.020	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H1368-BS1)

Aluminum	0.47	0.050	mg/L	0.500	94	80-120					RC-G
Antimony	0.50	0.050	mg/L	0.500	99	80-120					RC-G
Barium	0.48	0.010	mg/L	0.500	96	80-120					RC-G
Boron	470	15	ug/L	500	95	80-120					RC-G
Cadmium	0.47	0.004	mg/L	0.500	94	80-120					RC-G
Calcium	0.49	0.050	mg/L	0.500	99	80-120					RC-G
Copper	0.48	0.010	mg/L	0.500	95	80-120					RC-G
Iron	0.47	0.050	mg/L	0.500	94	80-120					RC-G
Lead	0.48	0.010	mg/L	0.500	95	80-120					RC-G
Lithium	486	10	ug/L	500	97	80-120					RC-G
Magnesium	0.47	0.050	mg/L	0.500	94	80-120					RC-G
Molybdenum	460	10	ug/L	500	93	80-120					RC-G
Nickel	0.47	0.010	mg/L	0.500	94	80-120					RC-G
Potassium	5.1	0.10	mg/L	5.00	101	80-120					RC-G
Selenium	0.46	0.020	mg/L	0.500	92	80-120					RC-G
Sodium	0.48	0.10	mg/L	0.500	95	80-120					RC-G
Zinc	0.47	0.010	mg/L	0.500	95	80-120					RC-G



Santee Cooper
1 Riverwood Dr.
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Project: Ground Water
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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1368 - EPA 3005A

Matrix Spike (B2H1368-MS1)	Source: 22H0490-21										
Aluminum	0.53	0.050	mg/L	0.500	ND	101	75-125				RC-G
Antimony	0.54	0.050	mg/L	0.500	ND	109	75-125				RC-G
Barium	0.67	0.010	mg/L	0.500	0.17	101	75-125				RC-G
Boron	540	15	ug/L	500	26	103	75-125				RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Calcium	55	0.050	mg/L	0.500	89	NR	75-125		S3		RC-G
Copper	0.52	0.010	mg/L	0.500	ND	103	75-125				RC-G
Iron	3.3	0.050	mg/L	0.500	2.8	92	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	101	75-125				RC-G
Lithium	511	10	ug/L	500	ND	102	75-125				RC-G
Magnesium	2.9	0.050	mg/L	0.500	2.5	87	75-125				RC-G
Molybdenum	500	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	6.7	0.10	mg/L	5.00	0.98	114	75-125				RC-G
Selenium	0.48	0.020	mg/L	0.500	ND	97	75-125				RC-G
Sodium	13	0.10	mg/L	0.500	15	NR	75-125		S3		RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G

Matrix Spike (B2H1368-MS2)	Source: 22H0490-22										
Aluminum	0.52	0.050	mg/L	0.500	ND	101	75-125				RC-G
Antimony	0.53	0.050	mg/L	0.500	ND	106	75-125				RC-G
Barium	0.66	0.010	mg/L	0.500	0.16	100	75-125				RC-G
Boron	530	15	ug/L	500	25	101	75-125				RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125				RC-G
Calcium	55	0.050	mg/L	0.500	85	NR	75-125		S3		RC-G
Copper	0.51	0.010	mg/L	0.500	ND	102	75-125				RC-G
Iron	3.1	0.050	mg/L	0.500	2.6	101	75-125				RC-G
Lead	0.49	0.010	mg/L	0.500	ND	98	75-125				RC-G
Lithium	520	10	ug/L	500	ND	104	75-125				RC-G
Magnesium	2.9	0.050	mg/L	0.500	2.4	96	75-125				RC-G
Molybdenum	500	10	ug/L	500	ND	99	75-125				RC-G
Nickel	0.49	0.010	mg/L	0.500	ND	98	75-125				RC-G
Potassium	6.6	0.10	mg/L	5.00	0.95	112	75-125				RC-G
Selenium	0.48	0.020	mg/L	0.500	ND	96	75-125				RC-G
Sodium	13	0.10	mg/L	0.500	14	NR	75-125		S3		RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	99	75-125				RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1368 - EPA 3005A

Matrix Spike Dup (B2H1368-MSD1) Source: 22H0490-21

Aluminum	0.52	0.050	mg/L	0.500	ND	101	75-125	0.5	20		RC-G
Antimony	0.53	0.050	mg/L	0.500	ND	106	75-125	3	20		RC-G
Barium	0.67	0.010	mg/L	0.500	0.17	100	75-125	0.4	20		RC-G
Boron	530	15	ug/L	500	26	102	75-125	1	20		RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	99	75-125	1	20		RC-G
Calcium	55	0.050	mg/L	0.500	89	NR	75-125	1	20	S3	RC-G
Copper	0.51	0.010	mg/L	0.500	ND	102	75-125	1	20		RC-G
Iron	3.3	0.050	mg/L	0.500	2.8	95	75-125	0.5	20		RC-G
Lead	0.49	0.010	mg/L	0.500	ND	99	75-125	2	20		RC-G
Lithium	526	10	ug/L	500	ND	105	75-125	3	20		RC-G
Magnesium	3.0	0.050	mg/L	0.500	2.5	91	75-125	0.7	20		RC-G
Molybdenum	500	10	ug/L	500	ND	100	75-125	0.5	20		RC-G
Nickel	0.49	0.010	mg/L	0.500	ND	98	75-125	2	20		RC-G
Potassium	6.6	0.10	mg/L	5.00	0.98	113	75-125	0.4	20		RC-G
Selenium	0.48	0.020	mg/L	0.500	ND	97	75-125	0.1	20		RC-G
Sodium	13	0.10	mg/L	0.500	15	NR	75-125	0.5	20	S3	RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	99	75-125	1	20		RC-G

Matrix Spike Dup (B2H1368-MSD2) Source: 22H0490-22

Aluminum	0.50	0.050	mg/L	0.500	ND	96	75-125	5	20		RC-G
Antimony	0.51	0.050	mg/L	0.500	ND	101	75-125	5	20		RC-G
Barium	0.63	0.010	mg/L	0.500	0.16	95	75-125	4	20		RC-G
Boron	510	15	ug/L	500	25	98	75-125	4	20		RC-G
Cadmium	0.47	0.004	mg/L	0.500	ND	94	75-125	4	20		RC-G
Calcium	54	0.050	mg/L	0.500	85	NR	75-125	2	20	S3	RC-G
Copper	0.49	0.010	mg/L	0.500	ND	98	75-125	4	20		RC-G
Iron	3.0	0.050	mg/L	0.500	2.6	84	75-125	3	20		RC-G
Lead	0.47	0.010	mg/L	0.500	ND	95	75-125	4	20		RC-G
Lithium	502	10	ug/L	500	ND	100	75-125	4	20		RC-G
Magnesium	2.8	0.050	mg/L	0.500	2.4	81	75-125	3	20		RC-G
Molybdenum	480	10	ug/L	500	ND	96	75-125	3	20		RC-G
Nickel	0.47	0.010	mg/L	0.500	ND	93	75-125	5	20		RC-G
Potassium	6.3	0.10	mg/L	5.00	0.95	108	75-125	4	20		RC-G
Selenium	0.46	0.020	mg/L	0.500	ND	92	75-125	4	20		RC-G
Sodium	13	0.10	mg/L	0.500	14	NR	75-125	2	20	S3	RC-G
Zinc	0.47	0.010	mg/L	0.500	ND	95	75-125	5	20		RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1391 - EPA 3005A Mod

Blank (B2H1391-BLK1)

Arsenic	ND	0.005	mg/L								RC-G
Beryllium	ND	0.0005	mg/L								RC-G
Chromium	ND	0.005	mg/L								RC-G
Cobalt	ND	0.001	mg/L								RC-G
Thallium	ND	0.001	mg/L								RC-G

LCS (B2H1391-BS1)

Arsenic	0.209	0.005	mg/L	0.200	105	80-120					RC-G
Beryllium	0.194	0.0005	mg/L	0.200	97	80-120					RC-G
Chromium	0.207	0.005	mg/L	0.200	103	80-120					RC-G
Cobalt	0.207	0.001	mg/L	0.200	104	80-120					RC-G
Thallium	0.197	0.001	mg/L	0.200	98	80-120					RC-G

Matrix Spike (B2H1391-MS1)

Source: 22H0490-05

Arsenic	0.218	0.005	mg/L	0.200	ND	108	75-125				RC-G
Beryllium	0.167	0.0005	mg/L	0.200	ND	83	75-125				RC-G
Chromium	0.183	0.005	mg/L	0.200	ND	92	75-125				RC-G
Cobalt	0.180	0.001	mg/L	0.200	0.002	89	75-125				RC-G
Thallium	0.168	0.001	mg/L	0.200	ND	84	75-125				RC-G

Matrix Spike (B2H1391-MS2)

Source: 22H0490-08

Arsenic	0.233	0.005	mg/L	0.200	ND	116	75-125				RC-G
Beryllium	0.177	0.0005	mg/L	0.200	ND	88	75-125				RC-G
Chromium	0.196	0.005	mg/L	0.200	ND	98	75-125				RC-G
Cobalt	0.200	0.001	mg/L	0.200	0.008	96	75-125				RC-G
Thallium	0.186	0.001	mg/L	0.200	ND	93	75-125				RC-G

Matrix Spike Dup (B2H1391-MSD1)

Source: 22H0490-05

Arsenic	0.223	0.005	mg/L	0.200	ND	111	75-125	3	20		RC-G
Beryllium	0.169	0.0005	mg/L	0.200	ND	85	75-125	2	20		RC-G
Chromium	0.185	0.005	mg/L	0.200	ND	92	75-125	0.9	20		RC-G
Cobalt	0.182	0.001	mg/L	0.200	0.002	90	75-125	0.7	20		RC-G
Thallium	0.171	0.001	mg/L	0.200	ND	85	75-125	2	20		RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1391 - EPA 3005A Mod

Matrix Spike Dup (B2H1391-MSD2) Source: 22H0490-08

Arsenic	0.229	0.005	mg/L	0.200	ND	114	75-125	2	20	RC-G
Beryllium	0.174	0.0005	mg/L	0.200	ND	87	75-125	1	20	RC-G
Chromium	0.191	0.005	mg/L	0.200	ND	95	75-125	3	20	RC-G
Cobalt	0.195	0.001	mg/L	0.200	0.008	93	75-125	2	20	RC-G
Thallium	0.183	0.001	mg/L	0.200	ND	91	75-125	2	20	RC-G

Batch B2H1392 - EPA 3005A Mod

Blank (B2H1392-BLK1)

Arsenic	ND	0.005	mg/L							RC-G
Beryllium	ND	0.0005	mg/L							RC-G
Chromium	ND	0.005	mg/L							RC-G
Cobalt	ND	0.001	mg/L							RC-G
Thallium	ND	0.001	mg/L							RC-G

LCS (B2H1392-BS1)

Arsenic	0.204	0.005	mg/L	0.200		102	80-120			RC-G
Beryllium	0.199	0.0005	mg/L	0.200		99	80-120			RC-G
Chromium	0.203	0.005	mg/L	0.200		101	80-120			RC-G
Cobalt	0.204	0.001	mg/L	0.200		102	80-120			RC-G
Thallium	0.194	0.001	mg/L	0.200		97	80-120			RC-G

Matrix Spike (B2H1392-MS1) Source: 22H0490-24

Arsenic	0.207	0.005	mg/L	0.200	ND	103	75-125			RC-G
Thallium	0.191	0.001	mg/L	0.200	ND	96	75-125			RC-G

Matrix Spike (B2H1392-MS2) Source: 22H0490-25

Arsenic	0.210	0.005	mg/L	0.200	ND	103	75-125			RC-G
Beryllium	0.175	0.0005	mg/L	0.200	ND	88	75-125			RC-G
Chromium	0.187	0.005	mg/L	0.200	ND	94	75-125			RC-G
Cobalt	0.184	0.001	mg/L	0.200	ND	92	75-125			RC-G
Thallium	0.192	0.001	mg/L	0.200	ND	96	75-125			RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1392 - EPA 3005A Mod

Matrix Spike Dup (B2H1392-MSD1) Source: 22H0490-24

Arsenic	0.214	0.005	mg/L	0.200	ND	107	75-125	3	20	RC-G
Thallium	0.197	0.001	mg/L	0.200	ND	99	75-125	3	20	RC-G

Matrix Spike Dup (B2H1392-MSD2) Source: 22H0490-25

Arsenic	0.211	0.005	mg/L	0.200	ND	104	75-125	0.4	20	RC-G
Beryllium	0.178	0.0005	mg/L	0.200	ND	89	75-125	2	20	RC-G
Chromium	0.188	0.005	mg/L	0.200	ND	94	75-125	0.5	20	RC-G
Cobalt	0.186	0.001	mg/L	0.200	ND	93	75-125	0.6	20	RC-G
Thallium	0.190	0.001	mg/L	0.200	ND	95	75-125	1	20	RC-G

Batch B2H1404 - EPA 3005A Mod

Blank (B2H1404-BLK1)

Arsenic	ND	0.005	mg/L							RC-G
Beryllium	ND	0.0005	mg/L							RC-G
Chromium	ND	0.005	mg/L							RC-G
Cobalt	ND	0.001	mg/L							RC-G
Thallium	ND	0.001	mg/L							RC-G

LCS (B2H1404-BS1)

Arsenic	0.207	0.005	mg/L	0.200		104	80-120			RC-G
Beryllium	0.205	0.0005	mg/L	0.200		103	80-120			RC-G
Chromium	0.209	0.005	mg/L	0.200		104	80-120			RC-G
Cobalt	0.209	0.001	mg/L	0.200		104	80-120			RC-G
Thallium	0.206	0.001	mg/L	0.200		103	80-120			RC-G

Matrix Spike (B2H1404-MS1) Source: 22H0291-02RE1

Arsenic	0.216	0.005	mg/L	0.200	ND	108	75-125			RC-G
Beryllium	0.177	0.0005	mg/L	0.200	0.0005	88	75-125			RC-G
Chromium	0.185	0.005	mg/L	0.200	0.005	90	75-125			RC-G
Cobalt	0.182	0.001	mg/L	0.200	0.005	88	75-125			RC-G
Thallium	0.182	0.001	mg/L	0.200	ND	91	75-125			RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1404 - EPA 3005A Mod

Matrix Spike (B2H1404-MS2) Source: 22H0461-02

Arsenic	0.201	0.005	mg/L	0.200	ND	100	75-125			RC-G
Beryllium	0.201	0.0005	mg/L	0.200	ND	100	75-125			RC-G
Chromium	0.207	0.005	mg/L	0.200	ND	102	75-125			RC-G
Cobalt	0.205	0.001	mg/L	0.200	ND	103	75-125			RC-G
Thallium	0.204	0.001	mg/L	0.200	ND	102	75-125			RC-G

Matrix Spike Dup (B2H1404-MSD1) Source: 22H0291-02RE1

Arsenic	0.217	0.005	mg/L	0.200	ND	108	75-125	0.4	20	RC-G
Beryllium	0.177	0.0005	mg/L	0.200	0.0005	88	75-125	0.1	20	RC-G
Chromium	0.182	0.005	mg/L	0.200	0.005	89	75-125	2	20	RC-G
Cobalt	0.180	0.001	mg/L	0.200	0.005	88	75-125	0.9	20	RC-G
Thallium	0.181	0.001	mg/L	0.200	ND	90	75-125	0.5	20	RC-G

Matrix Spike Dup (B2H1404-MSD2) Source: 22H0461-02

Arsenic	0.214	0.005	mg/L	0.200	ND	106	75-125	6	20	RC-G
Beryllium	0.210	0.0005	mg/L	0.200	ND	105	75-125	4	20	RC-G
Chromium	0.216	0.005	mg/L	0.200	ND	107	75-125	4	20	RC-G
Cobalt	0.215	0.001	mg/L	0.200	ND	108	75-125	5	20	RC-G
Thallium	0.216	0.001	mg/L	0.200	ND	108	75-125	5	20	RC-G

Batch B2H1406 - EPA 3005A

Blank (B2H1406-BLK1)

Aluminum	ND	0.050	mg/L							RC-G
Antimony	ND	0.050	mg/L							RC-G
Barium	ND	0.010	mg/L							RC-G
Boron	ND	15	ug/L							RC-G
Cadmium	ND	0.004	mg/L							RC-G
Calcium	ND	0.050	mg/L							RC-G
Copper	ND	0.005	mg/L							RC-G
Iron	ND	0.050	mg/L							RC-G
Lead	ND	0.010	mg/L							RC-G
Lithium	ND	10	ug/L							RC-G
Magnesium	ND	0.050	mg/L							RC-G
Molybdenum	ND	10	ug/L							RC-G
Nickel	ND	0.010	mg/L							RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1406 - EPA 3005A

Blank (B2H1406-BLK1)

Potassium	ND	0.10	mg/L								RC-G
Selenium	ND	0.020	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G

LCS (B2H1406-BS1)

Aluminum	0.49	0.050	mg/L	0.500	98	80-120					RC-G
Antimony	0.51	0.050	mg/L	0.500	102	80-120					RC-G
Barium	0.49	0.010	mg/L	0.500	98	80-120					RC-G
Boron	490	15	ug/L	500	98	80-120					RC-G
Cadmium	0.48	0.004	mg/L	0.500	97	80-120					RC-G
Calcium	0.50	0.050	mg/L	0.500	99	80-120					RC-G
Copper	0.50	0.005	mg/L	0.500	100	80-120					RC-G
Iron	0.48	0.050	mg/L	0.500	97	80-120					RC-G
Lead	0.49	0.010	mg/L	0.500	98	80-120					RC-G
Lithium	476	10	ug/L	500	95	80-120					RC-G
Magnesium	0.49	0.050	mg/L	0.500	97	80-120					RC-G
Molybdenum	490	10	ug/L	500	98	80-120					RC-G
Nickel	0.49	0.010	mg/L	0.500	98	80-120					RC-G
Potassium	5.6	0.10	mg/L	5.00	113	80-120					RC-G
Selenium	0.48	0.020	mg/L	0.500	96	80-120					RC-G
Sodium	0.48	0.10	mg/L	0.500	97	80-120					RC-G
Zinc	0.49	0.010	mg/L	0.500	98	80-120					RC-G

Matrix Spike (B2H1406-MS1)

Source: 22H0490-41

Aluminum	15	0.050	mg/L	0.500	21	NR	75-125				S5 RC-G
Antimony	0.26	0.050	mg/L	0.500	ND	51	75-125				S1 RC-G
Barium	0.27	0.010	mg/L	0.500	0.016	50	75-125				S1 RC-G
Boron	4800	15	ug/L	500	4500	65	75-125				S1 RC-G
Cadmium	0.25	0.004	mg/L	0.500	ND	51	75-125				S1 RC-G
Calcium	100	0.050	mg/L	0.500	500	NR	75-125				S5 RC-G
Copper	0.28	0.005	mg/L	0.500	0.005	55	75-125				S1 RC-G
Iron	59	0.050	mg/L	0.500	120	NR	75-125				S5 RC-G
Lead	0.24	0.010	mg/L	0.500	ND	49	75-125				S1 RC-G
Lithium	355	10	ug/L	500	37	64	75-125				S1 RC-G
Magnesium	20	0.050	mg/L	0.500	59	NR	75-125				S5 RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1406 - EPA 3005A

Matrix Spike (B2H1406-MS1) Source: 22H0490-41

Molybdenum	250	10	ug/L	500	ND	51	75-125			S1	RC-G
Nickel	0.26	0.010	mg/L	0.500	0.024	48	75-125			S1	RC-G
Potassium	19	0.20	mg/L	5.00	6.9	248	75-125			S4	RC-G
Selenium	0.24	0.020	mg/L	0.500	ND	47	75-125			S1	RC-G
Sodium	ND	0.10	mg/L	0.500	130	NR	75-125			S5	RC-G
Zinc	0.31	0.010	mg/L	0.500	0.072	47	75-125			S1	RC-G

Matrix Spike Dup (B2H1406-MSD1) Source: 22H0490-41

Aluminum	14	0.050	mg/L	0.500	21	NR	75-125	2	20	S5	RC-G
Antimony	0.26	0.050	mg/L	0.500	ND	53	75-125	3	20	S1	RC-G
Barium	0.27	0.010	mg/L	0.500	0.016	51	75-125	2	20	S1	RC-G
Boron	4700	15	ug/L	500	4500	51	75-125	1	20	S1	RC-G
Cadmium	0.26	0.004	mg/L	0.500	ND	52	75-125	2	20	S1	RC-G
Calcium	100	0.050	mg/L	0.500	500	NR	75-125	0.9	20	S5	RC-G
Copper	0.28	0.005	mg/L	0.500	0.005	56	75-125	1	20	S1	RC-G
Iron	58	0.050	mg/L	0.500	120	NR	75-125	1	20	S5	RC-G
Lead	0.25	0.010	mg/L	0.500	ND	50	75-125	3	20	S1	RC-G
Lithium	370	10	ug/L	500	37	67	75-125	4	20	S1	RC-G
Magnesium	20	0.050	mg/L	0.500	59	NR	75-125	0.5	20	S5	RC-G
Molybdenum	260	10	ug/L	500	ND	52	75-125	3	20	S1	RC-G
Nickel	0.27	0.010	mg/L	0.500	0.024	49	75-125	2	20	S1	RC-G
Potassium	19	0.20	mg/L	5.00	6.9	243	75-125	1	20	S4	RC-G
Selenium	0.25	0.020	mg/L	0.500	ND	49	75-125	4	20	S1	RC-G
Sodium	ND	0.10	mg/L	0.500	130	NR	75-125			S5	RC-G
Zinc	0.31	0.010	mg/L	0.500	0.072	48	75-125	2	20	S1	RC-G

Batch B2H1456 - EPA 3005A Mod

Blank (B2H1456-BLK1)

Arsenic	ND	0.005	mg/L							RC-G
Thallium	ND	0.002	mg/L							RC-G

LCS (B2H1456-BS1)

Arsenic	0.212	0.005	mg/L	0.200	106	80-120			RC-G
Thallium	0.210	0.002	mg/L	0.200	105	80-120			RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1456 - EPA 3005A Mod

Matrix Spike (B2H1456-MS2) Source: 22H0490-40

Arsenic	0.211	0.005	mg/L	0.200	0.005	103	75-125			RC-G
Thallium	0.204	0.002	mg/L	0.200	ND	102	75-125			RC-G

Matrix Spike Dup (B2H1456-MSD2) Source: 22H0490-40

Arsenic	0.210	0.005	mg/L	0.200	0.005	103	75-125	0.5	20	RC-G
Thallium	0.202	0.002	mg/L	0.200	ND	101	75-125	1	20	RC-G

Batch B2H1706 - EPA 3005A

Blank (B2H1706-BLK1)

Antimony	ND	0.050	mg/L							RC-G
Barium	ND	0.010	mg/L							RC-G
Cadmium	ND	0.004	mg/L							RC-G
Copper	ND	0.005	mg/L							RC-G
Lead	ND	0.010	mg/L							RC-G
Lithium	ND	10	ug/L							RC-G
Molybdenum	ND	10	ug/L							RC-G
Nickel	ND	0.010	mg/L							RC-G
Potassium	ND	0.10	mg/L							RC-G
Selenium	ND	0.020	mg/L							RC-G
Zinc	ND	0.010	mg/L							RC-G

LCS (B2H1706-BS1)

Antimony	0.54	0.050	mg/L	0.500		107	80-120			RC-G
Barium	0.52	0.010	mg/L	0.500		103	80-120			RC-G
Cadmium	0.51	0.004	mg/L	0.500		101	80-120			RC-G
Copper	0.50	0.005	mg/L	0.500		100	80-120			RC-G
Lead	0.51	0.010	mg/L	0.500		103	80-120			RC-G
Lithium	502	10	ug/L	500		100	80-120			RC-G
Molybdenum	510	10	ug/L	500		101	80-120			RC-G
Nickel	0.51	0.010	mg/L	0.500		101	80-120			RC-G
Potassium	5.6	0.10	mg/L	5.00		111	80-120			RC-G
Selenium	0.49	0.020	mg/L	0.500		98	80-120			RC-G
Zinc	0.52	0.010	mg/L	0.500		104	80-120			RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1706 - EPA 3005A

Matrix Spike (B2H1706-MS2)	Source: 22H0490-02RE1									
Potassium	9.0	0.10	mg/L	5.00	1.9	140	75-125		S1	RC-G

Matrix Spike (B2H1706-MS5)	Source: 22H0490-41RE1									
Antimony	0.28	0.050	mg/L	0.500	ND	57	75-125		S1	RC-G
Barium	0.29	0.010	mg/L	0.500	0.017	55	75-125		S1	RC-G
Cadmium	0.27	0.004	mg/L	0.500	ND	55	75-125		S1	RC-G
Copper	0.30	0.005	mg/L	0.500	0.010	59	75-125		S1	RC-G
Lead	0.27	0.010	mg/L	0.500	ND	53	75-125		S1	RC-G
Lithium	393	10	ug/L	500	38	71	75-125		S1	RC-G
Molybdenum	270	10	ug/L	500	ND	55	75-125		S1	RC-G
Nickel	0.29	0.010	mg/L	0.500	0.025	52	75-125		S1	RC-G
Selenium	0.25	0.020	mg/L	0.500	ND	51	75-125		S1	RC-G
Zinc	0.34	0.010	mg/L	0.500	0.074	52	75-125		S1	RC-G

Matrix Spike Dup (B2H1706-MSD2)	Source: 22H0490-02RE1										
Potassium	8.7	0.10	mg/L	5.00	1.9	135	75-125	3	20	S1	RC-G

Matrix Spike Dup (B2H1706-MSD5)	Source: 22H0490-41RE1										
Antimony	0.29	0.050	mg/L	0.500	ND	58	75-125	2	20	S1	RC-G
Barium	0.29	0.010	mg/L	0.500	0.017	56	75-125	0.3	20	S1	RC-G
Cadmium	0.28	0.004	mg/L	0.500	ND	55	75-125	0.2	20	S1	RC-G
Copper	0.30	0.005	mg/L	0.500	0.010	58	75-125	0.4	20	S1	RC-G
Lead	0.27	0.010	mg/L	0.500	ND	53	75-125	0.4	20	S1	RC-G
Lithium	394	10	ug/L	500	38	71	75-125	0.2	20	S1	RC-G
Molybdenum	280	10	ug/L	500	ND	55	75-125	1	20	S1	RC-G
Nickel	0.28	0.010	mg/L	0.500	0.025	52	75-125	0.2	20	S1	RC-G
Selenium	0.25	0.020	mg/L	0.500	ND	51	75-125	0.3	20	S1	RC-G
Zinc	0.34	0.010	mg/L	0.500	0.074	53	75-125	0.3	20	S1	RC-G

Batch B2H1735 - EPA 3005A Mod

Blank (B2H1735-BLK1)										
Beryllium	ND	0.002	mg/L							RC-G
Chromium	ND	0.005	mg/L							RC-G
Cobalt	ND	0.001	mg/L							RC-G



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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1735 - EPA 3005A Mod

LCS (B2H1735-BS1)

Beryllium	0.201	0.002	mg/L	0.200	100	80-120				RC-G
Chromium	0.208	0.005	mg/L	0.200	104	80-120				RC-G
Cobalt	0.208	0.001	mg/L	0.200	104	80-120				RC-G

Matrix Spike (B2H1735-MS1) Source: 22H0490-24

Beryllium	0.196	0.002	mg/L	0.200	ND	98	75-125			RC-G
Chromium	0.195	0.010	mg/L	0.200	ND	97	75-125			RC-G
Cobalt	0.194	0.010	mg/L	0.200	ND	97	75-125			RC-G

Matrix Spike Dup (B2H1735-MSD1) Source: 22H0490-24

Beryllium	0.194	0.002	mg/L	0.200	ND	97	75-125	0.8	20	RC-G
Chromium	0.193	0.010	mg/L	0.200	ND	97	75-125	0.6	20	RC-G
Cobalt	0.192	0.010	mg/L	0.200	ND	96	75-125	1	20	RC-G



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Dissolved Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1455 - EPA 3005A Mod

Blank (B2H1455-BLK1)

Arsenic, Dissolved	ND	0.005	mg/L								RC-G
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LCS (B2H1455-BS1)

Arsenic, Dissolved	0.200	0.005	mg/L	0.200	100	80-120					RC-G
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Matrix Spike (B2H1455-MS1)

Source: 22H0490-01

Arsenic, Dissolved	0.217	0.005	mg/L	0.200	ND	109	75-125				RC-G
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Matrix Spike (B2H1455-MS2)

Source: 22H0490-02

Arsenic, Dissolved	0.228	0.005	mg/L	0.200	ND	113	75-125				RC-G
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Matrix Spike Dup (B2H1455-MSD1)

Source: 22H0490-01

Arsenic, Dissolved	0.218	0.005	mg/L	0.200	ND	109	75-125	0.4	20		RC-G
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Matrix Spike Dup (B2H1455-MSD2)

Source: 22H0490-02

Arsenic, Dissolved	0.227	0.005	mg/L	0.200	ND	113	75-125	0.4	20		RC-G
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Batch B2H1456 - EPA 3005A Mod

Blank (B2H1456-BLK1)

Arsenic, Dissolved	ND	0.005	mg/L								RC-G
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LCS (B2H1456-BS1)

Arsenic, Dissolved	0.212	0.005	mg/L	0.200	106	80-120					RC-G
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Matrix Spike (B2H1456-MS1)

Source: 22H0490-39

Arsenic, Dissolved	0.204	0.005	mg/L	0.200	ND	101	75-125				RC-G
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Matrix Spike (B2H1456-MS2)

Source: 22H0490-40

Arsenic, Dissolved	0.211	0.005	mg/L	0.200	0.005	103	75-125				RC-G
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Matrix Spike Dup (B2H1456-MSD1)

Source: 22H0490-39

Arsenic, Dissolved	0.210	0.005	mg/L	0.200	ND	105	75-125	3	20		RC-G
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Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Dissolved Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
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Batch B2H1456 - EPA 3005A Mod

Matrix Spike Dup (B2H1456-MSD2) Source: 22H0490-40

Arsenic, Dissolved	0.210	0.005	mg/L	0.200	0.005	103	75-125	0.5	20	RC-G
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Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 3005A ICP Digestion				
EPA 3005A	B2H1367	22H0490-01	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-02	08/09/2022 08:56	CAL
EPA 3005A	B2H1706	22H0490-02RE1	08/15/2022 13:49	EDM
EPA 3005A	B2H1367	22H0490-03	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-04	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-05	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-06	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-07	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-08	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-09	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-10	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-11	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-12	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-13	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-14	08/09/2022 08:56	CAL
EPA 3005A	B2H1367	22H0490-15	08/09/2022 08:56	CAL
EPA 3005A	B2H1367	22H0490-16	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-17	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-18	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-19	08/09/2022 08:56	KTH
EPA 3005A	B2H1367	22H0490-20	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-21	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-22	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-23	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-24	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-25	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-26	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-27	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-28	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-29	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-30	08/09/2022 08:56	CAL
EPA 3005A	B2H1368	22H0490-31	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-32	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-33	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-34	08/09/2022 08:56	CAL
EPA 3005A	B2H1368	22H0490-35	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-36	08/09/2022 08:56	KTH



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

EPA 3005A	B2H1368	22H0490-37	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-38	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-39	08/09/2022 08:56	KTH
EPA 3005A	B2H1368	22H0490-40	08/09/2022 08:56	KTH
EPA 3005A	B2H1406	22H0490-41	08/09/2022 15:21	KTH
EPA 3005A	B2H1706	22H0490-41RE1	08/15/2022 13:49	EDM
EPA 3005A	B2H1406	22H0490-42	08/09/2022 15:21	KTH
EPA 3005A	B2H1406	22H0490-43	08/09/2022 15:21	KTH
EPA 3005A	B2H1406	22H0490-44	08/09/2022 15:21	KTH
EPA 3005A	B2H1406	22H0490-45	08/09/2022 15:21	CAL
EPA 3005A	B2H1406	22H0490-46	08/09/2022 15:21	KTH
EPA 3005A	B2H1406	22H0490-47	08/09/2022 15:21	KTH
EPA 3005A	B2H1406	22H0490-48	08/09/2022 15:21	KTH



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

EPA 3005A ICPMS Digestion

EPA 3005A Mod	B2H1391	22H0490-01	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-01	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-02	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-02	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-03	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-03	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-04	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-04	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-05	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-05	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-06	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-06	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-07	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-07	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-08	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-08	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-09	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-09	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-10	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-10	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-11	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-11	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-12	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-12	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-13	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-13	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1391	22H0490-14	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1391	22H0490-15	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1391	22H0490-16	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1391	22H0490-17	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1391	22H0490-18	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1391	22H0490-19	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1391	22H0490-20	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-21	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-22	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-23	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-24	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-24	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1735	22H0490-24	08/16/2022 14:46	EDM
EPA 3005A Mod	B2H1392	22H0490-25	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-25	08/10/2022 08:49	CAL



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

EPA 3005A Mod	B2H1735	22H0490-25RE1	08/16/2022 14:46	EDM
EPA 3005A Mod	B2H1392	22H0490-26	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-27	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-28	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-29	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-30	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-31	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-32	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-33	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1392	22H0490-34	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-34	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1392	22H0490-35	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-35	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1392	22H0490-36	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-36	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1392	22H0490-37	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-37	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1392	22H0490-38	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1455	22H0490-38	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1392	22H0490-39	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1456	22H0490-39	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1392	22H0490-40	08/09/2022 13:12	CAL
EPA 3005A Mod	B2H1456	22H0490-40	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-41	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-41	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-42	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-42	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-43	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-43	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-44	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-44	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-45	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-45	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-46	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-46	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-47	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-47	08/10/2022 08:49	CAL
EPA 3005A Mod	B2H1404	22H0490-48	08/09/2022 15:21	KTH
EPA 3005A Mod	B2H1456	22H0490-48	08/10/2022 08:49	CAL



Santee Cooper
1 Riverwood Dr.
Moncks Corner, SC 29461

Project: Ground Water
Work Order: 22H0490
Reported: 08/31/22 17:43

Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
S3	Estimated value - the spike result exceeded the calibration range. The spike recovery was not evaluated against the control limits.
S4	The spike was diluted out due to the sample concentration. The spike recovery was not evaluated against the control limits.
S5	The raw sample concentration was greater than four times the spike concentration. The spike recovery was not evaluated against the control limits.
X	Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105
RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

72H0490



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Chain of Custody

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com

125915 / JM02.08.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS - SEE BELOW	DISSOLVED AS
01 AF36903	P02-4	6/28/22	1135	DEW ML	2	P	G	GW	2	PLEASE SEE ATTACHED	X	X
02 905	P02-6		1322							SHEET FOR RLS.	X	X
03 906	P02-7		1441								X	X
04 907	P02-7 DUP		1446								X	X
05 AF36894	CLFIB-1	6/27/22	0926								X	X
06 895	CLFIB-1 DUP		0931								X	X
07 896	CLFIB-2		1055								X	X
08 897	CLFIB-3		1144								X	X
09 898	CLFIB-4		1253								X	X
10 899	CLFIB-5		1348								X	X

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sgmoran	35594	8/14/22	1500	Yvonne Venable		8/15/22	1100
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 24.8 Initial: 8/17
Correct pH: Yes No
Preservative Lot#: _____
Date/Time/Init for preservative: _____

<input type="checkbox"/> METALS (all)		Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input checked="" type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input checked="" type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> %Moisture
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> Carbon	<input type="checkbox"/> Color
<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input checked="" type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dielectric Strength
<input checked="" type="checkbox"/> Be	<input type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	<input type="checkbox"/> IFT
<input checked="" type="checkbox"/> Ca	<input checked="" type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Dissolved Gases
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input checked="" type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> % Moisture	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Flashpoint
<input checked="" type="checkbox"/> Co	<input checked="" type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Sulfites	<input type="checkbox"/> HGI	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> Metals in oil
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Chlorides	<input type="checkbox"/> As	<input type="checkbox"/> TX
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particle Size	<input type="checkbox"/> TSS	<input type="checkbox"/> GOFFER
				<input type="checkbox"/> PCB	<input type="checkbox"/> Sulfur		



Chain of Custody

Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

[@santee.cooper.com](http://santee.cooper.com)

— 1 —

125915 / JM08.G01.1

1 36500

Yes No

Yes **No**

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Sgt Brown</i>	35594	8/1/22	1500	<i>Sgtw Slayh</i>		8/5/22	1400
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 24.8 Initial: WV

Correct pH: Yes No
Preservative Lot#:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6-Other (Specify) Page No. _____

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5141
Fax: (843)761-4171

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia @santeecooper.com

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

	Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS - SEE BELOW	DISPOSABLE	4
-14	AF36886	CCMLF - 1D	6/21/22	1033	DEN ML	1	P	G	GW	2	PLEASE SEE SHEET.	X		
-15	887	CCMLF - 2		1140								X		
-16	877	CCMAP - 1		1310								X		
-17	883	CCMAP - 6		1408								X		
-18	879	CCMAP - 3	6/30/22	0930								X		
-19	878	CCMAP - 2		1033								X		
-20	884	CCMAP - 7		1129								X		
-21	880	CCMAP - 4		1246								X		
-22	881	CCMAP - 4 DUP		1245								X		
-23	882	CCMAP - 5		1406								X		

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
groun	35594	8/12/22	1500	SWIN		9/5/22	1100
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 24.8 Initial: VJZ

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

☐ METALS (all)			Nutrients			MISC.			Gypsum			Coal			Flyash			Oil		
<input type="checkbox"/> Ag	<input checked="" type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> DOC	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> BTEX	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Total metals	<input type="checkbox"/> Ultimate	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Ash	<input type="checkbox"/> Sulfur	<input type="checkbox"/> BTUs	<input type="checkbox"/> Mineral Analysis	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.		
<input checked="" type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> VOC	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> E. Coli	<input type="checkbox"/> TOC	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> % Moisture	<input type="checkbox"/> CHN	<input type="checkbox"/> Sieve	<input type="checkbox"/> % Carbon	<input type="checkbox"/> LOI	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture		
<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> Li	<input type="checkbox"/> Sr	<input checked="" type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> NH3-N	<input type="checkbox"/> F	<input type="checkbox"/> Cl	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> pH	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> Sulfites	<input type="checkbox"/> pH	<input type="checkbox"/> Chlorides	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> HGI	<input type="checkbox"/> Flashpoint	<input type="checkbox"/> Color		
<input checked="" type="checkbox"/> Be	<input type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> Ca	<input checked="" type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Br	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> Rad 226	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Fineness	<input type="checkbox"/> As	<input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg)	<input type="checkbox"/> Acidity		
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input checked="" type="checkbox"/> Zn	<input type="checkbox"/> Co	<input checked="" type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4		<input type="checkbox"/> Dissolved	<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfur				<input type="checkbox"/> TX	<input type="checkbox"/> Dielectric Strength	<input type="checkbox"/> IFT			
<input type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb															<input type="checkbox"/> GOFER	<input type="checkbox"/> Dissolved Gases			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecooper.com

125915 / JM02.09.601.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW	DISSOLVED AS
24 AF36876	CBW-1	6/20/22	1416	DEW ML	1	P	G	GW	2	PLEASE SEE SHEET.	X	X
25 901	PM-1		1	1531	1						X	X
26 888	CGYP-1	6/21/22	1004								X	
27 889	CGYP-2			1109							X	
28 890	CGYP-2 DUP			1114							X	
29 891	CGYP-3			1231							X	
30 892	CGYP-4			1323							X	
31 893	CGYP-6			1423							X	
32 908	POZ-8	6/28/22	1050								X	
33 885	CCMLF-1	6/29/22	0930								X	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sgmuan	35594	8/4/22	1500	WTAW WATKIN		8/5/22	1100
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

 Sample Receiving (Internal Use Only)
 TEMP (°C): 24.8 Initial: W/T

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all)	<input type="checkbox"/> Nutrients	<input type="checkbox"/> MISC.	<input type="checkbox"/> Gypsum	<input type="checkbox"/> Coal	<input type="checkbox"/> Flyash	<input type="checkbox"/> Oil
<input checked="" type="checkbox"/> Ag	<input checked="" type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb				
<input checked="" type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se				
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn				
<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> Li	<input type="checkbox"/> Sr				
<input checked="" type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti				
<input checked="" type="checkbox"/> Be	<input type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl				
<input checked="" type="checkbox"/> Ca	<input checked="" type="checkbox"/> Mo	<input type="checkbox"/> V				
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input checked="" type="checkbox"/> Zn				
<input checked="" type="checkbox"/> Co	<input checked="" type="checkbox"/> Ni	<input type="checkbox"/> Hg				
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI				
			<input type="checkbox"/> Wallboard <input type="checkbox"/> Gypsum(all below) <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur	<input type="checkbox"/> Ultimate <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> Other Tests: <input type="checkbox"/> XRF Scan <input type="checkbox"/> HGI <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral <input type="checkbox"/> Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <input type="checkbox"/> NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<input type="checkbox"/> Trans. Oil Qual. <input type="checkbox"/> %Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg) <input type="checkbox"/> TX <input type="checkbox"/> GOFER

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com

125915 / JMO2.08.G01.9 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass or Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW	DISSOLVED AS
34 AF36873	CAP-12	6/21/22	1518	DEN ML	2	G	G	GW	2	PLEASE SEE SHEET.	X	X
35 875	CAP-14	6/22/22	0939								X	X
36 872	CAP-11		1357								X	X
37 862	CAP-2		1202								X	X
38 874	CAP-15		1027								X	X
39 861	CAP-1		1253								X	X
40 871	CAP-10		1445								X	X
41 869	CAP-9		1540								X	X
42 870	CAP-9 DUP		1545								X	X

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Sjbrown	36594	8/14/22	1500	Wm. Wink		8/15/22	1100
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
 TEMP (°C): 24.8 Initial: 8/15
 Correct pH: Yes No
 Preservative Lot#:
 Date/Time/init for preservative:

METALS (all)		Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input checked="" type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Trans. Oil Qual.
<input checked="" type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Ammonia	<input type="checkbox"/> %Moisture
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> % Ash	<input type="checkbox"/> LOI	<input type="checkbox"/> Color
<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Acidity
<input checked="" type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTUs	<input type="checkbox"/> Mineral	<input type="checkbox"/> Dielectric Strength
<input checked="" type="checkbox"/> Be	<input type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Analysis	<input type="checkbox"/> IFT
<input checked="" type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> CHN	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dissolved Gases
<input checked="" type="checkbox"/> Cd	<input type="checkbox"/> Na	<input checked="" type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Used Oil
<input checked="" type="checkbox"/> Co	<input checked="" type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> HGI	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Flashpoint
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> Fineness	<input type="checkbox"/> As	<input type="checkbox"/> Metals in oil
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Chlorides	<input type="checkbox"/> TSS	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb,Hg)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particle Size	<input type="checkbox"/> TX	<input type="checkbox"/> GOFER
				<input type="checkbox"/> PCB	<input type="checkbox"/> Sulfur		

Chain of Custody

 santee cooper

Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecoopera.com

1 / 1

125915 / JM02.08.G01.3 / 36500

Yes **No**

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>sgbrown</i>	35594	8/13/22	1500	<i>Wm. Singh</i>		8/15/22	1100
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium 6010	ug/L	40	5
Magnesium	ug/L	---	---
Mercury 7470	ug/L	2	0.2
Molybdenum 6010	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

METHOD 6020 UNLESS OTHERWISE NOTED.

NOT NEEDED



Sample Receipt Verification

Client: Santee CooperDate Received: 8/5/22Work Order: 22H0490Carrier Name: Client

Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC included with samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Damaged <input type="checkbox"/> Leaking <input type="checkbox"/> Other: _____
Sample ID on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date / time on COC agree with label on bottle(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Number of bottles on COC agrees with number of bottles received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample volume sufficient for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOA vials free of headspace (<6mm bubble)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Samples cooled? Temp at receipt recorded on COC Temp measured with IR thermometer - SN: 97050067	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ice <input checked="" type="checkbox"/> Cold Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/>
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If in-house preservation used – record Lot #

HCL		H ₃ PO ₄	
H ₂ SO ₄		NaOH	
HNO ₃		Other	

Comments:

Were non-conformance issues noted at sample receipt? <u>No</u>
Non-Conformance issue other than noted above:



June 29, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 584114

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 24, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 584114 GEL Work Order: 584114

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36876 Project: SOOP00119
Sample ID: 584114001 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 20-JUN-22 14:16
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1029	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36901 Project: SOOP00119
Sample ID: 584114002 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 20-JUN-22 15:31
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1031	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36888 Project: SOOP00119
Sample ID: 584114003 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 21-JUN-22 10:04
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1032	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36889	Project:	SOOP00119
Sample ID:	584114004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 11:09		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1034	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36890 Project: SOOP00119
Sample ID: 584114005 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 21-JUN-22 11:14
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1036	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36891	Project:	SOOP00119
Sample ID:	584114006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 12:31		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												

Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1041	2282950	1
---------	---	----	--------	-------	------	------	---	-----	----------	------	---------	---

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	06/28/22	1344	2282947

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 7470A		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36892	Project:	SOOP00119
Sample ID:	584114007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 13:23		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												

Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1043	2282950	1
---------	---	----	--------	-------	------	------	---	-----	----------	------	---------	---

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	06/28/22	1344	2282947

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 7470A		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36893 Project: SOOP00119
Sample ID: 584114008 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 21-JUN-22 14:23
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1045	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36874	Project:	SOOP00119
Sample ID:	584114009	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 10:27		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1046	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36861 Project: SOOP00119
Sample ID: 584114010 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 22-JUN-22 12:53
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1048	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36871 Project: SOOP00119
Sample ID: 584114011 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 22-JUN-22 14:45
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1050	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36869 Project: SOOP00119
Sample ID: 584114012 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 22-JUN-22 15:40
Receive Date: 24-JUN-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1051	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: June 29, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36870	Project:	SOOP00119
Sample ID:	584114013	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 15:45		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	06/29/22	1053	2282950	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	06/28/22	1344	2282947											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 29, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Monecks Corner, South Carolina
Ms. Jeannette Gilmetti

Contact: Ms. Jeanette Gilmetti
Worker order: 584114

Workorder: 584114

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2282950										
QC1205126641	LCS										
Mercury		2.00			2.01	ug/L		101 (80%-120%)	JP2	06/29/22	10:05
QC1205126640	MB										
Mercury				U	ND	ug/L				06/29/22	10:03
QC1205126642	582287002	MS									
Mercury		2.00	U		ND	ug/L	80.3	(75%-125%)		06/29/22	10:08
QC1205126643	582287002	MSD									
Mercury		2.00	U		ND	ug/L	2.04	81.9 (0%-20%)		06/29/22	10:10
QC1205126644	582287002	SDILT									
Mercury			U		ND	ug/L	N/A	(0%-10%)		06/29/22	10:12

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
 - > Result is greater than value reported
 - E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
 - FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
 - H Analytical holding time was exceeded
 - J See case narrative for an explanation
 - J Value is estimated
 - N Metals--The Matrix spike sample recovery is not within specified control limits
 - N/A RPD or %Recovery limits do not apply.
 - N1 See case narrative
 - ND Analyte concentration is not detected above the detection limit
 - NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
 - Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

GEL LABORATORIES LLC
 2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **584114**

Page **2 of 2**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Santee Cooper
SDG #: 584114

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2282950

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2282947

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584114001	AF36876
584114002	AF36901
584114003	AF36888
584114004	AF36889
584114005	AF36890
584114006	AF36891
584114007	AF36892
584114008	AF36893
584114009	AF36874
584114010	AF36861
584114011	AF36871
584114012	AF36869
584114013	AF36870
1205126640	Method Blank (MB)CVAA
1205126641	Laboratory Control Sample (LCS)
1205126644	582287002(NonSDGL) Serial Dilution (SD)
1205126642	582287002(NonSDGS) Matrix Spike (MS)
1205126643	582287002(NonSDG SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 DAYS

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 7 / 5 / 22

Send report to lcwillia@santeecoop.com & sibrown@santeecoop.com

584117/4114

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia

@santeecoop.com

/ /

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226/228	TOTAL RAD CALC
AF36876	CBW-1	6/20/22	1416	DEN/ML	3	P	G	GW	2	Hg 7470 RL < 0.200 µg/L	2	X 1
AF36901	PM-1	1	1531	1	1						2	X 1
AF36888	CGYP-1	6/21/22	1004	1								
89	CGYP-2		1109									
90	CGYP-2 DUP		1114									
91	CGYP-3		1231									
92	CGYP-4		1323									
93	CGYP-6	1	1423	1	1						1	1

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sgmoun	255914	6/24/22	0826	SGM	GEL	6/24/22	0925
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sgmoun	255914	6/24/22	1515	SGM	GEL	6/24/22	1515
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all.)		Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Napthalene	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> colorants
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TP04	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dissolved Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Flashpoint	<input type="checkbox"/> Metals in oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> HGI	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> GCT, Ni, Pb
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> Fineness	<input type="checkbox"/> As	<input type="checkbox"/> Hg
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> TSS	<input type="checkbox"/> I.M.
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfur		<input type="checkbox"/> COPPER
				<input type="checkbox"/> PCB			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/CO/COC/Work Order: 584105/4103/4102/4117/			4114/
Received By: MVH	Date Received: 06/24/2022			400
Circle Applicable: FedEx Express FedEx Ground UPS Field Services <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Other KW 6-27-2022				
Carrier and Tracking Number				
Suspected Hazard Information <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.				
A) Shipped as a DOT Hazardous? <input checked="" type="checkbox"/> Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
B) Did the client designate the samples are to be received as radioactive? <input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.				
C) Did the RSO classify the samples as radioactive? <input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 5 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3				
D) Did the client designate samples are hazardous? <input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.				
E) Did the RSO identify possible hazards? <input checked="" type="checkbox"/> If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:				
Sample Receipt Criteria <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA <input type="checkbox"/> No Comments/Qualifiers (Required for Non-Conforming Items)				
1	Shipping containers received intact and sealed?			
2	Chain of custody documents included with shipment?			
3	Samples requiring cold preservation within ($0 \leq 6$ deg. C)?*			
4	Daily check performed and passed on IR temperature gun?			
5	Sample containers intact and sealed?			
6	Samples requiring chemical preservation at proper pH?			
7	Do any samples require Volatile Analysis?			
8	Samples received within holding time?			
9	Sample ID's on COC match ID's on bottles?			
10	Date & time on COC match date & time on bottles?			
11	Number of containers received match number indicated on COC?			
12	Are sample containers identifiable as GEL provided by use of GEL labels?			
13	COC form is properly signed in relinquished/received sections?			
Comments (Use Continuation Form if needed):				

PM (or PMA) review: Initials **PM** Date **01/27/22** Page **1** of **1**

List of current GEL Certifications as of 29 June 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



July 25, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 584117

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 24, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 584117 GEL Work Order: 584117

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

Julie Robinson

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36876	Project:	SOOP00119
Sample ID:	584117001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	20-JUN-22 14:16		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.588	+/-0.926	1.61	3.00	pCi/L		JXC9	07/07/22	0845	2282277	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.29	+/-0.972			pCi/L		NXL1	07/14/22	0846	2282276	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.702	+/-0.297	0.269	1.00	pCi/L		LXP1	07/12/22	0821	2282268	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36901	Project:	SOOP00119
Sample ID:	584117002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	20-JUN-22 15:31		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.17	+/-0.923	1.45	3.00	pCi/L		JXC9	07/07/22	0845	2282277	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.07	+/-0.996			pCi/L		NXL1	07/14/22	0846	2282276	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.900	+/-0.374	0.431	1.00	pCi/L		LXP1	07/12/22	0821	2282268	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36888	Project:	SOOP00119
Sample ID:	584117003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 10:04		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.85	+/-1.22	1.88	3.00	pCi/L		JXC9	07/07/22	0845	2282277	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.26	+/-1.30			pCi/L		NXL1	07/14/22	0846	2282276	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.40	+/-0.453	0.418	1.00	pCi/L		LXP1	07/12/22	0821	2282268	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36889	Project:	SOOP00119
Sample ID:	584117004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 11:09		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.72	+/-1.05	1.56	3.00	pCi/L		JXC9	07/07/22	0845	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.62	+/-1.11			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.891	+/-0.350	0.400	1.00	pCi/L		LXP1	07/12/22	0821	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36890	Project:	SOOP00119
Sample ID:	584117005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 11:14		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.646	+/-1.08	1.87	3.00	pCi/L			JXC9	07/07/22	0845	2282277	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.23	+/-1.13			pCi/L			NXL1	07/14/22	0846	2282276	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.581	+/-0.358	0.494	1.00	pCi/L			LXP1	07/12/22	0852	2282268	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36891	Project:	SOOP00119
Sample ID:	584117006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 12:31		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		5.24	+/-1.48	1.80	3.00	pCi/L		JXC9	07/12/22	0912	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.34	+/-1.53			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.10	+/-0.391	0.310	1.00	pCi/L		LXP1	07/12/22	0852	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36892	Project:	SOOP00119
Sample ID:	584117007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 13:23		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.77	+/-1.42	1.97	3.00	pCi/L		JXC9	07/07/22	0846	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.19	+/-1.44			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.415	+/-0.258	0.352	1.00	pCi/L		LXP1	07/12/22	0852	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36893	Project:	SOOP00119
Sample ID:	584117008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-JUN-22 14:23		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.76	+/-1.32	1.72	3.00	pCi/L		JXC9	07/07/22	0846	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.80	+/-1.40			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.04	+/-0.491	0.314	1.00	pCi/L		LXP1	07/12/22	0852	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36874	Project:	SOOP00119
Sample ID:	584117009	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 10:27		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.55	+/-1.31	2.13	3.00	pCi/L		JXC9	07/07/22	0846	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.79	+/-1.33			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.236	+/-0.231	0.363	1.00	pCi/L		LXP1	07/12/22	0852	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36861	Project:	SOOP00119
Sample ID:	584117010	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 12:53		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.947	+/-0.985	1.64	3.00	pCi/L		JXC9	07/07/22	0847	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.12	+/-1.06			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.18	+/-0.394	0.250	1.00	pCi/L		LXP1	07/12/22	0925	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36871	Project:	SOOP00119
Sample ID:	584117011	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 14:45		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.30	+/-1.12	1.81	3.00	pCi/L		JXC9	07/07/22	0847	2282277		1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.24	+/-1.18			pCi/L		NXL1	07/14/22	0846	2282276		2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.936	+/-0.387	0.345	1.00	pCi/L		LXP1	07/12/22	0925	2282268		3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36869	Project:	SOOP00119
Sample ID:	584117012	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 15:40		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.45	+/-0.946	1.14	3.00	pCi/L		JXC9	07/07/22	0847	2282277	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.99	+/-0.987			pCi/L		NXL1	07/14/22	0846	2282276	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.538	+/-0.279	0.331	1.00	pCi/L		LXP1	07/12/22	0925	2282268	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36870	Project:	SOOP00119
Sample ID:	584117013	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	22-JUN-22 15:45		
Receive Date:	24-JUN-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.25	+/-1.46	1.86	3.00	pCi/L		JXC9	07/07/22	0943	2282277	1	
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.38	+/-1.48			pCi/L		NXL1	07/14/22	0846	2282276	2	
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.124	+/-0.242	0.445	1.00	pCi/L		LXP1	07/12/22	0925	2282268	3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 25, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 584117

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2282277										
Radium-228	QC1205124936	584117001	DUP								
				U	0.588	2.63	pCi/L	127*	(0% - 100%)	JXC9	07/07/22 08:44
				Uncertainty	+/-0.926	+/-1.11					
Radium-228	QC1205124937	LCS									
				45.3		37.8	pCi/L	83.3	(75%-125%)		07/07/22 08:45
				Uncertainty		+/-3.15					
Radium-228	QC1205124935	MB									
				U	0.990	pCi/L					07/07/22 08:44
				Uncertainty	+/-0.924						
Rad Ra-226											
Batch	2282268										
Radium-226	QC1205124915	584117001	DUP								
				U	0.702	0.234	pCi/L	100	(0% - 100%)	LXP1	07/12/22 09:25
				Uncertainty	+/-0.297	+/-0.184					
Radium-226	QC1205124917	LCS									
				26.5		21.9	pCi/L	82.4	(75%-125%)		07/12/22 09:58
				Uncertainty		+/-1.66					
Radium-226	QC1205124914	MB									
				U	0.190	pCi/L					07/12/22 09:25
				Uncertainty	+/-0.263						
Radium-226	QC1205124916	MS									
				131	0.702	100	pCi/L	76.2	(75%-125%)		07/12/22 09:58
				Uncertainty	+/-0.297	+/-7.68					

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

QC Summary

Workorder: 584117

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 584117

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2282277

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584117001	AF36876
584117002	AF36901
584117003	AF36888
584117004	AF36889
584117005	AF36890
584117006	AF36891
584117007	AF36892
584117008	AF36893
584117009	AF36874
584117010	AF36861
584117011	AF36871
584117012	AF36869
584117013	AF36870
1205124935	Method Blank (MB)
1205124936	584117001(AF36876) Sample Duplicate (DUP)
1205124937	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample

The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205124936 (AF36876DUP)	Radium-228	RPD 127* (0.0%-100.0%) RER 2.5 (0-3)

Technical Information

Recounts

Sample 584117006 (AF36891) was re-eluted and recounted to verify sample result. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2282268

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584117001	AF36876
584117002	AF36901
584117003	AF36888
584117004	AF36889
584117005	AF36890
584117006	AF36891
584117007	AF36892
584117008	AF36893
584117009	AF36874
584117010	AF36861
584117011	AF36871
584117012	AF36869
584117013	AF36870
1205124914	Method Blank (MB)
1205124915	584117001(AF36876) Sample Duplicate (DUP)
1205124916	584117001(AF36876) Matrix Spike (MS)
1205124917	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205124916 (AF36876MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 DAYS

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 7 / 5 / 22

Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

584117/4114

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia @santeecooper.com

_____ / _____ / _____

125915 / JM02.07.601.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	RAD 226/228	TOTAL RAD GRU	Hg	
AF36876	CBW-1	6/20/22	1416	DEW /ML	3	P	G	GW	2	Hg 7470 RL < 0.200 µg/L	2	X	1	
AF36901	PM-1	1	1531	1	1							2	X	1
AF36888	CGYP-1	6/21/22	1004											
89	CGYP-2		1109											
90	CGYP-2 DUP		1114											
91	CGYP-3		1231											
92	CGYP-4		1323											
93	CGYP-6	1	1423	1	1									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sjbrown	35594	6/24/22	0724	SD	GEL	6/24/22	0937
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SD	101	6/24/22	1515	SD	GEL	6/24/22	1515
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	Trans. Oil Ouel.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	Gypsum (all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/PO4	<input type="checkbox"/> THM/HAA	AJM	<input type="checkbox"/> Ash	<input type="checkbox"/> 1% Carbon	Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> P	<input type="checkbox"/> Oil & Grease	Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	Dissolved Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> C	<input type="checkbox"/> E. Coli	Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	III
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> pH	Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	Dissolved Concent.
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> Dissolved As	% Moisture	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Used Oil	Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved Fe	Sulfites	<input type="checkbox"/> HGI	<input type="checkbox"/> Flashpoint	
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 226	pH	<input type="checkbox"/> Fineness	<input type="checkbox"/> Metals in oil	
				<input type="checkbox"/> Rad 228	Chlorides	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> As	
				<input type="checkbox"/> PCB	Particle Size		<input type="checkbox"/> TSS	
					Sulfur			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O3 6-Other (Specify)

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecoopera.com

1 / 1

125915 / JM02.08.G01.3 / 36500

Yes No

Analysis Group

Relinquished by:	Employee#:	Date	Time	Received by:	Employee #	Date	Time
<i>JM</i>	35594	6/24/22	0921	<i>JL</i>	GEL	6/24/22	0921
Relinquished by:	Employee#:	Date	Time	Received by:	Employee #	Date	Time
<i>JL</i>	661	6/24/22	1515	<i>MCHW</i>	GEL	6/24/22	1515
Relinquished by:	Employee#:	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
 TEMP (°C): _____ Initial: _____
 Correct pH: Yes No
 Preservative Lot#: _____
 Date/Time/Init for preservative: _____

☐ METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
☐ Ag	☐ Cu	☐ Sb		☐ BTEX ☐ DOC ☐ THM/HAA ☐ VOC ☐ Oil & Grease ☐ E. Coli ☐ Total Coliform ☐ pH ☐ Dissolved As ☐ Dissolved Fe ☐ Rad 226 ☐ Rad 228 ☐ PCB	Wallboard Gypsum (all below) AIM TOC Total metals Soluble Metals Purity (CaSO_4) % Moisture Sulfides pH Chlorides Particle Size Sulfur	☐ Ultimate ☐ % Moisture ☐ Ash ☐ Sulfur ☐ BTUs ☐ Volatile Matter ☐ CHN Other Tests: XRF Scan HGI Fineness Particulate Matter	☐ Ammonia ☐ LOI ☐ % Carbon ☐ Mineral Analysis ☐ Sieve ☐ % Moisture NPDES Oil & Grease As TSS	Trans. Off Odor Moisture Color Acidity Dielectric Strength IFT Dissolved Gases Used Oil Flammability Metals in oil (As, Cd, Cr, Ni, Pb, Hg)
☐ Al	☐ Fe	☐ Se						
☐ As	☐ K	☐ Sn						
☐ B	☐ Li	☐ Sr						
☐ Ba	☐ Mg	☐ Ti						
☐ Be	☐ Mn	☐ Tl						
☐ Ca	☐ Mo	☐ V						
☐ Cd	☐ Na	☐ Zn						
☐ Co	☐ Ni	☐ Hg						
☐ Cr	☐ Pb	☐ CrVI						

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂SiO₃ 6=Other (Specify)



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SDG	SDG/AR/COC/Work Order: 584105/4103/4102/4117/			J	4114/
Received By: MVH	Date Received: 06/24/2020			Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other \$100 KW 0-27/4 4100	
Carrier and Tracking Number					
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>		Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes _____ No _____		
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>		COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 5 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>		COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>		If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)	
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)		
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>		Circle Applicable: Client contacted and provided COC COC created upon receipt		
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3		
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>		Temperature Device Serial #: JR2-21 Secondary Temperature Device Serial # (If Applicable):		
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)		
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>		Sample ID's and Containers Affected: SDG If Preservation added, Lot#: 220404-BP		
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>		If Yes, are Encores or Soil Kits present for solids? Yes _____ No _____ NA _____ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes _____ No _____ NA _____ (If unknown, select No) Are liquid VOA vials free of headspace? Yes _____ No _____ NA _____ Sample ID's and containers affected:		
8 Samples received within holding time?	<input checked="" type="checkbox"/>		ID's and tests affected:		
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>		ID's and containers affected:		
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)		
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>		Circle Applicable: No container count on COC Other (describe)		
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>				
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>		Circle Applicable: Not relinquished Other (describe)		
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials **KW** Date **01/27/22** Page **1** of **1**

List of current GEL Certifications as of 25 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



July 11, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 584794

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 584794 GEL Work Order: 584794

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

Julie Robinson

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 11, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID:	AF36885	Project:	SOOP00119
Sample ID:	584794001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 09:30		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"	J	0.441	0.330	1.00	mg/L	1	TSM	07/02/22	2307	2284974	1							
Total Organic Carbon Average																		
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1455	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 11, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID:	AF36886	Project:	SOOP00119
Sample ID:	584794002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 10:33		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"	J	0.643	0.330	1.00	mg/L	1	TSM	07/03/22	0006	2284974	1	Total Organic Carbon Average						
Mercury Analysis-CVAA	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1457	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Report Date: July 11, 2022

Company : Santee Cooper
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 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36887	Project:	SOOP00119
Sample ID:	584794003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 11:40		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.626	0.330	1.00	mg/L		1	TSM	07/03/22	0025	2284974	1
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1515	2287509	2
The following Prep Methods were performed:												
Method	Description			Analyst	Date	Time	Prep Batch					
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507					
The following Analytical Methods were performed:												
Method	Description						Analyst Comments					
1	SM 5310 B											
2	SW846 7470A											

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36877	Project:	SOOP00119
Sample ID:	584794004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 13:10		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1517	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36883 Project: SOOP00119
Sample ID: 584794005 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 29-JUN-22 14:08
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1519	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36904	Project:	SOOP00119
Sample ID:	584794006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 10:03		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.32	0.330	1.00	mg/L		1	TSM	07/03/22	0105	2284974	1
The following Analytical Methods were performed:												

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36908	Project:	SOOP00119
Sample ID:	584794007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 10:50		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1520	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36903	Project:	SOOP00119
Sample ID:	584794008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 11:35		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average 2.07												
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury U ND												
0.0670 0.200 ug/L 1.00 1 JP2 07/11/22 1526 2287509 2												
The following Prep Methods were performed:												
Method	Description			Analyst	Date	Time	Prep Batch					
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507					
The following Analytical Methods were performed:												
Method	Description						Analyst Comments					
1	SM 5310 B											
2	SW846 7470A											

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID:	AF36905	Project:	SOOP00119
Sample ID:	584794009	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 13:22		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"																		
Total Organic Carbon Average																		
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury																		
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID:	AF36906	Project:	SOOP00119
Sample ID:	584794010	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 14:41		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"																		
Total Organic Carbon Average	J	0.468	0.330	1.00	mg/L	1	TSM	07/03/22	0144	2284974	1							
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1529	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Project: Ms. Jeanette Gilmetti
 ABS Lab Analytical

Client Sample ID:	AF36907	Project:	SOOP00119
Sample ID:	584794011	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 14:46		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.521	0.330	1.00	mg/L		1	TSM	07/03/22	0203	2284974	1
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1531	2287509	2
The following Prep Methods were performed:												
Method	Description			Analyst	Date	Time	Prep	Batch				
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233		2287507				
The following Analytical Methods were performed:												
Method	Description						Analyst Comments					
1	SM 5310 B											
2	SW846 7470A											

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36879 Project: SOOP00119
Sample ID: 584794012 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 09:30
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1533	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36878 Project: SOOP00119
Sample ID: 584794013 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 10:33
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1534	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

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SQL: Sample Quantitation Limit

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Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36884 Project: SOOP00119
Sample ID: 584794014 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 11:29
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1536	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36880 Project: SOOP00119
Sample ID: 584794015 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 12:40
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1538	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

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SQL: Sample Quantitation Limit

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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36881 Project: SOOP00119
Sample ID: 584794016 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 12:45
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1539	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

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SQL: Sample Quantitation Limit

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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36882 Project: SOOP00119
Sample ID: 584794017 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 14:06
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1545	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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QC Summary

Report Date: July 11, 2022

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Santee Cooper
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Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 584794

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time	
Carbon Analysis												
Batch	2284169											
QC1205130775	584794008	DUP										
Total Organic Carbon Average			2.07		2.18	mg/L	5.17 ^	(+-1.00)	TSM	07/04/22	17:47	
QC1205129026	LCS											
Total Organic Carbon Average		10.0			9.84	mg/L	98.4	(80%-120%)		07/04/22	12:23	
QC1205129025	MB											
Total Organic Carbon Average				U	ND	mg/L				07/04/22	12:13	
QC1205130776	584794008	PS										
Total Organic Carbon Average		10.0		2.07	11.7	mg/L	96.1	(65%-120%)		07/04/22	18:07	
Batch	2284974											
QC1205130451	584794001	DUP										
Total Organic Carbon Average			J	0.441	J	0.444	mg/L	0.678 ^	(+-1.00)	TSM	07/02/22	23:27
QC1205130450	LCS											
Total Organic Carbon Average		10.0			9.96	mg/L	99.6	(80%-120%)		07/02/22	22:57	
QC1205130449	MB											
Total Organic Carbon Average				U	ND	mg/L				07/02/22	22:47	
QC1205130452	584794001	PS										
Total Organic Carbon Average		10.0	J	0.441	10.1	mg/L	96.1	(65%-120%)		07/02/22	23:46	
Metals Analysis-Mercury												
Batch	2287509											
QC1205135292	584794002	DUP										
Mercury			U	ND	U	ND	ug/L	N/A		JP2	07/11/22	14:59

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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **584794**

Page **2 of 3**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2287509										
QC1205135289	LCS										
Mercury		2.00		2.09	ug/L		104	(80%-120%)	JP2	07/11/22	14:46
QC1205135290	LCSD			2.08	ug/L	0.384	104	(0%-20%)		07/11/22	14:48
QC1205135288	MB			U	ND	ug/L				07/11/22	14:41
Mercury											
QC1205135293	584794002	MS		2.10	ug/L		105	(75%-125%)		07/11/22	15:01
Mercury		2.00	U	ND							
QC1205135294	584794002	SDILT		U	ND	U	ND	ug/L	N/A	(0%-10%)	07/11/22 15:12
Mercury											

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

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QC Summary

Workorder: **584794**

Page **3 of 3**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILIT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Santee Cooper
SDG #: 584794

Metals

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2287509

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2287507

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584794001	AF36885
584794002	AF36886
584794003	AF36887
584794004	AF36877
584794005	AF36883
584794007	AF36908
584794008	AF36903
584794009	AF36905
584794010	AF36906
584794011	AF36907
584794012	AF36879
584794013	AF36878
584794014	AF36884
584794015	AF36880
584794016	AF36881
584794017	AF36882
1205135288	Method Blank (MB)CVAA
1205135289	Laboratory Control Sample (LCS)
1205135290	Laboratory Control Sample Duplicate (LCSD)
1205135294	584794002(AF36886L) Serial Dilution (SD)
1205135292	584794002(AF36886D) Sample Duplicate (DUP)
1205135293	584794002(AF36886S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2284169

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#

Client Sample Identification

584794008	AF36903
1205129025	Method Blank (MB)
1205129026	Laboratory Control Sample (LCS)
1205130775	584794008(AF36903) Sample Duplicate (DUP)
1205130776	584794008(AF36903) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2284974

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#

Client Sample Identification

584794001	AF36885
584794002	AF36886
584794003	AF36887
584794006	AF36904
584794009	AF36905
584794010	AF36906
584794011	AF36907
1205130449	Method Blank (MB)
1205130450	Laboratory Control Sample (LCS)
1205130451	584794001(AF36885) Sample Duplicate (DUP)
1205130452	584794001(AF36885) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody



Santee Coop
One Riverwood Driv
Moncks Corner, SC 2946
Phone: (843)761-8000 Ext. 514
Fax: (843)761-417

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LAWILLIA

@santeecooper.com

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P) Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD/ 226 + 228	TOTAL RAD CALL	Hg	TBC	
AF36885	CCMLF-1	6/29/22	0930	DEW ML	4	P/G	G	GW	2/3/1	Hg 7470 RL < 0.200 PPB	2	X	1	1
86	CCMLF-1D		1033		4	P/G								
87	CCMLF-2		1140		4	P/G								
77	CCMAP-1		1310		3	P			2					
83	CCMAP-6		1408		3	P								
AF36904	POZ-5D	6/28/22	1003		1	G	G	GW	3/1					
AF36908	POZ-8	6/28/22	1050		X3	P			2					

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SIBROWN	355-14	7/1/22	0934	JP	GEL	7/1/22	0934
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
JP	GEL	7/1/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> %Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> IFT	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> Sieve	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Sulfites	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> %Moisture
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> HGI	<input type="checkbox"/> As	<input type="checkbox"/> %Color
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Clides	<input type="checkbox"/> Fineness	<input type="checkbox"/> TSS	<input type="checkbox"/> TX
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Particulate Matter		<input type="checkbox"/> GOFER
				<input type="checkbox"/> PCB	<input type="checkbox"/> Sulfur			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid,

S-coal, G-graupum, F-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecooper.com

125915 JM02.08.G01.1 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	RAD 224/228	TOTAL RAD CALC.	Hg	TOC
AF36903	Poz-4	6/28/22	1135	DEW ML	4	P+ G	G	GW	2/31	Hg 7470 RL <0.200 PPB	2	X	1	1
05	Poz-6		1322		1									
06	Poz-7		1441		1									
07	Poz-7 DUP		1446	-	1									
AF36879	CCMAP-3	6/30/22	0930		3	P	G	GW	2		2	X	1	
78	CCMAP-2		1033		1									
84	CCMAP-7		1129		1									
80	CCMAP-4		1240		1									
81	CCMAP-4 DUP		1245		1									
82	CCMAP-5		1406	-	1									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
John Brown	35594	7/1/22	0934	JM	GEL	7/1/22	0934
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
John	Gel	7/1/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Napthalene	<input type="checkbox"/> Gypsum (all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> %Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> IFT	<input type="checkbox"/> IFT
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> Steve	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Sulfites	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Flashpoint	<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> Fineness	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> Metals in oil
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Chlorides	<input type="checkbox"/> Particle Matter	<input type="checkbox"/> As	<input type="checkbox"/> (As, Cd, Cr, Ni, Pb)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Hg	<input type="checkbox"/> Hg
				<input type="checkbox"/> PCB			<input type="checkbox"/> TSS	<input type="checkbox"/> TX
								<input type="checkbox"/> GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid,

Preservative code: 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)



Laboratories LLC

KW 7-5-22

JR

SAMPLE RECEIPT & REVIEW FORM

Client: <i>Soop</i>		SDG/AR/COC/Work Order: <i>584785</i>	<i>584794 / 584785</i>						
Received By: MVH		Date Received: <i>07/01/2022</i>	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other						
Carrier and Tracking Number									
Suspected Hazard Information		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.					
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/> Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input type="checkbox"/>							
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.							
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <i>0</i> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3							
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.							
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/> If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:							
Sample Receipt Criteria		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Comments/Qualifiers (Required for Non-Conforming Items)					
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)							
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/> Circle Applicable: Client contacted and provided COC COC created upon receipt							
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/> Preservation Method: <i>Wet Ice</i> <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry ice <input type="checkbox"/> None <input type="checkbox"/> Other: *all temperatures are recorded in Celsius TEMP: <i>4</i>							
4 Daily check performed and passed on IR temperature gun?		<input checked="" type="checkbox"/> Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):							
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)							
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/> Sample ID's and Containers Affected: If Preservation added, Lot# <i>XCLMF-2 had a high pH level</i>							
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/> If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) <input checked="" type="checkbox"/> Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) <input checked="" type="checkbox"/> Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected:							
8 Samples received within holding time?		<input checked="" type="checkbox"/> ID's and tests affected:							
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/> ID's and containers affected:							
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/> Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)							
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/> Circle Applicable: No container count on COC Other (describe)							
12 Are sample containers identifiable as GEL provided by use of GEL labels?		<input checked="" type="checkbox"/>							
13 COC form is properly signed in relinquished/received sections?		<input checked="" type="checkbox"/> Circle Applicable: Not relinquished Other (describe)							
Comments (Use Continuation Form if needed):									

PM (or PMA) review: Initials *KW* Date *7/5/22* Page *1* of *1*

List of current GEL Certifications as of 11 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



July 21, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 584794

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 2022. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

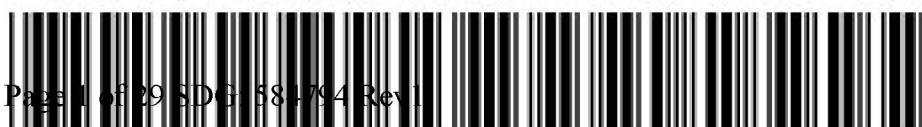
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 584794 GEL Work Order: 584794

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 21, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Contact: Moncks Corner, South Carolina 29461
 Project: Ms. Jeanette Gilmetti
 ABS Lab Analytical

Client Sample ID:	AF36885	Project:	SOOP00119
Sample ID:	584794001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 09:30		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"	J	0.441	0.330	1.00	mg/L		1	TSM	07/02/22	2307	2284974	1						
Total Organic Carbon Average																		
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1455	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 21, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID:	AF36886	Project:	SOOP00119
Sample ID:	584794002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 10:33		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"	J	0.643	0.330	1.00	mg/L	1	TSM	07/03/22	0006	2284974	1	Total Organic Carbon Average						
Mercury Analysis-CVAA	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1457	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Contact: Moncks Corner, South Carolina 29461
 Project: Ms. Jeanette Gilmetti
 ABS Lab Analytical

Client Sample ID:	AF36887	Project:	SOOP00119
Sample ID:	584794003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 11:40		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.626	0.330	1.00	mg/L		1	TSM	07/03/22	0025	2284974	1
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1515	2287509	2
The following Prep Methods were performed:												
Method	Description			Analyst	Date	Time	Prep	Batch				
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233		2287507				
The following Analytical Methods were performed:												
Method	Description						Analyst Comments					
1	SM 5310 B											
2	SW846 7470A											

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
Address : P.O. Box 2946101
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36877 Project: SOOP00119
Sample ID: 584794004 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 29-JUN-22 13:10
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1517	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36883	Project:	SOOP00119
Sample ID:	584794005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 14:08		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1519	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF36904 Project: SOOP00119
Sample ID: 584794006 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 28-JUN-22 10:03
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average 2.32												
mg/L 1 TSM 07/03/22 0105 2284974 1												
The following Analytical Methods were performed:												

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
Address : P.O. Box 2946101
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36908 Project: SOOP00119
Sample ID: 584794007 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 28-JUN-22 10:50
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1520	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Contact: Moncks Corner, South Carolina 29461
 Project: Ms. Jeanette Gilmetti
 ABS Lab Analytical

Client Sample ID:	AF36903	Project:	SOOP00119
Sample ID:	584794008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 11:35		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average 2.07												
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury U ND												
0.0670 0.200 ug/L 1.00 1 JP2 07/11/22 1526 2287509 2												
The following Prep Methods were performed:												
Method	Description			Analyst	Date	Time	Prep Batch					
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507					
The following Analytical Methods were performed:												
Method	Description						Analyst Comments					
1	SM 5310 B											
2	SW846 7470A											

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF36905 Project: SOOP00119
Sample ID: 584794009 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 28-JUN-22 13:22
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"																		
Total Organic Carbon Average 2.53																		
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/11/22 1527 2287509 2																		
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF36906 Project: SOOP00119
Sample ID: 584794010 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 28-JUN-22 14:41
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"																		
Total Organic Carbon Average	J	0.468	0.330	1.00	mg/L	1	TSM	07/03/22	0144	2284974	1							
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1529	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Report Date: July 21, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID:	AF36907	Project:	SOOP00119
Sample ID:	584794011	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 14:46		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Carbon Analysis																		
SM 5310 B Total Organic Carbon "As Received"	J	0.521	0.330	1.00	mg/L	1	TSM	07/03/22	0203	2284974	1	Total Organic Carbon Average						
Mercury Analysis-CVAA	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1531	2287509	2						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description					Analyst Comments												
1	SM 5310 B																	
2	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 21, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36879 Project: SOOP00119
Sample ID: 584794012 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 09:30
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1533	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Report Date: July 21, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36878 Project: SOOP00119
Sample ID: 584794013 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 10:33
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1534	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Report Date: July 21, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36884 Project: SOOP00119
Sample ID: 584794014 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 11:29
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1536	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36880 Project: SOOP00119
Sample ID: 584794015 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 12:40
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1538	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

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SQL: Sample Quantitation Limit

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Company : Santee Cooper
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36881 Project: SOOP00119
Sample ID: 584794016 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 12:45
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1539	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
Address : P.O. Box 2946101
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Contact: Moncks Corner, South Carolina 29461
Project: Ms. Jeanette Gilmetti
ABS Lab Analytical

Client Sample ID: AF36882 Project: SOOP00119
Sample ID: 584794017 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 30-JUN-22 14:06
Receive Date: 01-JUL-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method						
Mercury Analysis-CVAA																		
7470 Cold Vapor Mercury, Liquid "As Received"																		
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/11/22	1545	2287509	1						
The following Prep Methods were performed:																		
Method	Description			Analyst	Date	Time	Prep Batch											
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid			RM4	07/08/22	1233	2287507											
The following Analytical Methods were performed:																		
Method	Description			Analyst Comments														
1	SW846 7470A																	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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QC Summary

Report Date: July 21, 2022

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Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 584794

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time	
Carbon Analysis												
Batch	2284169											
QC1205130775	584794008	DUP										
Total Organic Carbon Average			2.07		2.18	mg/L	5.17 ^	(+/-1.00)	TSM	07/04/22	17:47	
QC1205129026	LCS											
Total Organic Carbon Average		10.0			9.84	mg/L	98.4	(80%-120%)		07/04/22	12:23	
QC1205129025	MB											
Total Organic Carbon Average				U	ND	mg/L				07/04/22	12:13	
QC1205130776	584794008	PS										
Total Organic Carbon Average		10.0		2.07	11.7	mg/L	96.1	(65%-120%)		07/04/22	18:07	
Batch	2284974											
QC1205130451	584794001	DUP										
Total Organic Carbon Average			J	0.441	J	0.444	mg/L	0.678 ^	(+/-1.00)	TSM	07/02/22	23:27
QC1205130450	LCS											
Total Organic Carbon Average		10.0			9.96	mg/L	99.6	(80%-120%)		07/02/22	22:57	
QC1205130449	MB											
Total Organic Carbon Average				U	ND	mg/L				07/02/22	22:47	
QC1205130452	584794001	PS										
Total Organic Carbon Average		10.0	J	0.441	10.1	mg/L	96.1	(65%-120%)		07/02/22	23:46	
Metals Analysis-Mercury												
Batch	2287509											
QC1205135292	584794002	DUP										
Mercury			U	ND	U	ND	ug/L	N/A		JP2	07/11/22	14:59

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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **584794**

Page **2 of 3**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2287509										
QC1205135289	LCS										
Mercury		2.00		2.09	ug/L		104	(80%-120%)	JP2	07/11/22	14:46
QC1205135290	LCSD			2.08	ug/L	0.384	104	(0%-20%)		07/11/22	14:48
QC1205135288	MB			U	ND	ug/L				07/11/22	14:41
Mercury											
QC1205135293	584794002	MS		2.10	ug/L		105	(75%-125%)		07/11/22	15:01
Mercury		2.00	U	ND							
QC1205135294	584794002	SDILT		U	ND	U	ND	ug/L	N/A	(0%-10%)	07/11/22 15:12
Mercury											

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

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QC Summary

Workorder: **584794**

Page **3 of 3**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILIT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Santee Cooper
SDG #: 584794

Metals

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2287509

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2287507

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584794001	AF36885
584794002	AF36886
584794003	AF36887
584794004	AF36877
584794005	AF36883
584794007	AF36908
584794008	AF36903
584794009	AF36905
584794010	AF36906
584794011	AF36907
584794012	AF36879
584794013	AF36878
584794014	AF36884
584794015	AF36880
584794016	AF36881
584794017	AF36882
1205135288	Method Blank (MB)CVAA
1205135289	Laboratory Control Sample (LCS)
1205135290	Laboratory Control Sample Duplicate (LCSD)
1205135294	584794002(AF36886L) Serial Dilution (SD)
1205135292	584794002(AF36886D) Sample Duplicate (DUP)
1205135293	584794002(AF36886S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2284169

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#

Client Sample Identification

584794008	AF36903
1205129025	Method Blank (MB)
1205129026	Laboratory Control Sample (LCS)
1205130775	584794008(AF36903) Sample Duplicate (DUP)
1205130776	584794008(AF36903) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2284974

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#

Client Sample Identification

584794001	AF36885
584794002	AF36886
584794003	AF36887
584794006	AF36904
584794009	AF36905
584794010	AF36906
584794011	AF36907
1205130449	Method Blank (MB)
1205130450	Laboratory Control Sample (LCS)
1205130451	584794001(AF36885) Sample Duplicate (DUP)
1205130452	584794001(AF36885) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecooper.com

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P) Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD/ 226 + TOTAL RAD CMC	Hg	TBC		
AF36885	CCMLF-1	6/29/22	0930	DEW ML	4	P/G	G	GW	2/3/1	Hg 74-70 RL<0.200 PPB	2	x	1	1
86	CCMLF-1D		1033		4	P/G								
87	CCMLF-2		1140		4	P/G								
77	COMAP-1		1310		3	P			2		2	x	1	-
83	COMAP-6		1408		3	P			1		2	x	1	-
AF36904	POZ-5D	6/28/22	1003	L	1	G	G	GW	3/1		-	-	-	1
AF36908	POZ-8	6/28/22	1050	L	X3	P	L	J	2		2	x	1	-

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only) TEMP (°C): _____ Initial: _____
SPWour	35594	7/1/22	0934	JL	GEL	7/1/22	0934	Correct pH: Yes No
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time	Preservative Lot#:
JL	GEL	7/1/22	1500	JUL	GEL	7/1/22	1500	Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb		<input type="checkbox"/> TOC	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se		<input type="checkbox"/> DOC	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> %Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn		<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr		<input type="checkbox"/> NH3-N	<input type="checkbox"/> TOC	<input type="checkbox"/> BTUs	<input type="checkbox"/> Mineral Analysis	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti		<input type="checkbox"/> VOC	<input type="checkbox"/> Total metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl		<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> IFT
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> E. Coli	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> Sulfites	<input type="checkbox"/> NPDES	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> pH	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg		<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> HGI	<input type="checkbox"/> As	<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> Rad 226	<input type="checkbox"/> Rad 228	<input type="checkbox"/> Fineness	<input type="checkbox"/> TSS	<input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb Hg)
				<input type="checkbox"/> PCB	<input type="checkbox"/> Chlorides	<input type="checkbox"/> Particle Size		<input type="checkbox"/> TX GOFER
					<input type="checkbox"/> Sulfur	<input type="checkbox"/> Particulate Matter		

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid,

Page 26 of 295 SPW 584794 Rev Y

Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

584794 S84795



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Chain of Custody

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecooper.com

125915 / JM02.08.GP1.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226/228	TOTAL RAD CALC.	Hg	TOC
AF36903	Poz-4	6/28/22	1135	DEW ML	4	P+G	G	GW	2/3	Hg 7470 RL <0.200 PPB	2	X	1	1
05	Poz-6		1322		1									
06	Poz-7		1444		1									
07	Poz-7 DUP		1446	-	1									
AF36879	CCMAP-3	6/30/22	0930		3	P	G	GW	2		2	X	1	
78	CCMAP-2		1033		1									
84	CCMAP-7		1129		1									
80	CCMAP-4		1240		1									
81	CCMAP-4 DUP		1245		1									
82	CCMAP-5		1406	-	1									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sjbrown	35594	7/1/22	0934		GEL	7/1/22	0934
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
jjw	GEL	7-1-22	1500	Yuliya	GEL	7/1/22	1500
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> %Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> Cl	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> NO2	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> IFT	<input type="checkbox"/> IFI
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> Br	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> Dissolved Gases	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> NO3	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Sieve	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Sulfites	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Flashpoint	<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> CHCl	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> Metals in oil
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> (As, Cd, Cr, Ni, Pb)	<input type="checkbox"/> (As, Cd, Cr, Ni, Pb)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfites	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Hg	<input type="checkbox"/> Hg
				<input type="checkbox"/> PCB	<input type="checkbox"/> Chlorides	<input type="checkbox"/> Particulate Size	<input type="checkbox"/> TX	<input type="checkbox"/> TX
					<input type="checkbox"/> Sulfur	<input type="checkbox"/> TSS	<input type="checkbox"/> GOFER	<input type="checkbox"/> GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid,

Page 27 of 29 SDC 584794 Rev A1 bottom ash, M-misc (describe in comment section)

Preservative code: 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

KW 7-5-22

JR

Client: SOOP	SDG/AR/COC/Work Order: 584795 584794/584785/4795
Received By: MVH	Date Received: 07/01/2022
Carrier and Tracking Number	
Suspected Hazard Information <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <p>*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.</p>	
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/> Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ____ No ____
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/> If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA <input type="checkbox"/> No <p>Comments/Qualifiers (Required for Non-Conforming Items)</p>	
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/> Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/> Preservation Method: Wet ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 4
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/> Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/> Sample ID's and Containers Affected: If Preservation added, Lot#: X sample had a high pH level
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/> If Yes, are Encores or Soil Kits present for solids? Yes ____ No ____ NA ____ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ____ No ____ NA ____ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ____ No ____ NA ____ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/> ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/> ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/> Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/> Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/> _____
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/> Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):	

PM (or PMA) review: Initials **KW** Date **7/5/22** Page ____ of ____

List of current GEL Certifications as of 21 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



August 01, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 584795

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

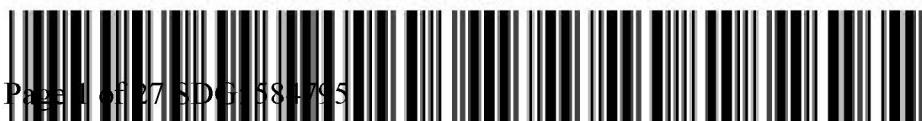
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 584795 GEL Work Order: 584795

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by

Julie Robinson

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36885	Project:	SOOP00119
Sample ID:	584795001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 09:30		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.557	+/-1.09	1.91	3.00	pCi/L		CT2	07/14/22	1059	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.48	+/-1.15			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.927	+/-0.375	0.401	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36886	Project:	SOOP00119
Sample ID:	584795002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 10:33		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	1.07	+/-1.10	1.83	3.00	pCi/L		CT2	07/14/22	1059	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.60	+/-1.13			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.528	+/-0.261	0.266	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36887	Project:	SOOP00119
Sample ID:	584795003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 11:40		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.953	+/-0.838	1.34	3.00	pCi/L		CT2	07/14/22	1059	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.36	+/-0.869			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.411	+/-0.230	0.225	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	Result Nominal Recovery% Acceptable Limits 82 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Contact: Moncks Corner, South Carolina 29461
 Project: Ms. Jeanette Gilmetti
 ABS Lab Analytical

Client Sample ID:	AF36877	Project:	SOOP00119
Sample ID:	584795004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 13:10		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.104	+/-0.822	1.54	3.00	pCi/L		CT2	07/14/22	1100	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		0.498	+/-0.850			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.394	+/-0.216	0.236	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36883	Project:	SOOP00119
Sample ID:	584795005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	29-JUN-22 14:08		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	-0.622	+/-0.961	1.93	3.00	pCi/L		CT2	07/14/22	1100	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		0.835	+/-1.01			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.835	+/-0.321	0.298	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36908	Project:	SOOP00119
Sample ID:	584795006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 10:50		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.702	+/-1.38	2.39	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.09	+/-1.40			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.386	+/-0.275	0.397	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36903	Project:	SOOP00119
Sample ID:	584795007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 11:35		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	-0.993	+/-1.01	2.06	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.50	+/-1.14			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.50	+/-0.535	0.338	1.00	pCi/L		CT2	07/20/22	0751	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Company : Santee Cooper
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 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36905	Project:	SOOP00119
Sample ID:	584795008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 13:22		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	-0.339	+/-0.850	1.69	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		0.447	+/-0.883			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.447	+/-0.241	0.228	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36906	Project:	SOOP00119
Sample ID:	584795009	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 14:41		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228		2.56	+/-1.43	2.21	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.34	+/-1.51			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.78	+/-0.460	0.312	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.2	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36907	Project:	SOOP00119
Sample ID:	584795010	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	28-JUN-22 14:46		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.702	+/-1.02	1.75	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.81	+/-1.09			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.11	+/-0.405	0.420	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36879	Project:	SOOP00119
Sample ID:	584795011	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	30-JUN-22 09:30		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.582	+/-1.11	1.94	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.59	+/-1.16			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.01	+/-0.336	0.254	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	84.8 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36878	Project:	SOOP00119
Sample ID:	584795012	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	30-JUN-22 10:33		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	-0.352	+/-0.850	1.68	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		0.608	+/-0.896			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.608	+/-0.282	0.326	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36884	Project:	SOOP00119
Sample ID:	584795013	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	30-JUN-22 11:29		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	0.457	+/-0.952	1.68	3.00	pCi/L		CT2	07/14/22	1101	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.02	+/-0.985			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.568	+/-0.254	0.207	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36880	Project:	SOOP00119
Sample ID:	584795014	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	30-JUN-22 12:40		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	-1.14	+/-0.835	1.82	3.00	pCi/L		CT2	07/14/22	1102	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.45	+/-1.05			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.45	+/-0.640	0.181	1.00	pCi/L		CT2	07/20/22	0826	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36881	Project:	SOOP00119
Sample ID:	584795015	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	30-JUN-22 12:45		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228		4.25	+/-1.61	2.28	3.00	pCi/L		CT2	07/14/22	1102	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.96	+/-1.63			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.712	+/-0.296	0.227	1.00	pCi/L		CT2	07/20/22	0858	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	
Surrogate/Tracer Recovery	Test	
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"	Result Nominal Recovery% Acceptable Limits 83.1 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF36882	Project:	SOOP00119
Sample ID:	584795016	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	30-JUN-22 14:06		
Receive Date:	01-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method	
Rad Gas Flow Proportional Counting														
GFPC, Ra228, Liquid "As Received"														
Radium-228	U	-0.313	+/-1.14	2.21	3.00	pCi/L		CT2	07/14/22	1313	2285020		1	
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		0.686	+/-1.18			pCi/L		1	NXL1	07/25/22	1104	2285019		2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.686	+/-0.318	0.396	1.00	pCi/L		CT2	07/20/22	0858	2285011		3	

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 1, 2022

Page 1 of 2

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 584795

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2285020										
Radium-228	QC1205130576	584795001	DUP								
				U	0.557	1.18	pCi/L	71.5	(0% - 100%)	CT2	07/14/22 10:58
				Uncertainty	+/-1.09	+/-0.758					
Radium-228	QC1205130577	LCS									
				44.9		42.9	pCi/L	95.5	(75%-125%)		07/14/22 10:58
				Uncertainty		+/-3.26					
Radium-228	QC1205130575	MB									
				U	1.02	pCi/L					07/14/22 13:13
				Uncertainty	+/-1.07						
Rad Ra-226											
Batch	2285011										
Radium-226	QC1205130553	584795001	DUP								
				U	0.927	0.756	pCi/L	20.3	(0% - 100%)	CT2	07/20/22 08:58
				Uncertainty	+/-0.375	+/-0.288					
Radium-226	QC1205130555	LCS									
				26.5		20.4	pCi/L	76.9	(75%-125%)		07/20/22 08:58
				Uncertainty		+/-1.49					
Radium-226	QC1205130552	MB									
				U	0.291	pCi/L					07/20/22 08:58
				Uncertainty	+/-0.261						
Radium-226	QC1205130554	MS									
				130	0.927	100	pCi/L	76.4	(75%-125%)		07/20/22 08:58
				Uncertainty	+/-0.375	+/-6.84					

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

BD Results are either below the MDC or tracer recovery is low

FA Failed analysis.

QC Summary

Workorder: 584795

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
H	Analytical holding time was exceeded										
J	See case narrative for an explanation										
J	Value is estimated										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
M	M if above MDC and less than LLD										
M	REMP Result > MDC/CL and < RDL										
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 584795

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2285019

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584795001	AF36885
584795002	AF36886
584795003	AF36887
584795004	AF36877
584795005	AF36883
584795006	AF36908
584795007	AF36903
584795008	AF36905
584795009	AF36906
584795010	AF36907
584795011	AF36879
584795012	AF36878
584795013	AF36884
584795014	AF36880
584795015	AF36881
584795016	AF36882

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2285020

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584795001	AF36885
584795002	AF36886
584795003	AF36887
584795004	AF36877

584795005	AF36883
584795006	AF36908
584795007	AF36903
584795008	AF36905
584795009	AF36906
584795010	AF36907
584795011	AF36879
584795012	AF36878
584795013	AF36884
584795014	AF36880
584795015	AF36881
584795016	AF36882
1205130575	Method Blank (MB)
1205130576	584795001(AF36885) Sample Duplicate (DUP)
1205130577	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Sample 1205130575 (MB) was recounted due to a suspected blank false positive. The recount is reported. Sample 584795016 (AF36882) was recounted due to results more negative than the three sigma TPU. The second count is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2285011

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
584795001	AF36885
584795002	AF36886
584795003	AF36887
584795004	AF36877
584795005	AF36883
584795006	AF36908
584795007	AF36903
584795008	AF36905
584795009	AF36906
584795010	AF36907
584795011	AF36879
584795012	AF36878
584795013	AF36884

584795014	AF36880
584795015	AF36881
584795016	AF36882
1205130552	Method Blank (MB)
1205130553	584795001(AF36885) Sample Duplicate (DUP)
1205130554	584795001(AF36885) Matrix Spike (MS)
1205130555	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205130554 (AF36885MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody

 santee cooper

Santee Cooper
One Riverwood Drive
Monecks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-8000

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LAWILLIA @santeecooper.com

— / — /

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SMBrown	35594	7/1/22	0934	JL	GEL	7/1/22	0934
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
JL	GEL	7/1/22	1500	JULIE	GEL	7/1/22	1500
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Metals (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb		<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se		<input type="checkbox"/> DOC	<input type="checkbox"/> Napthalene	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn		<input type="checkbox"/> TP/TP04	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr		<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> %Moisture
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti		<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Acidity
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl		<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> IPT
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg		<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Sulfites	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Flashpoint
					<input type="checkbox"/> Rad 226	<input type="checkbox"/> Chlorides	<input type="checkbox"/> HGI	<input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg)
					<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Fineness	<input type="checkbox"/> As
					<input type="checkbox"/> PCB	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> TX
							<input type="checkbox"/> NPDES	<input type="checkbox"/> GOFER
							<input type="checkbox"/> Oil & Grease	
							<input type="checkbox"/> TSS	

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

@santeecooper.com

____ / ____ / ____

125915 / JM62.08.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226/228	Total Rad Calc	Hg	TDC
AF36903	Poz-4	6/28/22	1135	DEW ML	4	P G	G	GW	2/31	Hg 7470 RL <0.200 PPB	2	X	1	1
05	Poz-6		1322											
06	Poz-7		1441											
07	Poz-7 DUP		1446	-										
AF36879	CCMAP-3	6/30/22	0930		3	P	G	GW	2		2	X	1	
78	CCMAP-2		1033											
84	CCMAP-7		1129											
80	CCMAP-4		1240											
81	CCMAP-4 DUP		1245											
82	CCMAP-5		1406	-										

Relinquished by:

Sjbrown

Employee#:

35594

Date:

7/1/22

Time:

0934

Received by:

GEL

Employee #:

7/1/22

Date:

0934

Time:

Relinquished by:

Sjbrown

Employee#:

GEL

Date:

7/1/22

Time:

1500

Received by:

GEL

Employee #:

7/1/22

Date:

1500

Time:

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#: _____

Date/Time/Init for preservative: _____

 METALS (all)

<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI

Nutrients

<input type="checkbox"/> TOC
<input type="checkbox"/> DOC
<input type="checkbox"/> TP/TPO4
<input type="checkbox"/> NH3-N
<input type="checkbox"/> F
<input type="checkbox"/> Cl
<input type="checkbox"/> NO2
<input type="checkbox"/> Br
<input type="checkbox"/> NO3
<input type="checkbox"/> SO4

MISC.

<input type="checkbox"/> BTEX
<input type="checkbox"/> Napthalene
<input type="checkbox"/> THM/HAA
<input type="checkbox"/> VOC
<input type="checkbox"/> Oil & Grease
<input type="checkbox"/> E. Coli
<input type="checkbox"/> Total Coliform
<input type="checkbox"/> pH
<input type="checkbox"/> Dissolved As
<input type="checkbox"/> Dissolved Fe
<input type="checkbox"/> Rad 226
<input type="checkbox"/> Rad 228
<input type="checkbox"/> PCB

Gypsum

<input type="checkbox"/> Wallboard
<input type="checkbox"/> Gypsum(all below)
<input type="checkbox"/> AIM
<input type="checkbox"/> TOC
<input type="checkbox"/> Total metals
<input type="checkbox"/> Soluble Metals
<input type="checkbox"/> Purity (CaSO4)
<input type="checkbox"/> % Moisture
<input type="checkbox"/> Sulfites
<input type="checkbox"/> pH
<input type="checkbox"/> Chlorides
<input type="checkbox"/> Particle Size
<input type="checkbox"/> Sulfur

Coal

<input type="checkbox"/> Ultimate
<input type="checkbox"/> % Moisture
<input type="checkbox"/> Ash
<input type="checkbox"/> Sulfur
<input type="checkbox"/> BTUs
<input type="checkbox"/> Volatile Matter
<input type="checkbox"/> CHN
<input type="checkbox"/> Other Tests:
<input type="checkbox"/> XRF Scan
<input type="checkbox"/> HGI
<input type="checkbox"/> Fineness
<input type="checkbox"/> Particulate Matter

Flyash

<input type="checkbox"/> Ammonia
<input type="checkbox"/> LOI
<input type="checkbox"/> % Carbon
<input type="checkbox"/> Mineral Analysis
<input type="checkbox"/> Sieve
<input type="checkbox"/> % Moisture
<input type="checkbox"/> NPDES
<input type="checkbox"/> Oil & Grease
<input type="checkbox"/> As
<input type="checkbox"/> TSS

Oil

<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> %Moisture
<input type="checkbox"/> Color
<input type="checkbox"/> Acidity
<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> IFT
<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Used Oil
<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Metals in oil (As,Cd,Cr,Ni,Pb,Hg)
<input type="checkbox"/> TX
<input type="checkbox"/> GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid,

Geopol-Gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)



Laboratories LLC

KW 7-5-22

SAMPLE RECEIPT & REVIEW FORM

Client: <u>SOOP</u>		SDG/AR/CO/COC/Work Order: <u>584795</u> <u>584794</u> / <u>584785</u> / <u>479S</u>	
Received By: MVH		Date Received: <u>07/01/2022</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <input checked="" type="radio"/> Courier Other	
Suspected Hazard Information		Yes	No
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/> Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes _____ No _____	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/> If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	NA
1 Shipping containers received intact and sealed?		<input checked="" type="checkbox"/>	No
2 Chain of custody documents included with shipment?		<input checked="" type="checkbox"/> Circle Applicable: Client contacted and provided COC COC created upon receipt	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/> Preservation Method: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry ice <input type="checkbox"/> None <input type="checkbox"/> Other: *all temperatures are recorded in Celsius TEMP: <u>4</u>	
4 Daily check performed and passed on IR temperature gun?		<input checked="" type="checkbox"/> Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable): _____	
5 Sample containers intact and sealed?		<input checked="" type="checkbox"/> Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/> Sample ID's and Containers Affected: If Preservation added, Lot#: <u>XCOMLE-2 had a high pH level</u>	
7 Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/> If Yes, are Encores or Soil Kits present for solids? Yes _____ No _____ NA _____ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes _____ No _____ NA _____ (If unknown, select No) Are liquid VOA vials free of headspace? Yes _____ No _____ NA _____ Sample ID's and containers affected:	
8 Samples received within holding time?		<input checked="" type="checkbox"/> ID's and tests affected:	
9 Sample ID's on COC match ID's on bottles?		<input checked="" type="checkbox"/> ID's and containers affected:	
10 Date & time on COC match date & time on bottles?		<input checked="" type="checkbox"/> Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
11 Number of containers received match number indicated on COC?		<input checked="" type="checkbox"/> Circle Applicable: No container count on COC Other (describe)	
12 Are sample containers identifiable as GEL provided by use of GEL labels?		<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?		<input checked="" type="checkbox"/> Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials JW Date 7/5/22 Page of

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 01 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



Environment Testing
America



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-220687-1
Client Project/Site: 125915/JM02.08.G01.3/36500
Revision: 1

For:
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by:
9/15/2022 6:42:47 PM

Jerry Lanier, Project Manager I
(912)250-0281
Jerry.Lanier@et.eurofinsus.com

LINKS

Review your project
results through



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

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

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

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Case Narrative

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Job ID: 680-220687-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-220687-1

Receipt

The samples were received on 9/7/2022 10:30 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 27.0°C

Revision

The final report was revised to include additional metals per client request.

Metals

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

Sample Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-220687-1	AF36905	Water	06/28/22 13:22	09/07/22 10:30
680-220687-2	AF36906	Water	06/28/22 14:41	09/07/22 10:30
680-220687-3	AF36907	Water	06/28/22 14:46	09/07/22 10:30
680-220687-4	AF36908	Water	06/28/22 10:50	09/07/22 10:30
680-220687-5	AF36886	Water	06/29/22 10:33	09/07/22 10:30
680-220687-6	AF36887	Water	06/29/22 11:40	09/07/22 10:30
680-220687-7	AF36888	Water	06/21/22 10:04	09/07/22 10:30
680-220687-8	AF36889	Water	06/21/22 11:09	09/07/22 10:30
680-220687-9	AF36890	Water	06/21/22 11:14	09/07/22 10:30
680-220687-10	AF36891	Water	06/21/22 12:31	09/07/22 10:30
680-220687-11	AF36892	Water	06/21/22 13:23	09/07/22 10:30
680-220687-12	AF36893	Water	06/21/22 14:23	09/07/22 10:30
680-220687-13	AF36901	Water	06/20/22 15:31	09/07/22 10:30
680-220687-14	AF36903	Water	06/28/22 11:35	09/07/22 10:30
680-220687-15	AF36861	Water	06/22/22 12:53	09/07/22 10:30
680-220687-16	AF36863	Water	06/23/22 16:08	09/07/22 10:30
680-220687-17	AF36864	Water	06/23/22 14:49	09/07/22 10:30
680-220687-18	AF36865	Water	06/23/22 13:27	09/07/22 10:30
680-220687-19	AF36866	Water	06/23/22 12:15	09/07/22 10:30
680-220687-20	AF36867	Water	06/23/22 11:16	09/07/22 10:30
680-220687-21	AF36868	Water	06/23/22 10:05	09/07/22 10:30
680-220687-22	AF36869	Water	06/22/22 15:40	09/07/22 10:30
680-220687-23	AF36870	Water	06/22/22 15:45	09/07/22 10:30
680-220687-24	AF36871	Water	06/22/22 14:45	09/07/22 10:30
680-220687-25	AF36874	Water	06/22/22 10:27	09/07/22 10:30
680-220687-26	AF36876	Water	06/20/22 14:16	09/07/22 10:30
680-220687-27	AF36877	Water	06/29/22 13:10	09/07/22 10:30
680-220687-28	AF36878	Water	06/30/22 10:33	09/07/22 10:30
680-220687-29	AF36879	Water	06/30/22 09:30	09/07/22 10:30
680-220687-30	AF36880	Water	06/30/22 12:40	09/07/22 10:30
680-220687-31	AF36881	Water	06/30/22 12:45	09/07/22 10:30
680-220687-32	AF36882	Water	06/30/22 14:06	09/07/22 10:30
680-220687-33	AF36883	Water	06/29/22 14:08	09/07/22 10:30
680-220687-34	AF36884	Water	06/30/22 11:29	09/07/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

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.

✉	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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36905

Lab Sample ID: 680-220687-1

No Detections.

Client Sample ID: AF36906

Lab Sample ID: 680-220687-2

No Detections.

Client Sample ID: AF36907

Lab Sample ID: 680-220687-3

No Detections.

Client Sample ID: AF36908

Lab Sample ID: 680-220687-4

No Detections.

Client Sample ID: AF36886

Lab Sample ID: 680-220687-5

No Detections.

Client Sample ID: AF36887

Lab Sample ID: 680-220687-6

No Detections.

Client Sample ID: AF36888

Lab Sample ID: 680-220687-7

No Detections.

Client Sample ID: AF36889

Lab Sample ID: 680-220687-8

No Detections.

Client Sample ID: AF36890

Lab Sample ID: 680-220687-9

No Detections.

Client Sample ID: AF36891

Lab Sample ID: 680-220687-10

No Detections.

Client Sample ID: AF36892

Lab Sample ID: 680-220687-11

No Detections.

Client Sample ID: AF36893

Lab Sample ID: 680-220687-12

No Detections.

Client Sample ID: AF36901

Lab Sample ID: 680-220687-13

No Detections.

Client Sample ID: AF36903

Lab Sample ID: 680-220687-14

No Detections.

Client Sample ID: AF36861

Lab Sample ID: 680-220687-15

No Detections.

Client Sample ID: AF36863

Lab Sample ID: 680-220687-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36864	Lab Sample ID: 680-220687-17
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36865	Lab Sample ID: 680-220687-18
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36866	Lab Sample ID: 680-220687-19
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36867	Lab Sample ID: 680-220687-20
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36868	Lab Sample ID: 680-220687-21
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36869	Lab Sample ID: 680-220687-22
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36870	Lab Sample ID: 680-220687-23
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36871	Lab Sample ID: 680-220687-24
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36874	Lab Sample ID: 680-220687-25
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36876	Lab Sample ID: 680-220687-26
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36877	Lab Sample ID: 680-220687-27
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36878	Lab Sample ID: 680-220687-28
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36879	Lab Sample ID: 680-220687-29
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36880	Lab Sample ID: 680-220687-30
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36881	Lab Sample ID: 680-220687-31
<input type="checkbox"/> No Detections.	
Client Sample ID: AF36882	Lab Sample ID: 680-220687-32
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36883

No Detections.

Lab Sample ID: 680-220687-33

Client Sample ID: AF36884

No Detections.

Lab Sample ID: 680-220687-34

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36905

Lab Sample ID: 680-220687-1

Matrix: Water

Date Collected: 06/28/22 13:22
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 22:40	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36906

Lab Sample ID: 680-220687-2

Matrix: Water

Date Collected: 06/28/22 14:41
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 22:37	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36907

Lab Sample ID: 680-220687-3

Matrix: Water

Date Collected: 06/28/22 14:46

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 22:44	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36908

Lab Sample ID: 680-220687-4

Matrix: Water

Date Collected: 06/28/22 10:50
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 22:48	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36886

Lab Sample ID: 680-220687-5

Matrix: Water

Date Collected: 06/29/22 10:33
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 22:51	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36887

Lab Sample ID: 680-220687-6

Matrix: Water

Date Collected: 06/29/22 11:40

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 23:54	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36888

Lab Sample ID: 680-220687-7

Matrix: Water

Date Collected: 06/21/22 10:04
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 23:02	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36889

Lab Sample ID: 680-220687-8

Matrix: Water

Date Collected: 06/21/22 11:09

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 23:06	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36890

Lab Sample ID: 680-220687-9

Matrix: Water

Date Collected: 06/21/22 11:14
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	D	09/09/22 06:50	09/09/22 23:10	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36891

Lab Sample ID: 680-220687-10

Date Collected: 06/21/22 12:31

Matrix: Water

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:14	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36892

Lab Sample ID: 680-220687-11

Matrix: Water

Date Collected: 06/21/22 13:23
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:17	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36893

Lab Sample ID: 680-220687-12

Matrix: Water

Date Collected: 06/21/22 14:23
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:21	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36901

Lab Sample ID: 680-220687-13

Matrix: Water

Date Collected: 06/20/22 15:31
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:25	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36903

Lab Sample ID: 680-220687-14

Matrix: Water

Date Collected: 06/28/22 11:35
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:28	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36861

Lab Sample ID: 680-220687-15

Matrix: Water

Date Collected: 06/22/22 12:53
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:32	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36863

Lab Sample ID: 680-220687-16

Matrix: Water

Date Collected: 06/23/22 16:08
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:36	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36864

Lab Sample ID: 680-220687-17

Matrix: Water

Date Collected: 06/23/22 14:49
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:47	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36865

Lab Sample ID: 680-220687-18

Matrix: Water

Date Collected: 06/23/22 13:27

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:50	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36866

Lab Sample ID: 680-220687-19

Matrix: Water

Date Collected: 06/23/22 12:15
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 22:26	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36867

Lab Sample ID: 680-220687-20

Date Collected: 06/23/22 11:16

Matrix: Water

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 23:58	1
Thallium	1.00	U	1.00		ug/L		09/09/22 06:50	09/09/22 23:58	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36868

Lab Sample ID: 680-220687-21

Matrix: Water

Date Collected: 06/23/22 10:05
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:02	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36869

Lab Sample ID: 680-220687-22

Matrix: Water

Date Collected: 06/22/22 15:40
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:13	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36870

Lab Sample ID: 680-220687-23

Date Collected: 06/22/22 15:45

Matrix: Water

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:17	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36871

Lab Sample ID: 680-220687-24

Matrix: Water

Date Collected: 06/22/22 14:45
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:21	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36874

Lab Sample ID: 680-220687-25

Matrix: Water

Date Collected: 06/22/22 10:27
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:24	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36876

Lab Sample ID: 680-220687-26

Matrix: Water

Date Collected: 06/20/22 14:16
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:28	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36877

Lab Sample ID: 680-220687-27

Matrix: Water

Date Collected: 06/29/22 13:10
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:39	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36878

Lab Sample ID: 680-220687-28

Date Collected: 06/30/22 10:33

Matrix: Water

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:43	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36879

Lab Sample ID: 680-220687-29

Matrix: Water

Date Collected: 06/30/22 09:30
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:46	1
Thallium	1.00	U	1.00		ug/L		09/09/22 06:54	09/10/22 03:46	1
Arsenic	3.00	U	3.00		ug/L		09/09/22 06:54	09/10/22 03:46	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36880

Lab Sample ID: 680-220687-30

Date Collected: 06/30/22 12:40

Matrix: Water

Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:50	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36881

Lab Sample ID: 680-220687-31

Matrix: Water

Date Collected: 06/30/22 12:45
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:54	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36882

Lab Sample ID: 680-220687-32

Matrix: Water

Date Collected: 06/30/22 14:06
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 03:57	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36883

Lab Sample ID: 680-220687-33

Matrix: Water

Date Collected: 06/29/22 14:08
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 04:01	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36884

Lab Sample ID: 680-220687-34

Matrix: Water

Date Collected: 06/30/22 11:29
Date Received: 09/07/22 10:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 04:05	1

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-739531/1-A

Matrix: Water

Analysis Batch: 739706

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L		09/09/22 06:50	09/09/22 22:18	1
Thallium	1.00	U	1.00		ug/L		09/09/22 06:50	09/09/22 22:18	1
Arsenic	3.00	U	3.00		ug/L		09/09/22 06:50	09/09/22 22:18	1

Lab Sample ID: LCS 680-739531/2-A

Matrix: Water

Analysis Batch: 739706

Analyte	Spike Added	LCS		Unit	D	% Rec	Limits
		Result	Qualifier				
Antimony	50.0	52.22		ug/L		105	80 - 120
Thallium	50.0	52.29		ug/L		105	80 - 120
Arsenic	100	106.7		ug/L		107	80 - 120

Lab Sample ID: 680-220687-19 MS

Matrix: Water

Analysis Batch: 739706

Analyte	Sample		Spike Added	MS		Unit	D	% Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	5.00	U	50.0	47.21		ug/L		95	75 - 125
Thallium	1.00	U	50.0	48.08		ug/L		96	75 - 125
Arsenic	3.00	U	100	97.53		ug/L		98	75 - 125

Lab Sample ID: 680-220687-19 MSD

Matrix: Water

Analysis Batch: 739706

Analyte	Sample		Spike Added	MSD		Unit	D	% Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	5.00	U	50.0	51.81		ug/L		104	75 - 125	9	20
Thallium	1.00	U	50.0	51.95		ug/L		104	75 - 125	8	20
Arsenic	3.00	U	100	107.0		ug/L		107	75 - 125	9	20

Lab Sample ID: MB 680-739532/1-A

Matrix: Water

Analysis Batch: 739706

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L		09/09/22 06:54	09/10/22 02:55	1
Thallium	1.00	U	1.00		ug/L		09/09/22 06:54	09/10/22 02:55	1
Arsenic	3.00	U	3.00		ug/L		09/09/22 06:54	09/10/22 02:55	1

Lab Sample ID: LCS 680-739532/2-A

Matrix: Water

Analysis Batch: 739706

Analyte	Spike Added	LCS		Unit	D	% Rec	Limits
		Result	Qualifier				
Antimony	50.0	43.66		ug/L		87	80 - 120
Thallium	50.0	43.55		ug/L		87	80 - 120
Arsenic	100	91.08		ug/L		91	80 - 120

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-220687-21 MS

Matrix: Water

Analysis Batch: 739706

Client Sample ID: AF36868

Prep Type: Total Recoverable

Prep Batch: 739532

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Antimony	5.00	U	50.0	42.93		ug/L		86	75 - 125
Thallium	1.00	U	50.0	42.56		ug/L		85	75 - 125
Arsenic	3.04		100	92.05		ug/L		89	75 - 125

Lab Sample ID: 680-220687-21 MSD

Matrix: Water

Analysis Batch: 739706

Client Sample ID: AF36868

Prep Type: Total Recoverable

Prep Batch: 739532

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Antimony	5.00	U	50.0	48.66		ug/L		97	75 - 125	13
Thallium	1.00	U	50.0	48.91		ug/L		97	75 - 125	14
Arsenic	3.04		100	103.5		ug/L		100	75 - 125	12

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Metals

Prep Batch: 739531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220687-1	AF36905	Total Recoverable	Water	3005A	1
680-220687-2	AF36906	Total Recoverable	Water	3005A	2
680-220687-3	AF36907	Total Recoverable	Water	3005A	3
680-220687-4	AF36908	Total Recoverable	Water	3005A	4
680-220687-5	AF36886	Total Recoverable	Water	3005A	5
680-220687-6	AF36887	Total Recoverable	Water	3005A	6
680-220687-7	AF36888	Total Recoverable	Water	3005A	7
680-220687-8	AF36889	Total Recoverable	Water	3005A	8
680-220687-9	AF36890	Total Recoverable	Water	3005A	9
680-220687-10	AF36891	Total Recoverable	Water	3005A	10
680-220687-11	AF36892	Total Recoverable	Water	3005A	11
680-220687-12	AF36893	Total Recoverable	Water	3005A	12
680-220687-13	AF36901	Total Recoverable	Water	3005A	13
680-220687-14	AF36903	Total Recoverable	Water	3005A	14
680-220687-15	AF36861	Total Recoverable	Water	3005A	
680-220687-16	AF36863	Total Recoverable	Water	3005A	
680-220687-17	AF36864	Total Recoverable	Water	3005A	
680-220687-18	AF36865	Total Recoverable	Water	3005A	
680-220687-19	AF36866	Total Recoverable	Water	3005A	
680-220687-20	AF36867	Total Recoverable	Water	3005A	
MB 680-739531/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-739531/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220687-19 MS	AF36866	Total Recoverable	Water	3005A	
680-220687-19 MSD	AF36866	Total Recoverable	Water	3005A	

Prep Batch: 739532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220687-21	AF36868	Total Recoverable	Water	3005A	1
680-220687-22	AF36869	Total Recoverable	Water	3005A	2
680-220687-23	AF36870	Total Recoverable	Water	3005A	3
680-220687-24	AF36871	Total Recoverable	Water	3005A	4
680-220687-25	AF36874	Total Recoverable	Water	3005A	5
680-220687-26	AF36876	Total Recoverable	Water	3005A	6
680-220687-27	AF36877	Total Recoverable	Water	3005A	7
680-220687-28	AF36878	Total Recoverable	Water	3005A	8
680-220687-29	AF36879	Total Recoverable	Water	3005A	9
680-220687-30	AF36880	Total Recoverable	Water	3005A	10
680-220687-31	AF36881	Total Recoverable	Water	3005A	11
680-220687-32	AF36882	Total Recoverable	Water	3005A	12
680-220687-33	AF36883	Total Recoverable	Water	3005A	13
680-220687-34	AF36884	Total Recoverable	Water	3005A	14
MB 680-739532/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-739532/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220687-21 MS	AF36868	Total Recoverable	Water	3005A	
680-220687-21 MSD	AF36868	Total Recoverable	Water	3005A	

Analysis Batch: 739706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220687-1	AF36905	Total Recoverable	Water	6020B	739531
680-220687-2	AF36906	Total Recoverable	Water	6020B	739531
680-220687-3	AF36907	Total Recoverable	Water	6020B	739531

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Metals (Continued)

Analysis Batch: 739706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220687-4	AF36908	Total Recoverable	Water	6020B	739531
680-220687-5	AF36886	Total Recoverable	Water	6020B	739531
680-220687-6	AF36887	Total Recoverable	Water	6020B	739531
680-220687-7	AF36888	Total Recoverable	Water	6020B	739531
680-220687-8	AF36889	Total Recoverable	Water	6020B	739531
680-220687-9	AF36890	Total Recoverable	Water	6020B	739531
680-220687-10	AF36891	Total Recoverable	Water	6020B	739531
680-220687-11	AF36892	Total Recoverable	Water	6020B	739531
680-220687-12	AF36893	Total Recoverable	Water	6020B	739531
680-220687-13	AF36901	Total Recoverable	Water	6020B	739531
680-220687-14	AF36903	Total Recoverable	Water	6020B	739531
680-220687-15	AF36861	Total Recoverable	Water	6020B	739531
680-220687-16	AF36863	Total Recoverable	Water	6020B	739531
680-220687-17	AF36864	Total Recoverable	Water	6020B	739531
680-220687-18	AF36865	Total Recoverable	Water	6020B	739531
680-220687-19	AF36866	Total Recoverable	Water	6020B	739531
680-220687-20	AF36867	Total Recoverable	Water	6020B	739531
680-220687-21	AF36868	Total Recoverable	Water	6020B	739532
680-220687-22	AF36869	Total Recoverable	Water	6020B	739532
680-220687-23	AF36870	Total Recoverable	Water	6020B	739532
680-220687-24	AF36871	Total Recoverable	Water	6020B	739532
680-220687-25	AF36874	Total Recoverable	Water	6020B	739532
680-220687-26	AF36876	Total Recoverable	Water	6020B	739532
680-220687-27	AF36877	Total Recoverable	Water	6020B	739532
680-220687-28	AF36878	Total Recoverable	Water	6020B	739532
680-220687-29	AF36879	Total Recoverable	Water	6020B	739532
680-220687-30	AF36880	Total Recoverable	Water	6020B	739532
680-220687-31	AF36881	Total Recoverable	Water	6020B	739532
680-220687-32	AF36882	Total Recoverable	Water	6020B	739532
680-220687-33	AF36883	Total Recoverable	Water	6020B	739532
680-220687-34	AF36884	Total Recoverable	Water	6020B	739532
MB 680-739531/1-A	Method Blank	Total Recoverable	Water	6020B	739531
MB 680-739532/1-A	Method Blank	Total Recoverable	Water	6020B	739532
LCS 680-739531/2-A	Lab Control Sample	Total Recoverable	Water	6020B	739531
LCS 680-739532/2-A	Lab Control Sample	Total Recoverable	Water	6020B	739532
680-220687-19 MS	AF36866	Total Recoverable	Water	6020B	739531
680-220687-19 MSD	AF36866	Total Recoverable	Water	6020B	739531
680-220687-21 MS	AF36868	Total Recoverable	Water	6020B	739532
680-220687-21 MSD	AF36868	Total Recoverable	Water	6020B	739532

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36905

Date Collected: 06/28/22 13:22
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 22:40

Client Sample ID: AF36906

Date Collected: 06/28/22 14:41
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 22:37

Client Sample ID: AF36907

Date Collected: 06/28/22 14:46
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 22:44

Client Sample ID: AF36908

Date Collected: 06/28/22 10:50
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 22:48

Client Sample ID: AF36886

Date Collected: 06/29/22 10:33
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 22:51

Client Sample ID: AF36887

Date Collected: 06/29/22 11:40
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:54

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36888

Date Collected: 06/21/22 10:04
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:02

Client Sample ID: AF36889

Date Collected: 06/21/22 11:09
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:06

Client Sample ID: AF36890

Date Collected: 06/21/22 11:14
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:10

Client Sample ID: AF36891

Date Collected: 06/21/22 12:31
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:14

Client Sample ID: AF36892

Date Collected: 06/21/22 13:23
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:17

Client Sample ID: AF36893

Date Collected: 06/21/22 14:23
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:21

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36901

Date Collected: 06/20/22 15:31

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:25

Client Sample ID: AF36903

Date Collected: 06/28/22 11:35

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:28

Client Sample ID: AF36861

Date Collected: 06/22/22 12:53

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:32

Client Sample ID: AF36863

Date Collected: 06/23/22 16:08

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:36

Client Sample ID: AF36864

Date Collected: 06/23/22 14:49

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:47

Client Sample ID: AF36865

Date Collected: 06/23/22 13:27

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:50

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36866

Date Collected: 06/23/22 12:15
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 22:26

Client Sample ID: AF36867

Date Collected: 06/23/22 11:16
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739531	RR	EET SAV	09/09/22 06:50
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/09/22 23:58

Client Sample ID: AF36868

Date Collected: 06/23/22 10:05
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:02

Client Sample ID: AF36869

Date Collected: 06/22/22 15:40
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:13

Client Sample ID: AF36870

Date Collected: 06/22/22 15:45
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:17

Client Sample ID: AF36871

Date Collected: 06/22/22 14:45
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:21

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36874

Date Collected: 06/22/22 10:27

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:24

Client Sample ID: AF36876

Date Collected: 06/20/22 14:16

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:28

Client Sample ID: AF36877

Date Collected: 06/29/22 13:10

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:39

Client Sample ID: AF36878

Date Collected: 06/30/22 10:33

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:43

Client Sample ID: AF36879

Date Collected: 06/30/22 09:30

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:46

Client Sample ID: AF36880

Date Collected: 06/30/22 12:40

Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:50

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Client Sample ID: AF36881

Date Collected: 06/30/22 12:45
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:54

Client Sample ID: AF36882

Date Collected: 06/30/22 14:06
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 03:57

Client Sample ID: AF36883

Date Collected: 06/29/22 14:08
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 04:01

Client Sample ID: AF36884

Date Collected: 06/30/22 11:29
Date Received: 09/07/22 10:30

Lab Sample ID: 680-220687-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			739532	RR	EET SAV	09/09/22 06:54
Total Recoverable	Analysis	6020B		1	739706	BWR	EET SAV	09/10/22 04:05

Laboratory References:

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

Eurofins Savannah

Chain of Custody

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LAWILLIA @santeeconner.com

Date Results Needed by

125915 / JM02.08.GX1.3 / 36500

Yes **No**

Rerun request for any flagged QC

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
John Brown	35594	9/6/22	1500	DH	TM	9-7-22	1030
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Interval Use Only)
TEMP (°C): 27.1 / 27 Initial:

Correct pH: Yes No

Preservative Lot#:

Date/Time/init for preservative:

□ METALS (all)			Nutrients			MISC.			Gypsum			Coal			Flyash			Oil		
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.	<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> AIM	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Color			
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> Total metals	<input type="checkbox"/> Ash	<input type="checkbox"/> Acidity	<input type="checkbox"/> NH3-N	<input type="checkbox"/> Cl	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Sulfur	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Mineral	<input type="checkbox"/> IFT			
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NO2	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> BTUS	<input type="checkbox"/> Dielectric Strength	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> Rad 226	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Analysis	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dissolved Gases	<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> NO3	<input type="checkbox"/> NO2	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> % Moisture	<input type="checkbox"/> CHN	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Flashpoint	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> Cr	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 228	<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfites	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> NPDES	<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> pH	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> TX	<input type="checkbox"/> GOFER	<input type="checkbox"/> Cd	<input type="checkbox"/> Cr, Ni, Pb	<input type="checkbox"/> Hg	
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI			<input type="checkbox"/> PCB	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Fineness	<input type="checkbox"/> As	<input type="checkbox"/> As		<input type="checkbox"/> Sulfur	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> TSS	<input type="checkbox"/> TX	<input type="checkbox"/> GOFER					

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code: 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Chain of Custody

RUSH!!


santee cooper®
 Santee Cooper
 One Riverwood Drive
 Moncks Corner SC 29461
 Phone (843)761-8000 Ext. 5148
 Fax. (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia

@santeecoop.com

/ /

125915 / JMB2.08.G81.3 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments			
										• Method #			
										• Reporting limit			
										• Misc. sample info			
										• Any other notes			
AF36886	CCMLF-1D	6/29	1033	DEN ML	1	P	G	GW	2	6020 RL= 5 PPB	X		
87	1 2	1	1140										
88	CGMP-1	6/21	1004										
89	2		1109										
90	2 DUP		1114										
91	3		1231										
92	4		1323										
93	6	1	1423										
AF36901	PM-1	6/20	1531										
1 03	POZ- 4	6/28	1135	—	—	—	—	—	—				

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sgmoran	35594	9/6/22	1500	DR	TM	9/7/22	1050
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

☐ METALS (all)	Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
☐ Ag	☐ Cu	☐ Sb	☐ BTEX	☐ Ultimate	☐ Ammonia	☐ Trans. Oil Qual.
☐ Al	☐ Fe	☐ Se	☐ Naphthalene	☐ % Moisture	☐ LOI	☐ % Moisture
☐ As	☐ K	☐ Sn	☐ THM/HAA	☐ Ash	☐ % Carbon	☐ Color
☐ B	☐ Li	☐ Sr	☐ VOC	☐ Sulfur	☐ Mineral	☐ Acidity
☐ Ba	☐ Mg	☐ Ti	☐ Oil & Grease	☐ BTUs	Analysis	Dielectric Strength
☐ Be	☐ Mn	☐ Tl	☐ E. Coli	☐ Volatile Matter	☐ Sieve	IFT
☐ Ca	☐ Mo	☐ V	☐ Total Coliform	☐ CHN	☐ % Moisture	Dissolved Gases
☐ Cd	☐ Na	☐ Zn	☐ pH	Other Tests:		
☐ Co	☐ Ni	☐ Hg	☐ Dissolved As	☐ XRF Scan	NPDES	Used Oil
☐ Cr	☐ Pb	☐ CrVI	☐ Dissolved Fe	☐ HGI	☐ Oil & Grease	Flashpoint
			☐ Rad 226	☐ Fineness	☐ As	Metals in oil
			☐ Rad 228	☐ Chlorides	☐ TSS	(As, Cd, Cr, Ni, Pb,
			☐ PCB	☐ Particle Size		Hg)
				☐ Sulfur		TX
						GOFER

Matrix codes. GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, OIl-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody

RUSH!!



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia

@santeecoop.com

/ /

125915 / JMD2.08.G01.3 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments		
AF36861	CAP - 1	6/22	1253	DEW ML	1	P	G	GW	2	6020 RL=5 PPB	X	S
63	3	6/23	1608	L								
64	4		1449	DEW DJ								
65	5		1327									
66	6		1215									
67	7		1116									
68	8		1005	L								
69	9	6/22	1540	DEW ML								
70	9 - DUP		1545	L								
71	10		1445	L	-	-	-	-	-			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SGBrown	35594	9/6/22	1500	DR	TA	9-7-22	103d
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

<input type="checkbox"/> METALS (all)		Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	Trans. Oil Qual., %Moisture
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	Color
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	Acidity
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> TCC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	Dielectric Strength
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	IFT
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	Dissolved Gases
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	Used Oil
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> NPDES	Flashpoint
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Metals in oil	Metals in oil
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 226	<input type="checkbox"/> HGI	<input type="checkbox"/> As	(As, Cd, Cr, Ni, Pb, Hg)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> pH	<input type="checkbox"/> Fineness	TX
				<input type="checkbox"/> PCB	<input type="checkbox"/> Chlorides	<input type="checkbox"/> Particulate Matter	GOFER
					<input type="checkbox"/> Particle Size	<input type="checkbox"/> Sulfur	

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody

RUSHY

 **santee cooper**
 Santee Cooper
 One Riverwood Drive
 Moncks Corner SC 29461
 Phone (843)761-8000 Ext. 5148
 Fax (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecoopera.com

1 / 1

125915 / JM02.08.G01.3 / 36500

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
89m-wan	35594	9/6/22	1500	DH	M	9-7-22	103d
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ **Initial:** _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/init for preservative:

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M misc (describe in comment section)
 Preservative code 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-220687-1

Login Number: 220687

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-220687-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

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

Eurofins Savannah



Environment Testing
America



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-220771-1
Client Project/Site: 125915/JM02.08.G013/36500

For:
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by:
9/14/2022 6:13:48 PM
Jerry Lanier, Project Manager I
(912)250-0281
Jerry.Lanier@et.eurofinsus.com

LINKS

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results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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

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Case Narrative

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Job ID: 680-220771-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-220771-1

Receipt

The sample was received on 9/8/2022 10:30 AM. 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 26.6°C

Metals

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

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-220771-1	AF36885	Water	06/29/22 09:30	09/08/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
3010A	Preparation, Total Metals	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

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.
z	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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Client Sample ID: AF36885

Lab Sample ID: 680-220771-1

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Client Sample ID: AF36885

Lab Sample ID: 680-220771-1

Matrix: Water

Date Collected: 06/29/22 09:30
Date Received: 09/08/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/12/22 10:54	09/14/22 15:58	1

QC Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-739859/1-A

Matrix: Water

Analysis Batch: 740395

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 739859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		09/12/22 10:54	09/14/22 15:31	1

Lab Sample ID: LCS 680-739859/2-A

Matrix: Water

Analysis Batch: 740395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 739859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	52.30		ug/L		105	80 - 120

QC Association Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Metals

Prep Batch: 739859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220771-1	AF36885	Total/NA	Water	3010A	
MB 680-739859/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-739859/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 740395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220771-1	AF36885	Total/NA	Water	6020B	739859
MB 680-739859/1-A	Method Blank	Total/NA	Water	6020B	739859
LCS 680-739859/2-A	Lab Control Sample	Total/NA	Water	6020B	739859

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Client Sample ID: AF36885

Date Collected: 06/29/22 09:30

Lab Sample ID: 680-220771-1

Date Received: 09/08/22 10:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			739859	RR	EET SAV	09/12/22 10:54
Total/NA	Analysis	6020B		1	740395	BWR	EET SAV	09/14/22 15:58

Laboratory References:

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

Chain of Custody

RUSH!

santee cooper
 Santee Cooper
 One Riverwood Drive
 Moncks Corner SC 29461
 Phone (843)761-8000 Ext 5148
 Fax (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

[@santecognac.com](http://santecognac.com)

1 / 1

125915 / JM62.08.G01 3/ 36500

Yes No

Analysis Group



680-220771 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: CJ

Correct pH: Yes No 9.8/22

Preservative Lot#: 1030

26.7/26.6

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, OIl-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-220771-1

Login Number: 220771

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G013/36500

Job ID: 680-220771-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

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



November 07, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 598717

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 28, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for
Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 598717 GEL Work Order: 598717

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by _____

Heather Millar

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47633	Project:	SOOP00119
Sample ID:	598717001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 09:27		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.16	+/-1.22	1.84	3.00	pCi/L			JE1	11/04/22	1016	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.90	+/-1.26			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.738	+/-0.348	0.371	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			91	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47632	Project:	SOOP00119
Sample ID:	598717002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 10:34		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.88	+/-1.26	1.97	3.00	pCi/L			JE1	11/04/22	1016	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.51	+/-1.30			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.630	+/-0.337	0.438	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47651	Project:	SOOP00119
Sample ID:	598717003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 11:40		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.02	+/-1.51	2.09	3.00	pCi/L			JE1	11/04/22	1016	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.17	+/-1.61			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.15	+/-0.554	0.407	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47650	Project:	SOOP00119
Sample ID:	598717004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 12:46		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.03	+/-1.68	2.59	3.00	pCi/L			JE1	11/04/22	1016	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.77	+/-1.73			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.738	+/-0.405	0.542	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47649	Project:	SOOP00119
Sample ID:	598717005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 14:11		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		6.11	+/-1.69	2.15	3.00	pCi/L			JE1	11/07/22	0917	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.68	+/-1.72			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.568	+/-0.305	0.368	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47647	Project:	SOOP00119
Sample ID:	598717006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 15:16		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.41	+/-2.08	2.96	3.00	pCi/L			JE1	11/04/22	1405	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.12	+/-2.11			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.708	+/-0.355	0.458	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.2	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47648	Project:	SOOP00119
Sample ID:	598717007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-OCT-22 15:21		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.69	+/-1.59	2.32	3.00	pCi/L			JE1	11/04/22	1017	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.35	+/-1.63			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.665	+/-0.368	0.478	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47652	Project:	SOOP00119
Sample ID:	598717008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 09:24		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.67	+/-1.48	1.87	3.00	pCi/L			JE1	11/07/22	0917	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.04	+/-1.54			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.38	+/-0.421	0.405	1.00	pCi/L			LXP1	11/06/22	0725	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Project: ABS Lab Analytical

Client Sample ID:	AF47646	Project:	SOOP00119
Sample ID:	598717009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 10:30		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.13	+/-1.17	1.74	3.00	pCi/L			JE1	11/04/22	1017	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.53	+/-1.25			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.40	+/-0.452	0.368	1.00	pCi/L			LXP1	11/06/22	0756	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47621	Project:	SOOP00119
Sample ID:	598717010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 11:47		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.62	+/-1.56	2.42	3.00	pCi/L			JE1	11/04/22	1017	2335631	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.01	+/-1.57			pCi/L			NXL1	11/07/22	1238	2335629	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.391	+/-0.219	0.214	1.00	pCi/L			LXP1	11/06/22	0756	2335609	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47630	Project:	SOOP00119
Sample ID:	598717011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 12:58		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	2.19	+/-1.76	2.86	3.00	pCi/L			JE1	11/04/22	1403	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.09	+/-1.79			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.898	+/-0.350	0.365	1.00	pCi/L			LXP1	11/06/22	0756	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47628	Project:	SOOP00119
Sample ID:	598717012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 14:05		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.81	+/-1.65	2.05	3.00	pCi/L			JE1	11/04/22	1403	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.64	+/-1.69			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.832	+/-0.375	0.409	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47629	Project:	SOOP00119
Sample ID:	598717013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 14:10		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.75	+/-1.55	2.02	3.00	pCi/L			JE1	11/04/22	1134	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.27	+/-1.58			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.518	+/-0.287	0.354	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47627	Project:	SOOP00119
Sample ID:	598717014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-OCT-22 15:32		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.74	+/-1.32	1.93	3.00	pCi/L			JE1	11/04/22	1134	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.76	+/-1.37			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.02	+/-0.366	0.245	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47626	Project:	SOOP00119
Sample ID:	598717015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 09:41		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.92	+/-1.69	2.35	3.00	pCi/L			JE1	11/04/22	1134	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.18	+/-1.74			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.26	+/-0.423	0.319	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47625	Project:	SOOP00119
Sample ID:	598717016	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 11:01		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.32	+/-1.27	1.88	3.00	pCi/L			JE1	11/04/22	1134	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.90	+/-1.33			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.58	+/-0.422	0.217	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47624	Project:	SOOP00119
Sample ID:	598717017	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 12:15		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		12.9	+/-1.93	1.55	3.00	pCi/L			JE1	11/07/22	0919	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		19.4	+/-2.11			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		6.45	+/-0.837	0.305	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47623	Project:	SOOP00119
Sample ID:	598717018	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 13:24		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.92	+/-1.23	1.88	3.00	pCi/L			JE1	11/04/22	1135	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.56	+/-1.27			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.641	+/-0.344	0.430	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47622	Project:	SOOP00119
Sample ID:	598717019	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 14:46		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.51	+/-1.34	2.16	3.00	pCi/L			JE1	11/04/22	1404	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.29	+/-1.38			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.777	+/-0.335	0.372	1.00	pCi/L			LXP1	11/06/22	0830	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47659	Project:	SOOP00119
Sample ID:	598717020	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 15:56		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.00	+/-1.29	1.84	3.00	pCi/L			JE1	11/04/22	1135	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.08	+/-1.35			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.09	+/-0.380	0.297	1.00	pCi/L			LXP1	11/06/22	0902	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 7, 2022

Company : Santee Cooper
 Address : P.O. Box 2946101
 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF47660	Project:	SOOP00119
Sample ID:	598717021	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-OCT-22 16:01		
Receive Date:	28-OCT-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.29	+/-1.46	2.15	3.00	pCi/L			JE1	11/04/22	1135	2335632	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.74	+/-1.49			pCi/L			NXL1	11/07/22	1237	2335630	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.443	+/-0.277	0.371	1.00	pCi/L			LXP1	11/06/22	0902	2335610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: November 7, 2022

Page 1 of 3

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 598717

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2335631										
Radium-228	QC1205230990	598717001	DUP								
				Uncertainty	2.16 +/-1.22	2.10 +/-1.09	pCi/L	3	(0% - 100%)	JE1	11/04/22 10:40
Radium-228	QC1205230991	LCS									
				Uncertainty	65.4 +/-3.79	50.4	pCi/L	77.1	(75%-125%)		11/04/22 10:40
Radium-228	QC1205230989	MB									
				Uncertainty	U +/-1.03	0.227	pCi/L				11/04/22 10:40
Batch	2335632										
Radium-228	QC1205230993	598717011	DUP								
				Uncertainty	U +/-1.76	2.19 +/-1.00	pCi/L	N/A	N/A	JE1	11/04/22 11:34
Radium-228	QC1205230994	LCS									
				Uncertainty	65.6 +/-3.95	63.1	pCi/L	96.3	(75%-125%)		11/04/22 11:34
Radium-228	QC1205230992	MB									
				Uncertainty	U +/-1.43	0.0260	pCi/L				11/04/22 14:03
Rad Ra-226											
Batch	2335609										
Radium-226	QC1205230921	598717001	DUP								
				Uncertainty	0.738 +/-0.348	1.13 +/-0.386	pCi/L	42.2	(0% - 100%)	LXP1	11/06/22 07:56
Radium-226	QC1205230923	LCS									
				Uncertainty	26.6 +/-1.64	22.3	pCi/L	83.9	(75%-125%)		11/06/22 07:56
Radium-226	QC1205230920	MB									
				Uncertainty	U +/-0.308	0.437	pCi/L				11/06/22 07:56

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QC Summary

Workorder: **598717**

Page **2 of 3**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Ra-226											
Batch	2335609										
	QC1205230922	598717001	MS								
Radium-226		130		0.738		135		pCi/L		103	(75%-125%)
		Uncertainty		+/-0.348		+/-8.59					
Batch	2335610										
	QC1205230925	598717011	DUP								
Radium-226				0.898		0.779		pCi/L		14.2	(0% - 100%)
		Uncertainty		+/-0.350		+/-0.392					
	QC1205230927	LCS									
Radium-226		26.5				21.3		pCi/L		80.1	(75%-125%)
		Uncertainty				+/-1.54					
	QC1205230928	LCSD									
Radium-226		26.5				25.1		pCi/L		16.6	(0%-20%)
		Uncertainty				+/-1.80					
	QC1205230924	MB									
Radium-226				U		0.304		pCi/L			
		Uncertainty				+/-0.292					
	QC1205230926	598717011	MS								
Radium-226		131		0.898		116		pCi/L		88.1	(75%-125%)
		Uncertainty		+/-0.350		+/-8.03					

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.

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QC Summary

Workorder: 598717

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

[^]The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 598717

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2335631

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
598717001	AF47633
598717002	AF47632
598717003	AF47651
598717004	AF47650
598717005	AF47649
598717006	AF47647
598717007	AF47648
598717008	AF47652
598717009	AF47646
598717010	AF47621
1205230989	Method Blank (MB)
1205230990	598717001(AF47633) Sample Duplicate (DUP)
1205230991	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Sample 598717006 (AF47647) was recounted to verify sample results. Recount is reported. Samples 598717005 (AF47649) and 598717008 (AF47652) were re-eluted and recounted to verify sample results. The recounts are reported.

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2335632

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
598717011	AF47630
598717012	AF47628
598717013	AF47629
598717014	AF47627
598717015	AF47626
598717016	AF47625
598717017	AF47624
598717018	AF47623
598717019	AF47622
598717020	AF47659
598717021	AF47660
1205230992	Method Blank (MB)
1205230993	598717011(AF47630) Sample Duplicate (DUP)
1205230994	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Sample 1205230992 (MB) was recounted due to a suspected blank false positive. The recount is reported. Samples 598717011 (AF47630), 598717012 (AF47628) and 598717019 (AF47622) were recounted due to a suspected false positive. The recounts are reported. Sample 598717017 (AF47624) was re-eluted and recounted to verify sample result. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2335609

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
598717001	AF47633
598717002	AF47632
598717003	AF47651
598717004	AF47650
598717005	AF47649
598717006	AF47647
598717007	AF47648
598717008	AF47652
598717009	AF47646
598717010	AF47621

1205230920	Method Blank (MB)
1205230921	598717001(AF47633) Sample Duplicate (DUP)
1205230922	598717001(AF47633) Matrix Spike (MS)
1205230923	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205230922 (AF47633MS), aliquot was reduced to conserve sample volume.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2335610

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
598717011	AF47630
598717012	AF47628
598717013	AF47629
598717014	AF47627
598717015	AF47626
598717016	AF47625
598717017	AF47624
598717018	AF47623
598717019	AF47622
598717020	AF47659
598717021	AF47660
1205230924	Method Blank (MB)
1205230925	598717011(AF47630) Sample Duplicate (DUP)
1205230926	598717011(AF47630) Matrix Spike (MS)
1205230927	Laboratory Control Sample (LCS)
1205230928	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1205230926 (AF47630MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 11 / 7 / 22

Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

598717

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA WILLIAMS @santeecooper.com

125915 / JM02.09.GP1.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	SULFIDE	TOC / DOC	TOTAL RAD GPC	TOTAL RAD 226/228	FLAKY/UNI TOTAL, SICARD, CARB	NO3-N/NO2
AF47633	PM -1	10/25/22	0927	WJK ML	7	F+ G	G	GW	Y	SULFIDE NaOH TOC H2SO4	1	2	2	1	1	
AF47632	CBW -1		1034							RAD HNO3 NO3 NO2 H2SO4						
AF47651	CGYP -6		1140													
AF47650	CGYP -4		1246													
AF47649	CGYP -3		1411							* PLEASE NOTE SHORT HOLD FOR SULFIDE.						
AF47647	CGYP -2		1516													
AF47648	CGYP -2. DUP		1521							* PLEASE FILTER AND PRESERVE DOC SAMPLES.						

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
	35466	10/28/22	1000		GEL	10/28/22	1000
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
		10/28/22	1430			10/28/22	1430

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

□ METALS (all)	Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Orla
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> % Moisture	<input type="checkbox"/> TOL	<input type="checkbox"/> % Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TP04	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> BTUs	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> C	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dissolve Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> NO2	<input type="checkbox"/> CHN	<input type="checkbox"/> Sulfate	<input type="checkbox"/> IFT
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> Br	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Dissolved Gas
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> NO3	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> SO4	<input type="checkbox"/> HGI	<input type="checkbox"/> Metals in oil	<input type="checkbox"/> Metals in oil
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> Fineness	<input type="checkbox"/> NPDSE	<input type="checkbox"/> (As/Cd/Cu/Ni/Pb/Hg)
				<input type="checkbox"/> Particle Size	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> GOFER
				<input type="checkbox"/> Sulfur	<input type="checkbox"/> Ash	

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=H2O2 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA WILLIAMS @santeepaper.com

— 1 —

1259/5 / JM02.09.681-1 / 36508

Yes No

10

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>Reed</i>	35466	10/28/22	1600	<i>JL</i>	GEL	10/28/22	1600
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>JL</i>	GEL	10/28/22	1430	<i>JLR</i>		10/28/22	1430

<input type="checkbox"/> METALS (all)	<input type="checkbox"/> Nutrients	<input type="checkbox"/> MISC.	<input type="checkbox"/> Gypsum	<input type="checkbox"/> Coal	<input type="checkbox"/> Flyash	<input type="checkbox"/> Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonium	<input type="checkbox"/> TransOilQual
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> Gypsum (all)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Nitrogen	<input type="checkbox"/> Multi-Phase
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TOC	<input type="checkbox"/> Ash	<input type="checkbox"/> Chloride	<input type="checkbox"/> HgColor
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> DOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Cation	<input type="checkbox"/> Multi-Phase
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> NH3-N	<input type="checkbox"/> Btu's	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidinity
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> DPA	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dissolve/Solvent
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> GL	<input type="checkbox"/> CHN	<input type="checkbox"/> Stevo	<input type="checkbox"/> DSC/DTG
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> NO2	<input type="checkbox"/> Gypsum	<input type="checkbox"/> VO Moisture	<input type="checkbox"/> UsedOil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> Br	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> Flashpoint	<input type="checkbox"/> Multi-Phase
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> NO3	<input type="checkbox"/> XRF-Scan	<input type="checkbox"/> Mortar	<input type="checkbox"/> ASCHERIPD
			<input type="checkbox"/> SO4	<input type="checkbox"/> HGI	<input type="checkbox"/> Particulate Size	<input type="checkbox"/> TX
			<input type="checkbox"/> PCB	<input type="checkbox"/> Rad 226	<input type="checkbox"/> Sulfur	<input type="checkbox"/> GOMTR
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particulate Matter	
				<input type="checkbox"/> PCB	<input type="checkbox"/> SS	

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Page 32 of 35 SDG: 598717

Chain of Custody

 **santee cooper***

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA WILLIAMS @santeecouper.com

$$t_1 = t$$

125915 47M23 09 601 14 365081

— 10 —

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>hrt</i>	35466	10/23/22	1000	<i>JHR</i>	<i>GEL</i>	10/23/22	1000
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>JHR</i>	611	10/28/22	1430	<i>JTR</i>		10/28/22	1430
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Crude Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum (II below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Nitrogen	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> DTPA/TP04	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Ash	<input type="checkbox"/> Calcium	<input type="checkbox"/> % Moisture
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> % Sulfur	<input type="checkbox"/> % Sulfur	<input type="checkbox"/> % Carbon	<input type="checkbox"/> % Ash
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> P	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTU	<input type="checkbox"/> Mineral	<input type="checkbox"/> % Volatile Matter
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Insoluble Metals	<input type="checkbox"/> % Vol. Matter	<input type="checkbox"/> Analysis	<input type="checkbox"/> % Fixed Carbon
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Impurity (CaSO4)	<input type="checkbox"/> % CHN	<input type="checkbox"/> % Coke	<input type="checkbox"/> % Sulfur
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % C	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Residue
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> % Sulfides	<input type="checkbox"/> % O	<input type="checkbox"/> % Ash	<input type="checkbox"/> % Crude Oil
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> % Chlorides	<input type="checkbox"/> % Particulate Sulfur	<input type="checkbox"/> % Sulfur	<input type="checkbox"/> % Residue
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Article 3120	<input type="checkbox"/> % Particulate Matter	<input type="checkbox"/> % Sulfur	<input type="checkbox"/> % Metal Content
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfur		<input type="checkbox"/> % Ash	<input type="checkbox"/> % Metal Content
				<input type="checkbox"/> PCB			<input type="checkbox"/> % Sulfur	<input type="checkbox"/> % Metal Content



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/CO/COC/Work Order: 598717										
Received By: Stacy Boone	Date Received: 10/28/22										
Carrier and Tracking Number 21c 17c 1c 1c											
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/> Yes</td> <td style="width: 10%;"><input type="checkbox"/> No</td> <td style="width: 80%;">Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other</td> </tr> </table>		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other							
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other									
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/> Suspected Hazard Information</td> <td style="width: 10%;"><input type="checkbox"/> Yes</td> <td style="width: 10%;"><input type="checkbox"/> No</td> <td colspan="4" style="width: 60%;">*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.</td> </tr> </table>		<input checked="" type="checkbox"/> Suspected Hazard Information	<input type="checkbox"/> Yes	<input type="checkbox"/> No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.						
<input checked="" type="checkbox"/> Suspected Hazard Information	<input type="checkbox"/> Yes	<input type="checkbox"/> No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.								
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/> A) Shipped as a DOT Hazardous?</td> <td style="width: 10%;"><input type="checkbox"/> B) Did the client designate the samples are to be received as radioactive?</td> <td style="width: 10%;"><input checked="" type="checkbox"/> C) Did the RSO classify the samples as radioactive?</td> <td style="width: 10%;"><input checked="" type="checkbox"/> D) Did the client designate samples are hazardous?</td> <td style="width: 10%;"><input checked="" type="checkbox"/> E) Did the RSO identify possible hazards?</td> <td colspan="4" style="width: 40%;"> Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation. Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 80 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3 COC notation or hazard labels on containers equal client designation. If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: </td> </tr> </table>		<input checked="" type="checkbox"/> A) Shipped as a DOT Hazardous?	<input type="checkbox"/> B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/> C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/> D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/> E) Did the RSO identify possible hazards?	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation. Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 80 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3 COC notation or hazard labels on containers equal client designation. If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:				
<input checked="" type="checkbox"/> A) Shipped as a DOT Hazardous?	<input type="checkbox"/> B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/> C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/> D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/> E) Did the RSO identify possible hazards?	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation. Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 80 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3 COC notation or hazard labels on containers equal client designation. If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:						
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/> 1 Shipping containers received intact and sealed?</td> <td style="width: 10%;"><input type="checkbox"/> 2 Chain of custody documents included with shipment?</td> <td style="width: 10%;"><input checked="" type="checkbox"/> 3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*</td> <td style="width: 10%;"><input checked="" type="checkbox"/> 4 Daily check performed and passed on IR temperature gun?</td> <td style="width: 10%;"><input checked="" type="checkbox"/> 5 Sample containers intact and sealed?</td> <td style="width: 10%;"><input checked="" type="checkbox"/> 6 Samples requiring chemical preservation at proper pH?</td> <td colspan="4" style="width: 40%;"> Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Circle Applicable: Client contacted and provided COC COC created upon receipt Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____ Temperature Device Serial #: JR4-22 Secondary Temperature Device Serial # (If Applicable): Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Sample ID's and Containers Affected: If Preservation added, Lot#: If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected: ID's and tests affected: ID's and containers affected: Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) Circle Applicable: No container count on COC Other (describe) Circle Applicable: Not relinquished Other (describe) </td> </tr> </table>		<input checked="" type="checkbox"/> 1 Shipping containers received intact and sealed?	<input type="checkbox"/> 2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/> 3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/> 4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/> 5 Sample containers intact and sealed?	<input checked="" type="checkbox"/> 6 Samples requiring chemical preservation at proper pH?	Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Circle Applicable: Client contacted and provided COC COC created upon receipt Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____ Temperature Device Serial #: JR4-22 Secondary Temperature Device Serial # (If Applicable): Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Sample ID's and Containers Affected: If Preservation added, Lot#: If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected: ID's and tests affected: ID's and containers affected: Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) Circle Applicable: No container count on COC Other (describe) Circle Applicable: Not relinquished Other (describe)			
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Comments (Use Continuation Form if needed): <div style="text-align: right; margin-right: 10px;"><i>[Signature]</i></div> <div style="display: flex; justify-content: space-between;"> PM (or PMA) review: Initials JRW Date 10/28/22 Page 1 of 1 </div>											

List of current GEL Certifications as of 07 November 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ANALYTICAL REPORT

PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner South Carolina 29461-2901

Generated 11/22/2022 6:01:28 PM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

680-224844-1

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Case Narrative

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Job ID: 680-224844-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-224844-1

Receipt

The samples were received on 11/5/2022 11:38 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 20.6°C

Metals

Method 6020A: preparation batch 160-589629 and 160-589630 and analytical batch 160-590226 The following samples were diluted to bring the concentration of target analytes within the calibration range: AF47627 (680-224844-14), AF47626 (680-224844-15) and AF47658 (680-224844-34). Elevated reporting limits (RLs) are provided.

Method 6020B: preparation batch 160-589627 Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: AF47633 (680-224844-1), AF47632 (680-224844-2), AF47628 (680-224844-12), (680-224844-A-2 MS) and (680-224844-A-2 MSD).

Method 6020B: preparation batch 160-589628 Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: AF47660 (680-224844-21), AF47635 (680-224844-24), (680-224844-A-24 MS) and (680-224844-A-24 MSD).

Method 6020B: preparation batch 160-589629 Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: AF47654 (680-224844-41).

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

Sample Summary

Client: South Carolina Public Service Authority

Job ID: 680-224844-1

Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-224844-1	AF47633	Water	10/25/22 09:27	11/05/22 11:38
680-224844-2	AF47632	Water	10/25/22 10:34	11/05/22 11:38
680-224844-3	AF47651	Water	10/25/22 11:10	11/05/22 11:38
680-224844-4	AF47650	Water	10/25/22 12:46	11/05/22 11:38
680-224844-5	AF47649	Water	10/25/22 14:11	11/05/22 11:38
680-224844-6	AF47647	Water	10/25/22 15:16	11/05/22 11:38
680-224844-7	AF47648	Water	10/25/22 15:21	11/05/22 11:38
680-224844-8	AF47652	Water	10/26/22 09:24	11/05/22 11:38
680-224844-9	AF47646	Water	10/26/22 10:30	11/05/22 11:38
680-224844-10	AF47621	Water	10/26/22 11:47	11/05/22 11:38
680-224844-11	AF47630	Water	10/26/22 12:58	11/05/22 11:38
680-224844-12	AF47628	Water	10/26/22 14:05	11/05/22 11:38
680-224844-13	AF47629	Water	10/26/22 14:10	11/05/22 11:38
680-224844-14	AF47627	Water	10/26/22 15:32	11/05/22 11:38
680-224844-15	AF47626	Water	10/27/22 09:41	11/05/22 11:38
680-224844-16	AF47625	Water	10/27/22 11:01	11/05/22 11:38
680-224844-17	AF47624	Water	10/27/22 12:15	11/05/22 11:38
680-224844-18	AF47623	Water	10/27/22 13:24	11/05/22 11:38
680-224844-19	AF47622	Water	10/27/22 14:46	11/05/22 11:38
680-224844-20	AF47659	Water	10/27/22 15:56	11/05/22 11:38
680-224844-21	AF47660	Water	10/27/22 16:01	11/05/22 11:38
680-224844-22	AF47661	Water	10/31/22 10:13	11/05/22 11:38
680-224844-23	AF47634	Water	10/31/22 11:27	11/05/22 11:38
680-224844-24	AF47635	Water	10/31/22 11:32	11/05/22 11:38
680-224844-25	AF47636	Water	10/31/22 12:40	11/05/22 11:38
680-224844-26	AF47637	Water	10/31/22 13:42	11/05/22 11:38
680-224844-27	AF47638	Water	10/31/22 14:32	11/05/22 11:38
680-224844-28	AF47643	Water	11/02/22 09:42	11/05/22 11:38
680-224844-29	AF47644	Water	11/02/22 09:47	11/05/22 11:38
680-224844-30	AF47631	Water	11/02/22 11:02	11/05/22 11:38
680-224844-31	AF47655	Water	11/02/22 12:32	11/05/22 11:38
680-224844-32	AF47662	Water	11/02/22 13:51	11/05/22 11:38
680-224844-33	AF47663	Water	11/02/22 14:52	11/05/22 11:38
680-224844-34	AF47658	Water	11/02/22 16:00	11/05/22 11:38
680-224844-35	AF47639	Water	11/01/22 10:13	11/05/22 11:38
680-224844-36	AF47645	Water	11/01/22 11:29	11/05/22 11:38
680-224844-37	AF47641	Water	11/01/22 12:28	11/05/22 11:38
680-224844-38	AF47642	Water	11/01/22 14:06	11/05/22 11:38
680-224844-39	AF47640	Water	11/01/22 15:15	11/05/22 11:38
680-224844-40	AF47653	Water	11/03/22 10:03	11/05/22 11:38
680-224844-41	AF47654	Water	11/03/22 11:04	11/05/22 11:38
680-224844-42	AF47657	Water	11/03/22 12:20	11/05/22 11:38
680-224844-43	AF47664	Water	11/03/22 13:44	11/05/22 11:38
680-224844-44	AF47656	Water	11/03/22 14:49	11/05/22 11:38

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020A	Metals (ICP/MS)	SW846	EET SL
6020B	Metals (ICP/MS)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SL
3010A	Preparation, Total Metals	SW846	EET SL

Protocol References:

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

Laboratory References:

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

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Qualifiers

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.

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

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47633

Lab Sample ID: 680-224844-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	13100		500		ug/L	1		6010D	Total Recoverable
Iron	10900		100		ug/L	1		6010D	Total Recoverable
Magnesium	647		500		ug/L	1		6010D	Total Recoverable
Sodium	5680		2000		ug/L	1		6010D	Total Recoverable
Cobalt	3.42		2.00		ug/L	2		6020A	Dissolved
Manganese	13.0		5.00		ug/L	2		6020A	Dissolved
Lithium	6.06		5.00		ug/L	2		6020A	Dissolved
Iron	10900		50.0		ug/L	2		6020A	Dissolved
Barium	85.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.89		0.500		ug/L	1		6020B	Total Recoverable
Manganese	12.9		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47632

Lab Sample ID: 680-224844-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	27500		500		ug/L	1		6010D	Total Recoverable
Magnesium	1820		500		ug/L	1		6010D	Total Recoverable
Sodium	5740		2000		ug/L	1		6010D	Total Recoverable
Manganese	12.9		5.00		ug/L	2		6020A	Dissolved
Iron	264		50.0		ug/L	2		6020A	Dissolved
Barium	46.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.625		0.500		ug/L	1		6020B	Total Recoverable
Lead	3.20		2.50		ug/L	1		6020B	Total Recoverable
Manganese	14.5		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47651

Lab Sample ID: 680-224844-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	370000		500		ug/L	1		6010D	Total Recoverable
Iron	30400		100		ug/L	1		6010D	Total Recoverable
Magnesium	13100		500		ug/L	1		6010D	Total Recoverable
Potassium	1830		1000		ug/L	1		6010D	Total Recoverable
Sodium	87000		2000		ug/L	1		6010D	Total Recoverable
Beryllium	24.8		0.500		ug/L	2		6020A	Dissolved
Cobalt	133		2.00		ug/L	2		6020A	Dissolved
Manganese	140		5.00		ug/L	2		6020A	Dissolved
Lithium	106		5.00		ug/L	2		6020A	Dissolved
Iron	33500		50.0		ug/L	2		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47651 (Continued)

Lab Sample ID: 680-224844-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	465		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	27.0		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	0.580		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	156		0.500		ug/L	1		6020B	Total Recoverable
Lead	2.85		2.50		ug/L	1		6020B	Total Recoverable
Manganese	162		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47650

Lab Sample ID: 680-224844-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	231000		500		ug/L	1		6010D	Total Recoverable
Iron	81000		100		ug/L	1		6010D	Total Recoverable
Magnesium	12000		500		ug/L	1		6010D	Total Recoverable
Potassium	2460		1000		ug/L	1		6010D	Total Recoverable
Sodium	67700		2000		ug/L	1		6010D	Total Recoverable
Beryllium	16.4		0.500		ug/L	2		6020A	Dissolved
Cobalt	38.1		2.00		ug/L	2		6020A	Dissolved
Manganese	280		5.00		ug/L	2		6020A	Dissolved
Lithium	54.5		5.00		ug/L	2		6020A	Dissolved
Iron	86500		50.0		ug/L	2		6020A	Dissolved
Selenium	8.56		5.00		ug/L	2		6020B	Total/NA
Arsenic	4.10		3.00		ug/L	1		6020B	Total Recoverable
Barium	30.6		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	18.8		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	0.805		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	41.5		0.500		ug/L	1		6020B	Total Recoverable
Lead	13.4		2.50		ug/L	1		6020B	Total Recoverable
Manganese	316		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47649

Lab Sample ID: 680-224844-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	415000		500		ug/L	1		6010D	Total Recoverable
Iron	171000		100		ug/L	1		6010D	Total Recoverable
Magnesium	20600		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47649 (Continued)

Lab Sample ID: 680-224844-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2300		1000		ug/L	1		6010D	Total Recoverable
Sodium	73300		2000		ug/L	1		6010D	Total Recoverable
Beryllium	30.8		0.500		ug/L	2		6020A	Dissolved
Cobalt	82.8		2.00		ug/L	2		6020A	Dissolved
Manganese	411		5.00		ug/L	2		6020A	Dissolved
Lithium	65.1		5.00		ug/L	2		6020A	Dissolved
Iron	192000		50.0		ug/L	2		6020A	Dissolved
Selenium	18.9		5.00		ug/L	2		6020B	Total/NA
Arsenic	6.53		3.00		ug/L	1		6020B	Total Recoverable
Barium	42.2		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	34.5		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	1.87		0.500		ug/L	1		6020B	Total Recoverable
Chromium	8.79		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	95.6		0.500		ug/L	1		6020B	Total Recoverable
Lead	29.8		2.50		ug/L	1		6020B	Total Recoverable
Manganese	471		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47647

Lab Sample ID: 680-224844-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	214000		500		ug/L	1		6010D	Total Recoverable
Iron	63500		100		ug/L	1		6010D	Total Recoverable
Magnesium	18600		500		ug/L	1		6010D	Total Recoverable
Potassium	2350		1000		ug/L	1		6010D	Total Recoverable
Sodium	8250		2000		ug/L	1		6010D	Total Recoverable
Beryllium	3.74		0.500		ug/L	2		6020A	Dissolved
Cobalt	19.4		2.00		ug/L	2		6020A	Dissolved
Manganese	289		5.00		ug/L	2		6020A	Dissolved
Lithium	15.1		5.00		ug/L	2		6020A	Dissolved
Iron	71400		50.0		ug/L	2		6020A	Dissolved
Selenium	27.3		5.00		ug/L	2		6020B	Total/NA
Barium	18.3		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	4.32		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	1.38		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	21.5		0.500		ug/L	1		6020B	Total Recoverable
Lead	25.1		2.50		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47647 (Continued)

Lab Sample ID: 680-224844-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	325		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47648

Lab Sample ID: 680-224844-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	213000		500		ug/L	1		6010D	Total Recoverable
Iron	62800		100		ug/L	1		6010D	Total Recoverable
Magnesium	18600		500		ug/L	1		6010D	Total Recoverable
Potassium	2310		1000		ug/L	1		6010D	Total Recoverable
Sodium	8230		2000		ug/L	1		6010D	Total Recoverable
Beryllium	3.71		0.500		ug/L	2		6020A	Dissolved
Cobalt	18.7		2.00		ug/L	2		6020A	Dissolved
Manganese	284		5.00		ug/L	2		6020A	Dissolved
Lithium	15.3		5.00		ug/L	2		6020A	Dissolved
Iron	68100		50.0		ug/L	2		6020A	Dissolved
Selenium	28.0		5.00		ug/L	2		6020B	Total/NA
Barium	17.8		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	4.00		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	1.72		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	20.4		0.500		ug/L	1		6020B	Total Recoverable
Lead	24.3		2.50		ug/L	1		6020B	Total Recoverable
Manganese	314		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47652

Lab Sample ID: 680-224844-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	320000		500		ug/L	1		6010D	Total Recoverable
Iron	114000		100		ug/L	1		6010D	Total Recoverable
Magnesium	68200		5000		ug/L	10		6010D	Total Recoverable
Potassium	4210		1000		ug/L	1		6010D	Total Recoverable
Sodium	80200		20000		ug/L	10		6010D	Total Recoverable
Beryllium	11.7		0.500		ug/L	2		6020A	Dissolved
Cobalt	68.3		2.00		ug/L	2		6020A	Dissolved
Manganese	885		5.00		ug/L	2		6020A	Dissolved
Lithium	13.7		5.00		ug/L	2		6020A	Dissolved
Iron	141000		50.0		ug/L	2		6020A	Dissolved
Selenium	46.4		5.00		ug/L	2		6020B	Total/NA
Arsenic	6.21		3.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47652 (Continued)

Lab Sample ID: 680-224844-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	28.1		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	11.7		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	3.19		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	79.7		0.500		ug/L	1		6020B	Total Recoverable
Lead	55.1		2.50		ug/L	1		6020B	Total Recoverable
Manganese	1050		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47646

Lab Sample ID: 680-224844-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	193000		500		ug/L	1		6010D	Total Recoverable
Iron	133000		100		ug/L	1		6010D	Total Recoverable
Magnesium	43000		500		ug/L	1		6010D	Total Recoverable
Potassium	3850		1000		ug/L	1		6010D	Total Recoverable
Sodium	57000		2000		ug/L	1		6010D	Total Recoverable
Beryllium	9.82		0.500		ug/L	2		6020A	Dissolved
Cobalt	43.6		2.00		ug/L	2		6020A	Dissolved
Manganese	391		5.00		ug/L	2		6020A	Dissolved
Lithium	21.0		5.00		ug/L	2		6020A	Dissolved
Iron	162000		50.0		ug/L	2		6020A	Dissolved
Selenium	26.5		5.00		ug/L	2		6020B	Total/NA
Arsenic	4.72		3.00		ug/L	1		6020B	Total Recoverable
Barium	46.9		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	11.2		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	2.20		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	52.3		0.500		ug/L	1		6020B	Total Recoverable
Lead	8.88		2.50		ug/L	1		6020B	Total Recoverable
Manganese	468		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47621

Lab Sample ID: 680-224844-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	181000		500		ug/L	1		6010D	Total Recoverable
Iron	54800		100		ug/L	1		6010D	Total Recoverable
Magnesium	6720		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47621 (Continued)

Lab Sample ID: 680-224844-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	44600		2000		ug/L	1		6010D	Total Recoverable
Beryllium	3.78		0.500		ug/L	2		6020A	Dissolved
Cobalt	14.7		2.00		ug/L	2		6020A	Dissolved
Manganese	196		5.00		ug/L	2		6020A	Dissolved
Lithium	63.3		5.00		ug/L	2		6020A	Dissolved
Iron	55600		50.0		ug/L	2		6020A	Dissolved
Barium	46.7		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	5.21		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	15.3		0.500		ug/L	1		6020B	Total Recoverable
Manganese	141		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47630

Lab Sample ID: 680-224844-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	85200		500		ug/L	1		6010D	Total Recoverable
Iron	2230		100		ug/L	1		6010D	Total Recoverable
Magnesium	1860		500		ug/L	1		6010D	Total Recoverable
Sodium	12400		2000		ug/L	1		6010D	Total Recoverable
Manganese	58.1		5.00		ug/L	2		6020A	Dissolved
Lithium	5.79		5.00		ug/L	2		6020A	Dissolved
Iron	1870		50.0		ug/L	2		6020A	Dissolved
Barium	94.8		5.00		ug/L	1		6020B	Total Recoverable
Manganese	56.2		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47628

Lab Sample ID: 680-224844-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	486000		500		ug/L	1		6010D	Total Recoverable
Iron	94300		100		ug/L	1		6010D	Total Recoverable
Magnesium	52700		500		ug/L	1		6010D	Total Recoverable
Potassium	6890		1000		ug/L	1		6010D	Total Recoverable
Sodium	133000		2000		ug/L	1		6010D	Total Recoverable
Beryllium	19.6		0.500		ug/L	2		6020A	Dissolved
Cobalt	40.6		2.00		ug/L	2		6020A	Dissolved
Manganese	1010		5.00		ug/L	2		6020A	Dissolved
Lithium	59.8		5.00		ug/L	2		6020A	Dissolved
Iron	98800		50.0		ug/L	2		6020A	Dissolved
Selenium	14.4		10.0		ug/L	2		6020B	Total/NA
Barium	41.2		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47628 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-12			Prep Type
						Dil Fac	D	Method	
Beryllium	24.5		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	1.47		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	50.1		0.500		ug/L	1		6020B	Total Recoverable
Lead	18.7		2.50		ug/L	1		6020B	Total Recoverable
Manganese	1260		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47629

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-13			Prep Type
						Dil Fac	D	Method	
Calcium	483000		500		ug/L	1		6010D	Total Recoverable
Iron	93200		100		ug/L	1		6010D	Total Recoverable
Magnesium	52400		500		ug/L	1		6010D	Total Recoverable
Potassium	6810		1000		ug/L	1		6010D	Total Recoverable
Sodium	133000		2000		ug/L	1		6010D	Total Recoverable
Beryllium	20.2		0.500		ug/L	2		6020A	Dissolved
Cobalt	41.7		2.00		ug/L	2		6020A	Dissolved
Manganese	1040		5.00		ug/L	2		6020A	Dissolved
Lithium	63.1		5.00		ug/L	2		6020A	Dissolved
Iron	102000		50.0		ug/L	2		6020A	Dissolved
Selenium	13.8		5.00		ug/L	2		6020B	Total/NA
Barium	40.2		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	23.6		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	1.58		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	47.3		0.500		ug/L	1		6020B	Total Recoverable
Lead	17.7		2.50		ug/L	1		6020B	Total Recoverable
Manganese	1180		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47627

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-14			Prep Type
						Dil Fac	D	Method	
Calcium	1120000		5000		ug/L	10		6010D	Total Recoverable
Iron	10200		100		ug/L	1		6010D	Total Recoverable
Magnesium	143000		500		ug/L	1		6010D	Total Recoverable
Potassium	10400		1000		ug/L	1		6010D	Total Recoverable
Sodium	183000		2000		ug/L	1		6010D	Total Recoverable
Cobalt	37.0		2.00		ug/L	2		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47627 (Continued)

Lab Sample ID: 680-224844-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	5130		12.5		ug/L		5	6020A	Dissolved
Lithium	50.7		5.00		ug/L		2	6020A	Dissolved
Iron	12300		50.0		ug/L		2	6020A	Dissolved
Arsenic	4.35		3.00		ug/L		1	6020B	Total Recoverable
Barium	56.2		5.00		ug/L		1	6020B	Total Recoverable
Cobalt	43.1		0.500		ug/L		1	6020B	Total Recoverable
Manganese	6170		5.00		ug/L		1	6020B	Total Recoverable

Client Sample ID: AF47626

Lab Sample ID: 680-224844-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1300000		5000		ug/L		10	6010D	Total Recoverable
Iron	204000		100		ug/L		1	6010D	Total Recoverable
Magnesium	349000		500		ug/L		1	6010D	Total Recoverable
Potassium	20800		1000		ug/L		1	6010D	Total Recoverable
Sodium	194000		2000		ug/L		1	6010D	Total Recoverable
Cobalt	9.13		2.00		ug/L		2	6020A	Dissolved
Manganese	8830		25.0		ug/L		10	6020A	Dissolved
Iron	219000		250		ug/L		10	6020A	Dissolved
Arsenic	4.83		3.00		ug/L		1	6020B	Total Recoverable
Barium	48.3		5.00		ug/L		1	6020B	Total Recoverable
Cobalt	10.4		0.500		ug/L		1	6020B	Total Recoverable
Manganese	10200		5.00		ug/L		1	6020B	Total Recoverable

Client Sample ID: AF47625

Lab Sample ID: 680-224844-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	472000		500		ug/L		1	6010D	Total Recoverable
Iron	15300		100		ug/L		1	6010D	Total Recoverable
Magnesium	15200		500		ug/L		1	6010D	Total Recoverable
Potassium	1450		1000		ug/L		1	6010D	Total Recoverable
Sodium	70200		2000		ug/L		1	6010D	Total Recoverable
Manganese	517		5.00		ug/L		2	6020A	Dissolved
Iron	14300		50.0		ug/L		2	6020A	Dissolved
Barium	338		5.00		ug/L		1	6020B	Total Recoverable
Manganese	452		5.00		ug/L		1	6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47624

Lab Sample ID: 680-224844-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	152000		500		ug/L	1		6010D	Total Recoverable
Iron	120000		100		ug/L	1		6010D	Total Recoverable
Magnesium	3990		500		ug/L	1		6010D	Total Recoverable
Sodium	78700		2000		ug/L	1		6010D	Total Recoverable
Beryllium	4.57		0.500		ug/L	2		6020A	Dissolved
Cobalt	14.3		2.00		ug/L	2		6020A	Dissolved
Manganese	84.2		5.00		ug/L	2		6020A	Dissolved
Lithium	12.4		5.00		ug/L	2		6020A	Dissolved
Iron	118000		50.0		ug/L	2		6020A	Dissolved
Barium	1540		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	5.20		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	15.1		0.500		ug/L	1		6020B	Total Recoverable
Lead	8.81		2.50		ug/L	1		6020B	Total Recoverable
Manganese	80.3		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47623

Lab Sample ID: 680-224844-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	697000		500		ug/L	1		6010D	Total Recoverable
Iron	13100		100		ug/L	1		6010D	Total Recoverable
Magnesium	76500		500		ug/L	1		6010D	Total Recoverable
Potassium	8510		1000		ug/L	1		6010D	Total Recoverable
Sodium	129000		2000		ug/L	1		6010D	Total Recoverable
Manganese	610		5.00		ug/L	2		6020A	Dissolved
Lithium	19.3		5.00		ug/L	2		6020A	Dissolved
Iron	12800		50.0		ug/L	2		6020A	Dissolved
Barium	133		5.00		ug/L	1		6020B	Total Recoverable
Manganese	660		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47622

Lab Sample ID: 680-224844-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	549000		500		ug/L	1		6010D	Total Recoverable
Iron	1230		100		ug/L	1		6010D	Total Recoverable
Magnesium	52000		500		ug/L	1		6010D	Total Recoverable
Potassium	3890		1000		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47622 (Continued)

Lab Sample ID: 680-224844-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	81800		2000		ug/L	1		6010D	Total Recoverable
Cobalt	25.3		2.00		ug/L	2		6020A	Dissolved
Manganese	3290		5.00		ug/L	2		6020A	Dissolved
Lithium	7.09		5.00		ug/L	2		6020A	Dissolved
Iron	1330		50.0		ug/L	2		6020A	Dissolved
Barium	83.8		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	28.6		0.500		ug/L	1		6020B	Total Recoverable
Manganese	3730		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47659

Lab Sample ID: 680-224844-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	81700		500		ug/L	1		6010D	Total Recoverable
Iron	2300		100		ug/L	1		6010D	Total Recoverable
Magnesium	2720		500		ug/L	1		6010D	Total Recoverable
Sodium	14300		2000		ug/L	1		6010D	Total Recoverable
Cobalt	7.01		2.00		ug/L	2		6020A	Dissolved
Manganese	97.5		5.00		ug/L	2		6020A	Dissolved
Iron	2170		50.0		ug/L	2		6020A	Dissolved
Barium	189		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	7.29		0.500		ug/L	1		6020B	Total Recoverable
Manganese	101		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47660

Lab Sample ID: 680-224844-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	79400		500		ug/L	1		6010D	Total Recoverable
Iron	2250		100		ug/L	1		6010D	Total Recoverable
Magnesium	2700		500		ug/L	1		6010D	Total Recoverable
Sodium	14100		2000		ug/L	1		6010D	Total Recoverable
Cobalt	6.68		2.00		ug/L	2		6020A	Dissolved
Manganese	90.9		5.00		ug/L	2		6020A	Dissolved
Iron	1760		50.0		ug/L	2		6020A	Dissolved
Barium	191		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	7.45		0.500		ug/L	1		6020B	Total Recoverable
Manganese	104		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47661

Lab Sample ID: 680-224844-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	115000		500		ug/L	1		6010D	Total Recoverable
Iron	242		100		ug/L	1		6010D	Total Recoverable
Magnesium	2480		500		ug/L	1		6010D	Total Recoverable
Potassium	1970		1000		ug/L	1		6010D	Total Recoverable
Sodium	16300		2000		ug/L	1		6010D	Total Recoverable
Cobalt	7.85		2.00		ug/L	2		6020A	Dissolved
Manganese	243		5.00		ug/L	2		6020A	Dissolved
Lithium	5.47		5.00		ug/L	2		6020A	Dissolved
Iron	225		50.0		ug/L	2		6020A	Dissolved
Barium	222		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	8.62		0.500		ug/L	1		6020B	Total Recoverable
Manganese	256		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47634

Lab Sample ID: 680-224844-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	168000		500		ug/L	1		6010D	Total Recoverable
Magnesium	3000		500		ug/L	1		6010D	Total Recoverable
Sodium	24200		2000		ug/L	1		6010D	Total Recoverable
Cobalt	2.79		2.00		ug/L	2		6020A	Dissolved
Manganese	117		5.00		ug/L	2		6020A	Dissolved
Lithium	9.21		5.00		ug/L	2		6020A	Dissolved
Iron	79.1		50.0		ug/L	2		6020A	Dissolved
Barium	129		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	3.06		0.500		ug/L	1		6020B	Total Recoverable
Manganese	126		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47635

Lab Sample ID: 680-224844-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	175000		500		ug/L	1		6010D	Total Recoverable
Magnesium	3060		500		ug/L	1		6010D	Total Recoverable
Sodium	25000		2000		ug/L	1		6010D	Total Recoverable
Cobalt	2.92		2.00		ug/L	2		6020A	Dissolved
Manganese	118		5.00		ug/L	2		6020A	Dissolved
Lithium	9.97		5.00		ug/L	2		6020A	Dissolved
Iron	82.0		50.0		ug/L	2		6020A	Dissolved
Barium	134		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47635 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-24			Prep Type
						Dil Fac	D	Method	
Cobalt	3.13		0.500		ug/L	1		6020B	Total Recoverable
Manganese	130		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47636

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-25			Prep Type
						Dil Fac	D	Method	
Calcium	138000		500		ug/L	1		6010D	Total Recoverable
Iron	402		100		ug/L	1		6010D	Total Recoverable
Magnesium	2190		500		ug/L	1		6010D	Total Recoverable
Sodium	10000		2000		ug/L	1		6010D	Total Recoverable
Cobalt	3.33		2.00		ug/L	2		6020A	Dissolved
Manganese	144		5.00		ug/L	2		6020A	Dissolved
Iron	338		50.0		ug/L	2		6020A	Dissolved
Barium	184		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	3.64		0.500		ug/L	1		6020B	Total Recoverable
Manganese	157		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47637

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-26			Prep Type
						Dil Fac	D	Method	
Calcium	222000		500		ug/L	1		6010D	Total Recoverable
Iron	2080		100		ug/L	1		6010D	Total Recoverable
Magnesium	7110		500		ug/L	1		6010D	Total Recoverable
Sodium	7350		2000		ug/L	1		6010D	Total Recoverable
Cobalt	13.7		2.00		ug/L	2		6020A	Dissolved
Manganese	664		5.00		ug/L	2		6020A	Dissolved
Iron	1970		50.0		ug/L	2		6020A	Dissolved
Barium	80.4		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	14.2		0.500		ug/L	1		6020B	Total Recoverable
Manganese	693		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47638

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-27			Prep Type
						Dil Fac	D	Method	
Calcium	130000		500		ug/L	1		6010D	Total Recoverable
Magnesium	3140		500		ug/L	1		6010D	Total Recoverable
Sodium	11800		2000		ug/L	1		6010D	Total Recoverable
Manganese	7.64		5.00		ug/L	2		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47638 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-27			Prep Type
						Dil Fac	D	Method	
Barium	61.6		5.00		ug/L	1		6020B	Total Recoverable
Manganese	8.26		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47643

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-28			Prep Type
						Dil Fac	D	Method	
Calcium	13500		500		ug/L	1		6010D	Total Recoverable
Magnesium	922		500		ug/L	1		6010D	Total Recoverable
Potassium	2270		1000		ug/L	1		6010D	Total Recoverable
Sodium	6800		2000		ug/L	1		6010D	Total Recoverable
Manganese	10.4		5.00		ug/L	2		6020A	Dissolved
Barium	132		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.860		0.500		ug/L	1		6020B	Total Recoverable
Manganese	8.61		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47644

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-29			Prep Type
						Dil Fac	D	Method	
Calcium	14400		500		ug/L	1		6010D	Total Recoverable
Magnesium	979		500		ug/L	1		6010D	Total Recoverable
Potassium	2400		1000		ug/L	1		6010D	Total Recoverable
Sodium	7190		2000		ug/L	1		6010D	Total Recoverable
Manganese	6.63		5.00		ug/L	2		6020A	Dissolved
Barium	138		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.740		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	0.905		0.500		ug/L	1		6020B	Total Recoverable
Manganese	7.44		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47631

Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 680-224844-30			Prep Type
						Dil Fac	D	Method	
Calcium	41600		500		ug/L	1		6010D	Total Recoverable
Iron	8980		100		ug/L	1		6010D	Total Recoverable
Magnesium	2680		500		ug/L	1		6010D	Total Recoverable
Potassium	1720		1000		ug/L	1		6010D	Total Recoverable
Sodium	6460		2000		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47631 (Continued)

Lab Sample ID: 680-224844-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	162		5.00		ug/L	2		6020A	Dissolved
Iron	7800		50.0		ug/L	2		6020A	Dissolved
Barium	170		5.00		ug/L	1		6020B	Total Recoverable
Manganese	88.3		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47655

Lab Sample ID: 680-224844-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	15700		500		ug/L	1		6010D	Total Recoverable
Iron	341		100		ug/L	1		6010D	Total Recoverable
Sodium	4060		2000		ug/L	1		6010D	Total Recoverable
Manganese	192		5.00		ug/L	2		6020A	Dissolved
Iron	366		50.0		ug/L	2		6020A	Dissolved
Barium	38.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.19		0.500		ug/L	1		6020B	Total Recoverable
Manganese	198		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47662

Lab Sample ID: 680-224844-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	16100		500		ug/L	1		6010D	Total Recoverable
Magnesium	5150		500		ug/L	1		6010D	Total Recoverable
Potassium	1230		1000		ug/L	1		6010D	Total Recoverable
Sodium	2540		2000		ug/L	1		6010D	Total Recoverable
Beryllium	3.84		0.500		ug/L	2		6020A	Dissolved
Cobalt	30.5		2.00		ug/L	2		6020A	Dissolved
Manganese	40.5		5.00		ug/L	2		6020A	Dissolved
Iron	172		50.0		ug/L	2		6020A	Dissolved
Barium	48.1		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	4.07		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	32.6		0.500		ug/L	1		6020B	Total Recoverable
Lead	2.63		2.50		ug/L	1		6020B	Total Recoverable
Manganese	37.9		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47663

Lab Sample ID: 680-224844-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	11500		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47663 (Continued)

Lab Sample ID: 680-224844-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	136		100		ug/L		1	6010D	Total Recoverable
Magnesium	617		500		ug/L		1	6010D	Total Recoverable
Sodium	6350		2000		ug/L		1	6010D	Total Recoverable
Cobalt	9.36		2.00		ug/L		2	6020A	Dissolved
Manganese	478		5.00		ug/L		2	6020A	Dissolved
Iron	143		50.0		ug/L		2	6020A	Dissolved
Barium	40.5		5.00		ug/L		1	6020B	Total Recoverable
Cobalt	9.60		0.500		ug/L		1	6020B	Total Recoverable
Manganese	517		5.00		ug/L		1	6020B	Total Recoverable

Client Sample ID: AF47658

Lab Sample ID: 680-224844-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1260000		5000		ug/L		10	6010D	Total Recoverable
Iron	3090		100		ug/L		1	6010D	Total Recoverable
Magnesium	144000		500		ug/L		1	6010D	Total Recoverable
Potassium	8560		1000		ug/L		1	6010D	Total Recoverable
Sodium	202000		2000		ug/L		1	6010D	Total Recoverable
Manganese	5950		12.5		ug/L		5	6020A	Dissolved
Lithium	19.2		5.00		ug/L		2	6020A	Dissolved
Iron	3030		50.0		ug/L		2	6020A	Dissolved
Barium	60.1		5.00		ug/L		1	6020B	Total Recoverable
Cobalt	1.15		0.500		ug/L		1	6020B	Total Recoverable
Manganese	6800		5.00		ug/L		1	6020B	Total Recoverable

Client Sample ID: AF47639

Lab Sample ID: 680-224844-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	274000		500		ug/L		1	6010D	Total Recoverable
Iron	1750		100		ug/L		1	6010D	Total Recoverable
Magnesium	4760		500		ug/L		1	6010D	Total Recoverable
Sodium	19900		2000		ug/L		1	6010D	Total Recoverable
Cobalt	4.55		2.00		ug/L		2	6020A	Dissolved
Manganese	305		5.00		ug/L		2	6020A	Dissolved
Iron	1490		50.0		ug/L		2	6020A	Dissolved
Barium	126		5.00		ug/L		1	6020B	Total Recoverable
Cobalt	4.20		0.500		ug/L		1	6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47639 (Continued)

Lab Sample ID: 680-224844-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	305		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47645

Lab Sample ID: 680-224844-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	393000		500		ug/L	1		6010D	Total Recoverable
Iron	9740		100		ug/L	1		6010D	Total Recoverable
Magnesium	10200		500		ug/L	1		6010D	Total Recoverable
Potassium	4370		1000		ug/L	1		6010D	Total Recoverable
Sodium	52100		2000		ug/L	1		6010D	Total Recoverable
Manganese	701		5.00		ug/L	2		6020A	Dissolved
Lithium	27.6		5.00		ug/L	2		6020A	Dissolved
Iron	8850		50.0		ug/L	2		6020A	Dissolved
Barium	333		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.580		0.500		ug/L	1		6020B	Total Recoverable
Manganese	714		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47641

Lab Sample ID: 680-224844-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	273000		500		ug/L	1		6010D	Total Recoverable
Iron	494		100		ug/L	1		6010D	Total Recoverable
Magnesium	4570		500		ug/L	1		6010D	Total Recoverable
Potassium	2330		1000		ug/L	1		6010D	Total Recoverable
Sodium	66800		2000		ug/L	1		6010D	Total Recoverable
Cobalt	56.7		2.00		ug/L	2		6020A	Dissolved
Manganese	1710		5.00		ug/L	2		6020A	Dissolved
Lithium	8.26		5.00		ug/L	2		6020A	Dissolved
Iron	532		50.0		ug/L	2		6020A	Dissolved
Barium	121		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	60.0		0.500		ug/L	1		6020B	Total Recoverable
Manganese	1840		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47642

Lab Sample ID: 680-224844-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	450000		500		ug/L	1		6010D	Total Recoverable
Iron	13500		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47642 (Continued)

Lab Sample ID: 680-224844-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	8030		500		ug/L	1		6010D	Total Recoverable
Potassium	1230		1000		ug/L	1		6010D	Total Recoverable
Sodium	70600		2000		ug/L	1		6010D	Total Recoverable
Cobalt	3.16		2.00		ug/L	2		6020A	Dissolved
Manganese	676		5.00		ug/L	2		6020A	Dissolved
Lithium	6.35		5.00		ug/L	2		6020A	Dissolved
Iron	13700		50.0		ug/L	2		6020A	Dissolved
Barium	58.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	3.07		0.500		ug/L	1		6020B	Total Recoverable
Manganese	673		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47640

Lab Sample ID: 680-224844-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	164000		500		ug/L	1		6010D	Total Recoverable
Magnesium	7410		500		ug/L	1		6010D	Total Recoverable
Sodium	48100		2000		ug/L	1		6010D	Total Recoverable
Manganese	14.5		5.00		ug/L	2		6020A	Dissolved
Barium	106		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.955		0.500		ug/L	1		6020B	Total Recoverable
Manganese	15.7		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47653

Lab Sample ID: 680-224844-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	21800		500		ug/L	1		6010D	Total Recoverable
Iron	155		100		ug/L	1		6010D	Total Recoverable
Magnesium	913		500		ug/L	1		6010D	Total Recoverable
Potassium	1080		1000		ug/L	1		6010D	Total Recoverable
Sodium	3870		2000		ug/L	1		6010D	Total Recoverable
Manganese	198		5.00		ug/L	2		6020A	Dissolved
Iron	181		50.0		ug/L	2		6020A	Dissolved
Barium	77.8		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.24		0.500		ug/L	1		6020B	Total Recoverable
Manganese	205		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47654

Lab Sample ID: 680-224844-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	51400		500		ug/L	1		6010D	Total Recoverable
Iron	1100		100		ug/L	1		6010D	Total Recoverable
Magnesium	1270		500		ug/L	1		6010D	Total Recoverable
Potassium	1080		1000		ug/L	1		6010D	Total Recoverable
Sodium	3340		2000		ug/L	1		6010D	Total Recoverable
Manganese	113		5.00		ug/L	2		6020A	Dissolved
Iron	437		50.0		ug/L	2		6020A	Dissolved
Barium	40.3		5.00		ug/L	1		6020B	Total Recoverable
Manganese	114		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47657

Lab Sample ID: 680-224844-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	6360		500		ug/L	1		6010D	Total Recoverable
Iron	886		100		ug/L	1		6010D	Total Recoverable
Sodium	3550		2000		ug/L	1		6010D	Total Recoverable
Manganese	43.4		5.00		ug/L	2		6020A	Dissolved
Iron	931		50.0		ug/L	2		6020A	Dissolved
Barium	17.2		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.06		0.500		ug/L	1		6020B	Total Recoverable
Manganese	47.2		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47664

Lab Sample ID: 680-224844-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2020		500		ug/L	1		6010D	Total Recoverable
Iron	383		100		ug/L	1		6010D	Total Recoverable
Sodium	4040		2000		ug/L	1		6010D	Total Recoverable
Cobalt	12.5		2.00		ug/L	2		6020A	Dissolved
Manganese	77.3		5.00		ug/L	2		6020A	Dissolved
Iron	597		50.0		ug/L	2		6020A	Dissolved
Barium	31.1		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.760		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	15.4		0.500		ug/L	1		6020B	Total Recoverable
Manganese	84.4		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47656

Lab Sample ID: 680-224844-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	58600		500		ug/L	1		6010D	Total Recoverable
Iron	513		100		ug/L	1		6010D	Total Recoverable
Magnesium	1520		500		ug/L	1		6010D	Total Recoverable
Sodium	7450		2000		ug/L	1		6010D	Total Recoverable
Manganese	161		5.00		ug/L	2		6020A	Dissolved
Iron	235		50.0		ug/L	2		6020A	Dissolved
Barium	56.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.765		0.500		ug/L	1		6020B	Total Recoverable
Manganese	179		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47633

Lab Sample ID: 680-224844-1

Matrix: Water

Date Collected: 10/25/22 09:27
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	13100		500		ug/L		11/08/22 04:59	11/08/22 23:10	1
Iron	10900		100		ug/L		11/08/22 04:59	11/08/22 23:10	1
Magnesium	647		500		ug/L		11/08/22 04:59	11/08/22 23:10	1
Potassium	1000	U	1000		ug/L		11/08/22 04:59	11/08/22 23:10	1
Sodium	5680		2000		ug/L		11/08/22 04:59	11/08/22 23:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:09	11/14/22 15:45	2
Cobalt	3.42		2.00		ug/L		11/10/22 14:09	11/14/22 15:45	2
Manganese	13.0		5.00		ug/L		11/10/22 14:09	11/14/22 15:45	2
Lithium	6.06		5.00		ug/L		11/10/22 14:09	11/14/22 15:45	2
Iron	10900		50.0		ug/L		11/10/22 14:09	11/14/22 15:45	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	10.0	U	10.0		ug/L		11/10/22 14:04	11/14/22 20:20	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:00	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:00	1
Barium	85.1		5.00		ug/L		11/08/22 04:59	11/09/22 17:00	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:00	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:00	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:00	1
Cobalt	1.89		0.500		ug/L		11/08/22 04:59	11/09/22 17:00	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 17:00	1
Manganese	12.9		5.00		ug/L		11/08/22 04:59	11/09/22 17:00	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:00	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47632

Lab Sample ID: 680-224844-2

Matrix: Water

Date Collected: 10/25/22 10:34

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	27500		500		ug/L		11/08/22 04:59	11/08/22 23:19	1
Iron	100	U	100		ug/L		11/08/22 04:59	11/08/22 23:19	1
Magnesium	1820		500		ug/L		11/08/22 04:59	11/08/22 23:19	1
Potassium	1000	U	1000		ug/L		11/08/22 04:59	11/08/22 23:19	1
Sodium	5740		2000		ug/L		11/08/22 04:59	11/08/22 23:19	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:09	11/14/22 15:59	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:09	11/14/22 15:59	2
Manganese	12.9		5.00		ug/L		11/10/22 14:09	11/14/22 15:59	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 15:59	2
Iron	264		50.0		ug/L		11/10/22 14:09	11/14/22 15:59	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	10.0	U	10.0		ug/L		11/10/22 14:04	11/14/22 20:23	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:08	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:08	1
Barium	46.6		5.00		ug/L		11/08/22 04:59	11/09/22 17:08	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:08	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:08	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:08	1
Cobalt	0.625		0.500		ug/L		11/08/22 04:59	11/09/22 17:08	1
Lead	3.20		2.50		ug/L		11/08/22 04:59	11/09/22 17:08	1
Manganese	14.5		5.00		ug/L		11/08/22 04:59	11/09/22 17:08	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:08	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47651

Lab Sample ID: 680-224844-3

Matrix: Water

Date Collected: 10/25/22 11:10
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370000		500		ug/L		11/08/22 04:59	11/08/22 23:22	1
Iron	30400		100		ug/L		11/08/22 04:59	11/08/22 23:22	1
Magnesium	13100		500		ug/L		11/08/22 04:59	11/08/22 23:22	1
Potassium	1830		1000		ug/L		11/08/22 04:59	11/08/22 23:22	1
Sodium	87000		2000		ug/L		11/08/22 04:59	11/08/22 23:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	24.8		0.500		ug/L		11/10/22 14:09	11/14/22 16:13	2
Cobalt	133		2.00		ug/L		11/10/22 14:09	11/14/22 16:13	2
Manganese	140		5.00		ug/L		11/10/22 14:09	11/14/22 16:13	2
Lithium	106		5.00		ug/L		11/10/22 14:09	11/14/22 16:13	2
Iron	33500		50.0		ug/L		11/10/22 14:09	11/14/22 16:13	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.50	U	2.50		ug/L		11/10/22 14:04	11/14/22 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:11	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:11	1
Barium	465		5.00		ug/L		11/08/22 04:59	11/09/22 17:11	1
Beryllium	27.0		0.500		ug/L		11/08/22 04:59	11/09/22 17:11	1
Cadmium	0.580		0.500		ug/L		11/08/22 04:59	11/09/22 17:11	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:11	1
Cobalt	156		0.500		ug/L		11/08/22 04:59	11/09/22 17:11	1
Lead	2.85		2.50		ug/L		11/08/22 04:59	11/09/22 17:11	1
Manganese	162		5.00		ug/L		11/08/22 04:59	11/09/22 17:11	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:11	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47650

Lab Sample ID: 680-224844-4

Matrix: Water

Date Collected: 10/25/22 12:46
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	231000		500		ug/L		11/08/22 04:59	11/08/22 23:25	1
Iron	81000		100		ug/L		11/08/22 04:59	11/08/22 23:25	1
Magnesium	12000		500		ug/L		11/08/22 04:59	11/08/22 23:25	1
Potassium	2460		1000		ug/L		11/08/22 04:59	11/08/22 23:25	1
Sodium	67700		2000		ug/L		11/08/22 04:59	11/08/22 23:25	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	16.4		0.500		ug/L		11/10/22 14:09	11/14/22 16:16	2
Cobalt	38.1		2.00		ug/L		11/10/22 14:09	11/14/22 16:16	2
Manganese	280		5.00		ug/L		11/10/22 14:09	11/14/22 16:16	2
Lithium	54.5		5.00		ug/L		11/10/22 14:09	11/14/22 16:16	2
Iron	86500		50.0		ug/L		11/10/22 14:09	11/14/22 16:16	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	8.56		5.00		ug/L		11/10/22 14:04	11/14/22 20:54	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:14	1
Arsenic	4.10		3.00		ug/L		11/08/22 04:59	11/09/22 17:14	1
Barium	30.6		5.00		ug/L		11/08/22 04:59	11/09/22 17:14	1
Beryllium	18.8		0.500		ug/L		11/08/22 04:59	11/09/22 17:14	1
Cadmium	0.805		0.500		ug/L		11/08/22 04:59	11/09/22 17:14	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:14	1
Cobalt	41.5		0.500		ug/L		11/08/22 04:59	11/09/22 17:14	1
Lead	13.4		2.50		ug/L		11/08/22 04:59	11/09/22 17:14	1
Manganese	316		5.00		ug/L		11/08/22 04:59	11/09/22 17:14	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:14	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47649

Lab Sample ID: 680-224844-5

Matrix: Water

Date Collected: 10/25/22 14:11
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	415000		500		ug/L		11/08/22 04:59	11/08/22 23:34	1
Iron	171000		100		ug/L		11/08/22 04:59	11/08/22 23:34	1
Magnesium	20600		500		ug/L		11/08/22 04:59	11/08/22 23:34	1
Potassium	2300		1000		ug/L		11/08/22 04:59	11/08/22 23:34	1
Sodium	73300		2000		ug/L		11/08/22 04:59	11/08/22 23:34	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	30.8		0.500		ug/L		11/10/22 14:09	11/14/22 16:20	2
Cobalt	82.8		2.00		ug/L		11/10/22 14:09	11/14/22 16:20	2
Manganese	411		5.00		ug/L		11/10/22 14:09	11/14/22 16:20	2
Lithium	65.1		5.00		ug/L		11/10/22 14:09	11/14/22 16:20	2
Iron	192000		50.0		ug/L		11/10/22 14:09	11/14/22 16:20	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	18.9		5.00		ug/L		11/10/22 14:04	11/14/22 20:57	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:16	1
Arsenic	6.53		3.00		ug/L		11/08/22 04:59	11/09/22 17:16	1
Barium	42.2		5.00		ug/L		11/08/22 04:59	11/09/22 17:16	1
Beryllium	34.5		0.500		ug/L		11/08/22 04:59	11/09/22 17:16	1
Cadmium	1.87		0.500		ug/L		11/08/22 04:59	11/09/22 17:16	1
Chromium	8.79		5.00		ug/L		11/08/22 04:59	11/09/22 17:16	1
Cobalt	95.6		0.500		ug/L		11/08/22 04:59	11/09/22 17:16	1
Lead	29.8		2.50		ug/L		11/08/22 04:59	11/09/22 17:16	1
Manganese	471		5.00		ug/L		11/08/22 04:59	11/09/22 17:16	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:16	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47647

Lab Sample ID: 680-224844-6

Matrix: Water

Date Collected: 10/25/22 15:16
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	214000		500		ug/L		11/08/22 04:59	11/08/22 23:37	1
Iron	63500		100		ug/L		11/08/22 04:59	11/08/22 23:37	1
Magnesium	18600		500		ug/L		11/08/22 04:59	11/08/22 23:37	1
Potassium	2350		1000		ug/L		11/08/22 04:59	11/08/22 23:37	1
Sodium	8250		2000		ug/L		11/08/22 04:59	11/08/22 23:37	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	3.74		0.500		ug/L		11/10/22 14:09	11/14/22 16:23	2
Cobalt	19.4		2.00		ug/L		11/10/22 14:09	11/14/22 16:23	2
Manganese	289		5.00		ug/L		11/10/22 14:09	11/14/22 16:23	2
Lithium	15.1		5.00		ug/L		11/10/22 14:09	11/14/22 16:23	2
Iron	71400		50.0		ug/L		11/10/22 14:09	11/14/22 16:23	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	27.3		5.00		ug/L		11/10/22 14:04	11/14/22 21:01	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:25	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:25	1
Barium	18.3		5.00		ug/L		11/08/22 04:59	11/09/22 17:25	1
Beryllium	4.32		0.500		ug/L		11/08/22 04:59	11/09/22 17:25	1
Cadmium	1.38		0.500		ug/L		11/08/22 04:59	11/09/22 17:25	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:25	1
Cobalt	21.5		0.500		ug/L		11/08/22 04:59	11/09/22 17:25	1
Lead	25.1		2.50		ug/L		11/08/22 04:59	11/09/22 17:25	1
Manganese	325		5.00		ug/L		11/08/22 04:59	11/09/22 17:25	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:25	1

Eurofins Savannah

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47648

Lab Sample ID: 680-224844-7

Matrix: Water

Date Collected: 10/25/22 15:21
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	213000		500		ug/L		11/08/22 04:59	11/08/22 23:40	1
Iron	62800		100		ug/L		11/08/22 04:59	11/08/22 23:40	1
Magnesium	18600		500		ug/L		11/08/22 04:59	11/08/22 23:40	1
Potassium	2310		1000		ug/L		11/08/22 04:59	11/08/22 23:40	1
Sodium	8230		2000		ug/L		11/08/22 04:59	11/08/22 23:40	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	3.71		0.500		ug/L		11/10/22 14:09	11/14/22 16:26	2
Cobalt	18.7		2.00		ug/L		11/10/22 14:09	11/14/22 16:26	2
Manganese	284		5.00		ug/L		11/10/22 14:09	11/14/22 16:26	2
Lithium	15.3		5.00		ug/L		11/10/22 14:09	11/14/22 16:26	2
Iron	68100		50.0		ug/L		11/10/22 14:09	11/14/22 16:26	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	28.0		5.00		ug/L		11/10/22 14:04	11/14/22 21:04	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:27	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:27	1
Barium	17.8		5.00		ug/L		11/08/22 04:59	11/09/22 17:27	1
Beryllium	4.00		0.500		ug/L		11/08/22 04:59	11/09/22 17:27	1
Cadmium	1.72		0.500		ug/L		11/08/22 04:59	11/09/22 17:27	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:27	1
Cobalt	20.4		0.500		ug/L		11/08/22 04:59	11/09/22 17:27	1
Lead	24.3		2.50		ug/L		11/08/22 04:59	11/09/22 17:27	1
Manganese	314		5.00		ug/L		11/08/22 04:59	11/09/22 17:27	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:27	1

Eurofins Savannah

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47652

Lab Sample ID: 680-224844-8

Matrix: Water

Date Collected: 10/26/22 09:24
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320000		500		ug/L		11/08/22 04:59	11/08/22 23:43	1
Iron	114000		100		ug/L		11/08/22 04:59	11/08/22 23:43	1
Magnesium	68200		5000		ug/L		11/08/22 04:59	11/09/22 15:44	10
Potassium	4210		1000		ug/L		11/08/22 04:59	11/08/22 23:43	1
Sodium	80200		20000		ug/L		11/08/22 04:59	11/09/22 15:44	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	11.7		0.500		ug/L		11/10/22 14:09	11/14/22 16:30	2
Cobalt	68.3		2.00		ug/L		11/10/22 14:09	11/14/22 16:30	2
Manganese	885		5.00		ug/L		11/10/22 14:09	11/14/22 16:30	2
Lithium	13.7		5.00		ug/L		11/10/22 14:09	11/14/22 16:30	2
Iron	141000		50.0		ug/L		11/10/22 14:09	11/14/22 16:30	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	46.4		5.00		ug/L		11/10/22 14:04	11/14/22 21:08	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:30	1
Arsenic	6.21		3.00		ug/L		11/08/22 04:59	11/09/22 17:30	1
Barium	28.1		5.00		ug/L		11/08/22 04:59	11/09/22 17:30	1
Beryllium	11.7		0.500		ug/L		11/08/22 04:59	11/09/22 17:30	1
Cadmium	3.19		0.500		ug/L		11/08/22 04:59	11/09/22 17:30	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:30	1
Cobalt	79.7		0.500		ug/L		11/08/22 04:59	11/09/22 17:30	1
Lead	55.1		2.50		ug/L		11/08/22 04:59	11/09/22 17:30	1
Manganese	1050		5.00		ug/L		11/08/22 04:59	11/09/22 17:30	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:30	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47646

Lab Sample ID: 680-224844-9

Matrix: Water

Date Collected: 10/26/22 10:30

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	193000		500		ug/L		11/08/22 04:59	11/08/22 23:46	1
Iron	133000		100		ug/L		11/08/22 04:59	11/08/22 23:46	1
Magnesium	43000		500		ug/L		11/08/22 04:59	11/08/22 23:46	1
Potassium	3850		1000		ug/L		11/08/22 04:59	11/08/22 23:46	1
Sodium	57000		2000		ug/L		11/08/22 04:59	11/08/22 23:46	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	9.82		0.500		ug/L		11/10/22 14:09	11/14/22 16:33	2
Cobalt	43.6		2.00		ug/L		11/10/22 14:09	11/14/22 16:33	2
Manganese	391		5.00		ug/L		11/10/22 14:09	11/14/22 16:33	2
Lithium	21.0		5.00		ug/L		11/10/22 14:09	11/14/22 16:33	2
Iron	162000		50.0		ug/L		11/10/22 14:09	11/14/22 16:33	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	26.5		5.00		ug/L		11/10/22 14:04	11/14/22 21:11	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:33	1
Arsenic	4.72		3.00		ug/L		11/08/22 04:59	11/09/22 17:33	1
Barium	46.9		5.00		ug/L		11/08/22 04:59	11/09/22 17:33	1
Beryllium	11.2		0.500		ug/L		11/08/22 04:59	11/09/22 17:33	1
Cadmium	2.20		0.500		ug/L		11/08/22 04:59	11/09/22 17:33	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:33	1
Cobalt	52.3		0.500		ug/L		11/08/22 04:59	11/09/22 17:33	1
Lead	8.88		2.50		ug/L		11/08/22 04:59	11/09/22 17:33	1
Manganese	468		5.00		ug/L		11/08/22 04:59	11/09/22 17:33	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:33	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47621

Lab Sample ID: 680-224844-10

Matrix: Water

Date Collected: 10/26/22 11:47

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	181000		500		ug/L		11/08/22 04:59	11/08/22 23:49	1
Iron	54800		100		ug/L		11/08/22 04:59	11/08/22 23:49	1
Magnesium	6720		500		ug/L		11/08/22 04:59	11/08/22 23:49	1
Potassium	1000	U	1000		ug/L		11/08/22 04:59	11/08/22 23:49	1
Sodium	44600		2000		ug/L		11/08/22 04:59	11/08/22 23:49	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	3.78		0.500		ug/L		11/10/22 14:09	11/14/22 16:37	2
Cobalt	14.7		2.00		ug/L		11/10/22 14:09	11/14/22 16:37	2
Manganese	196		5.00		ug/L		11/10/22 14:09	11/14/22 16:37	2
Lithium	63.3		5.00		ug/L		11/10/22 14:09	11/14/22 16:37	2
Iron	55600		50.0		ug/L		11/10/22 14:09	11/14/22 16:37	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:25	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:35	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:35	1
Barium	46.7		5.00		ug/L		11/08/22 04:59	11/09/22 17:35	1
Beryllium	5.21		0.500		ug/L		11/08/22 04:59	11/09/22 17:35	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:35	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:35	1
Cobalt	15.3		0.500		ug/L		11/08/22 04:59	11/09/22 17:35	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 17:35	1
Manganese	141		5.00		ug/L		11/08/22 04:59	11/09/22 17:35	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:35	1

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Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47630

Lab Sample ID: 680-224844-11

Matrix: Water

Date Collected: 10/26/22 12:58

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	85200		500		ug/L		11/08/22 04:59	11/08/22 23:52	1
Iron	2230		100		ug/L		11/08/22 04:59	11/08/22 23:52	1
Magnesium	1860		500		ug/L		11/08/22 04:59	11/08/22 23:52	1
Potassium	1000	U	1000		ug/L		11/08/22 04:59	11/08/22 23:52	1
Sodium	12400		2000		ug/L		11/08/22 04:59	11/08/22 23:52	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:09	11/14/22 16:40	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:09	11/14/22 16:40	2
Manganese	58.1		5.00		ug/L		11/10/22 14:09	11/14/22 16:40	2
Lithium	5.79		5.00		ug/L		11/10/22 14:09	11/14/22 16:40	2
Iron	1870		50.0		ug/L		11/10/22 14:09	11/14/22 16:40	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:28	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:38	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:38	1
Barium	94.8		5.00		ug/L		11/08/22 04:59	11/09/22 17:38	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:38	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:38	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:38	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:38	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 17:38	1
Manganese	56.2		5.00		ug/L		11/08/22 04:59	11/09/22 17:38	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:38	1

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Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47628

Lab Sample ID: 680-224844-12

Matrix: Water

Date Collected: 10/26/22 14:05

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	486000		500		ug/L		11/08/22 04:59	11/08/22 23:55	1
Iron	94300		100		ug/L		11/08/22 04:59	11/08/22 23:55	1
Magnesium	52700		500		ug/L		11/08/22 04:59	11/08/22 23:55	1
Potassium	6890		1000		ug/L		11/08/22 04:59	11/08/22 23:55	1
Sodium	133000		2000		ug/L		11/08/22 04:59	11/08/22 23:55	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	19.6		0.500		ug/L		11/10/22 14:09	11/14/22 16:44	2
Cobalt	40.6		2.00		ug/L		11/10/22 14:09	11/14/22 16:44	2
Manganese	1010		5.00		ug/L		11/10/22 14:09	11/14/22 16:44	2
Lithium	59.8		5.00		ug/L		11/10/22 14:09	11/14/22 16:44	2
Iron	98800		50.0		ug/L		11/10/22 14:09	11/14/22 16:44	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	14.4		10.0		ug/L		11/10/22 14:04	11/14/22 21:32	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:41	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:41	1
Barium	41.2		5.00		ug/L		11/08/22 04:59	11/09/22 17:41	1
Beryllium	24.5		0.500		ug/L		11/08/22 04:59	11/09/22 17:41	1
Cadmium	1.47		0.500		ug/L		11/08/22 04:59	11/09/22 17:41	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:41	1
Cobalt	50.1		0.500		ug/L		11/08/22 04:59	11/09/22 17:41	1
Lead	18.7		2.50		ug/L		11/08/22 04:59	11/09/22 17:41	1
Manganese	1250		5.00		ug/L		11/08/22 04:59	11/09/22 17:41	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:41	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47629

Lab Sample ID: 680-224844-13

Matrix: Water

Date Collected: 10/26/22 14:10
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	483000		500		ug/L		11/08/22 04:59	11/08/22 23:58	1
Iron	93200		100		ug/L		11/08/22 04:59	11/08/22 23:58	1
Magnesium	52400		500		ug/L		11/08/22 04:59	11/08/22 23:58	1
Potassium	6810		1000		ug/L		11/08/22 04:59	11/08/22 23:58	1
Sodium	133000		2000		ug/L		11/08/22 04:59	11/08/22 23:58	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	20.2		0.500		ug/L		11/10/22 14:09	11/14/22 16:57	2
Cobalt	41.7		2.00		ug/L		11/10/22 14:09	11/14/22 16:57	2
Manganese	1040		5.00		ug/L		11/10/22 14:09	11/14/22 16:57	2
Lithium	63.1		5.00		ug/L		11/10/22 14:09	11/14/22 16:57	2
Iron	102000		50.0		ug/L		11/10/22 14:09	11/14/22 16:57	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	13.8		5.00		ug/L		11/10/22 14:04	11/14/22 21:35	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:44	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:44	1
Barium	40.2		5.00		ug/L		11/08/22 04:59	11/09/22 17:44	1
Beryllium	23.6		0.500		ug/L		11/08/22 04:59	11/09/22 17:44	1
Cadmium	1.58		0.500		ug/L		11/08/22 04:59	11/09/22 17:44	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:44	1
Cobalt	47.3		0.500		ug/L		11/08/22 04:59	11/09/22 17:44	1
Lead	17.7		2.50		ug/L		11/08/22 04:59	11/09/22 17:44	1
Manganese	1180		5.00		ug/L		11/08/22 04:59	11/09/22 17:44	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:44	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47627

Lab Sample ID: 680-224844-14

Matrix: Water

Date Collected: 10/26/22 15:32

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1120000		5000		ug/L		11/08/22 04:59	11/09/22 15:47	10
Iron	10200		100		ug/L		11/08/22 04:59	11/09/22 00:01	1
Magnesium	143000		500		ug/L		11/08/22 04:59	11/09/22 00:01	1
Potassium	10400		1000		ug/L		11/08/22 04:59	11/09/22 00:01	1
Sodium	183000		2000		ug/L		11/08/22 04:59	11/09/22 00:01	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:09	11/14/22 17:01	2
Cobalt	37.0		2.00		ug/L		11/10/22 14:09	11/14/22 17:01	2
Manganese	5130		12.5		ug/L		11/10/22 14:09	11/15/22 15:58	5
Lithium	50.7		5.00		ug/L		11/10/22 14:09	11/14/22 17:01	2
Iron	12300		50.0		ug/L		11/10/22 14:09	11/14/22 17:01	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:38	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:52	1
Arsenic	4.35		3.00		ug/L		11/08/22 04:59	11/09/22 17:52	1
Barium	56.2		5.00		ug/L		11/08/22 04:59	11/09/22 17:52	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:52	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:52	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:52	1
Cobalt	43.1		0.500		ug/L		11/08/22 04:59	11/09/22 17:52	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 17:52	1
Manganese	6170		5.00		ug/L		11/08/22 04:59	11/09/22 17:52	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:52	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47626

Lab Sample ID: 680-224844-15

Matrix: Water

Date Collected: 10/27/22 09:41

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1300000		5000		ug/L		11/08/22 04:59	11/09/22 15:50	10
Iron	204000		100		ug/L		11/08/22 04:59	11/09/22 00:10	1
Magnesium	349000		500		ug/L		11/08/22 04:59	11/09/22 00:10	1
Potassium	20800		1000		ug/L		11/08/22 04:59	11/09/22 00:10	1
Sodium	194000		2000		ug/L		11/08/22 04:59	11/09/22 00:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:09	11/14/22 17:04	2
Cobalt	9.13		2.00		ug/L		11/10/22 14:09	11/14/22 17:04	2
Manganese	8830		25.0		ug/L		11/10/22 14:09	11/15/22 16:02	10
Lithium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 17:04	2
Iron	219000		250		ug/L		11/10/22 14:09	11/15/22 16:02	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:42	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:54	1
Arsenic	4.83		3.00		ug/L		11/08/22 04:59	11/09/22 17:54	1
Barium	48.3		5.00		ug/L		11/08/22 04:59	11/09/22 17:54	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:54	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:54	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:54	1
Cobalt	10.4		0.500		ug/L		11/08/22 04:59	11/09/22 17:54	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 17:54	1
Manganese	10200		5.00		ug/L		11/08/22 04:59	11/09/22 17:54	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:54	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47625

Lab Sample ID: 680-224844-16

Matrix: Water

Date Collected: 10/27/22 11:01
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	472000		500		ug/L		11/08/22 04:59	11/09/22 00:13	1
Iron	15300		100		ug/L		11/08/22 04:59	11/09/22 00:13	1
Magnesium	15200		500		ug/L		11/08/22 04:59	11/09/22 00:13	1
Potassium	1450		1000		ug/L		11/08/22 04:59	11/09/22 00:13	1
Sodium	70200		2000		ug/L		11/08/22 04:59	11/09/22 00:13	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:09	11/14/22 17:08	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:09	11/14/22 17:08	2
Manganese	517		5.00		ug/L		11/10/22 14:09	11/14/22 17:08	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 17:08	2
Iron	14300		50.0		ug/L		11/10/22 14:09	11/14/22 17:08	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:45	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:57	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 17:57	1
Barium	338		5.00		ug/L		11/08/22 04:59	11/09/22 17:57	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:57	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:57	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 17:57	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 17:57	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 17:57	1
Manganese	452		5.00		ug/L		11/08/22 04:59	11/09/22 17:57	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 17:57	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47624

Lab Sample ID: 680-224844-17

Matrix: Water

Date Collected: 10/27/22 12:15
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	152000		500		ug/L		11/08/22 04:59	11/09/22 00:16	1
Iron	120000		100		ug/L		11/08/22 04:59	11/09/22 00:16	1
Magnesium	3990		500		ug/L		11/08/22 04:59	11/09/22 00:16	1
Potassium	1000	U	1000		ug/L		11/08/22 04:59	11/09/22 00:16	1
Sodium	78700		2000		ug/L		11/08/22 04:59	11/09/22 00:16	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	4.57		0.500		ug/L		11/10/22 14:12	11/14/22 17:18	2
Cobalt	14.3		2.00		ug/L		11/10/22 14:12	11/14/22 17:18	2
Manganese	84.2		5.00		ug/L		11/10/22 14:12	11/14/22 17:18	2
Lithium	12.4		5.00		ug/L		11/10/22 14:12	11/14/22 17:18	2
Iron	118000		50.0		ug/L		11/10/22 14:12	11/14/22 17:18	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:49	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:00	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 18:00	1
Barium	1540		5.00		ug/L		11/08/22 04:59	11/09/22 18:00	1
Beryllium	5.20		0.500		ug/L		11/08/22 04:59	11/09/22 18:00	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:00	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:00	1
Cobalt	15.1		0.500		ug/L		11/08/22 04:59	11/09/22 18:00	1
Lead	8.81		2.50		ug/L		11/08/22 04:59	11/09/22 18:00	1
Manganese	80.3		5.00		ug/L		11/08/22 04:59	11/09/22 18:00	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 18:00	1

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Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47623

Lab Sample ID: 680-224844-18

Matrix: Water

Date Collected: 10/27/22 13:24

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	697000		500		ug/L		11/08/22 04:59	11/09/22 00:19	1
Iron	13100		100		ug/L		11/08/22 04:59	11/09/22 00:19	1
Magnesium	76500		500		ug/L		11/08/22 04:59	11/09/22 00:19	1
Potassium	8510		1000		ug/L		11/08/22 04:59	11/09/22 00:19	1
Sodium	129000		2000		ug/L		11/08/22 04:59	11/09/22 00:19	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:42	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 17:42	2
Manganese	610		5.00		ug/L		11/10/22 14:12	11/14/22 17:42	2
Lithium	19.3		5.00		ug/L		11/10/22 14:12	11/14/22 17:42	2
Iron	12800		50.0		ug/L		11/10/22 14:12	11/14/22 17:42	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:52	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:03	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 18:03	1
Barium	133		5.00		ug/L		11/08/22 04:59	11/09/22 18:03	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:03	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:03	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:03	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:03	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 18:03	1
Manganese	660		5.00		ug/L		11/08/22 04:59	11/09/22 18:03	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 18:03	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47622

Lab Sample ID: 680-224844-19

Matrix: Water

Date Collected: 10/27/22 14:46
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	549000		500		ug/L		11/08/22 04:59	11/09/22 00:22	1
Iron	1230		100		ug/L		11/08/22 04:59	11/09/22 00:22	1
Magnesium	52000		500		ug/L		11/08/22 04:59	11/09/22 00:22	1
Potassium	3890		1000		ug/L		11/08/22 04:59	11/09/22 00:22	1
Sodium	81800		2000		ug/L		11/08/22 04:59	11/09/22 00:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:45	2
Cobalt	25.3		2.00		ug/L		11/10/22 14:12	11/14/22 17:45	2
Manganese	3290		5.00		ug/L		11/10/22 14:12	11/14/22 17:45	2
Lithium	7.09		5.00		ug/L		11/10/22 14:12	11/14/22 17:45	2
Iron	1330		50.0		ug/L		11/10/22 14:12	11/14/22 17:45	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 21:56	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:05	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 18:05	1
Barium	83.8		5.00		ug/L		11/08/22 04:59	11/09/22 18:05	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:05	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:05	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:05	1
Cobalt	28.6		0.500		ug/L		11/08/22 04:59	11/09/22 18:05	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 18:05	1
Manganese	3730		5.00		ug/L		11/08/22 04:59	11/09/22 18:05	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 18:05	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47659

Lab Sample ID: 680-224844-20

Matrix: Water

Date Collected: 10/27/22 15:56
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	81700		500		ug/L		11/08/22 04:59	11/09/22 00:25	1
Iron	2300		100		ug/L		11/08/22 04:59	11/09/22 00:25	1
Magnesium	2720		500		ug/L		11/08/22 04:59	11/09/22 00:25	1
Potassium	1000	U	1000		ug/L		11/08/22 04:59	11/09/22 00:25	1
Sodium	14300		2000		ug/L		11/08/22 04:59	11/09/22 00:25	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:49	2
Cobalt	7.01		2.00		ug/L		11/10/22 14:12	11/14/22 17:49	2
Manganese	97.5		5.00		ug/L		11/10/22 14:12	11/14/22 17:49	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 17:49	2
Iron	2170		50.0		ug/L		11/10/22 14:12	11/14/22 17:49	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:04	11/14/22 22:09	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:08	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 18:08	1
Barium	189		5.00		ug/L		11/08/22 04:59	11/09/22 18:08	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:08	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 18:08	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 18:08	1
Cobalt	7.29		0.500		ug/L		11/08/22 04:59	11/09/22 18:08	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 18:08	1
Manganese	101		5.00		ug/L		11/08/22 04:59	11/09/22 18:08	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 18:08	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47660

Lab Sample ID: 680-224844-21

Matrix: Water

Date Collected: 10/27/22 16:01
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	79400		500		ug/L		11/08/22 05:33	11/09/22 00:34	1
Iron	2250		100		ug/L		11/08/22 05:33	11/09/22 00:34	1
Magnesium	2700		500		ug/L		11/08/22 05:33	11/09/22 00:34	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 00:34	1
Sodium	14100		2000		ug/L		11/08/22 05:33	11/09/22 00:34	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:52	2
Cobalt	6.68		2.00		ug/L		11/10/22 14:12	11/14/22 17:52	2
Manganese	90.9		5.00		ug/L		11/10/22 14:12	11/14/22 17:52	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 17:52	2
Iron	1760		50.0		ug/L		11/10/22 14:12	11/14/22 17:52	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	10.0	U	10.0		ug/L		11/10/22 14:07	11/14/22 22:20	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:27	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:27	1
Barium	191		5.00		ug/L		11/08/22 05:33	11/09/22 18:27	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:27	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:27	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:27	1
Cobalt	7.45		0.500		ug/L		11/08/22 05:33	11/09/22 18:27	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:27	1
Manganese	104		5.00		ug/L		11/08/22 05:33	11/09/22 18:27	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:27	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47661

Lab Sample ID: 680-224844-22

Matrix: Water

Date Collected: 10/31/22 10:13

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	115000		500		ug/L		11/08/22 05:33	11/09/22 00:49	1
Iron	242		100		ug/L		11/08/22 05:33	11/09/22 00:49	1
Magnesium	2480		500		ug/L		11/08/22 05:33	11/09/22 00:49	1
Potassium	1970		1000		ug/L		11/08/22 05:33	11/09/22 00:49	1
Sodium	16300		2000		ug/L		11/08/22 05:33	11/09/22 00:49	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:56	2
Cobalt	7.85		2.00		ug/L		11/10/22 14:12	11/14/22 17:56	2
Manganese	243		5.00		ug/L		11/10/22 14:12	11/14/22 17:56	2
Lithium	5.47		5.00		ug/L		11/10/22 14:12	11/14/22 17:56	2
Iron	225		50.0		ug/L		11/10/22 14:12	11/14/22 17:56	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 22:23	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:35	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:35	1
Barium	222		5.00		ug/L		11/08/22 05:33	11/09/22 18:35	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:35	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:35	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:35	1
Cobalt	8.62		0.500		ug/L		11/08/22 05:33	11/09/22 18:35	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:35	1
Manganese	256		5.00		ug/L		11/08/22 05:33	11/09/22 18:35	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:35	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47634

Lab Sample ID: 680-224844-23

Matrix: Water

Date Collected: 10/31/22 11:27
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	168000		500		ug/L		11/08/22 05:33	11/09/22 00:52	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 00:52	1
Magnesium	3000		500		ug/L		11/08/22 05:33	11/09/22 00:52	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 00:52	1
Sodium	24200		2000		ug/L		11/08/22 05:33	11/09/22 00:52	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:59	2
Cobalt	2.79		2.00		ug/L		11/10/22 14:12	11/14/22 17:59	2
Manganese	117		5.00		ug/L		11/10/22 14:12	11/14/22 17:59	2
Lithium	9.21		5.00		ug/L		11/10/22 14:12	11/14/22 17:59	2
Iron	79.1		50.0		ug/L		11/10/22 14:12	11/14/22 17:59	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 22:27	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:38	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:38	1
Barium	129		5.00		ug/L		11/08/22 05:33	11/09/22 18:38	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:38	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:38	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:38	1
Cobalt	3.06		0.500		ug/L		11/08/22 05:33	11/09/22 18:38	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:38	1
Manganese	126		5.00		ug/L		11/08/22 05:33	11/09/22 18:38	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:38	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47635

Lab Sample ID: 680-224844-24

Matrix: Water

Date Collected: 10/31/22 11:32
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	175000		500		ug/L		11/08/22 05:33	11/09/22 00:55	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 00:55	1
Magnesium	3060		500		ug/L		11/08/22 05:33	11/09/22 00:55	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 00:55	1
Sodium	25000		2000		ug/L		11/08/22 05:33	11/09/22 00:55	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:02	2
Cobalt	2.92		2.00		ug/L		11/10/22 14:12	11/14/22 18:02	2
Manganese	118		5.00		ug/L		11/10/22 14:12	11/14/22 18:02	2
Lithium	9.97		5.00		ug/L		11/10/22 14:12	11/14/22 18:02	2
Iron	82.0		50.0		ug/L		11/10/22 14:12	11/14/22 18:02	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	10.0	U	10.0		ug/L		11/10/22 14:07	11/14/22 22:30	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:41	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:41	1
Barium	134		5.00		ug/L		11/08/22 05:33	11/09/22 18:41	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:41	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:41	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:41	1
Cobalt	3.13		0.500		ug/L		11/08/22 05:33	11/09/22 18:41	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:41	1
Manganese	130		5.00		ug/L		11/08/22 05:33	11/09/22 18:41	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:41	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47636

Lab Sample ID: 680-224844-25

Matrix: Water

Date Collected: 10/31/22 12:40
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	138000		500		ug/L		11/08/22 05:33	11/09/22 00:58	1
Iron	402		100		ug/L		11/08/22 05:33	11/09/22 00:58	1
Magnesium	2190		500		ug/L		11/08/22 05:33	11/09/22 00:58	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 00:58	1
Sodium	10000		2000		ug/L		11/08/22 05:33	11/09/22 00:58	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:06	2
Cobalt	3.33		2.00		ug/L		11/10/22 14:12	11/14/22 18:06	2
Manganese	144		5.00		ug/L		11/10/22 14:12	11/14/22 18:06	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:06	2
Iron	338		50.0		ug/L		11/10/22 14:12	11/14/22 18:06	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 22:57	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:43	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:43	1
Barium	184		5.00		ug/L		11/08/22 05:33	11/09/22 18:43	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:43	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:43	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:43	1
Cobalt	3.64		0.500		ug/L		11/08/22 05:33	11/09/22 18:43	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:43	1
Manganese	157		5.00		ug/L		11/08/22 05:33	11/09/22 18:43	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:43	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47637

Lab Sample ID: 680-224844-26

Matrix: Water

Date Collected: 10/31/22 13:42
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	222000		500		ug/L		11/08/22 05:33	11/09/22 01:01	1
Iron	2080		100		ug/L		11/08/22 05:33	11/09/22 01:01	1
Magnesium	7110		500		ug/L		11/08/22 05:33	11/09/22 01:01	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 01:01	1
Sodium	7350		2000		ug/L		11/08/22 05:33	11/09/22 01:01	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:09	2
Cobalt	13.7		2.00		ug/L		11/10/22 14:12	11/14/22 18:09	2
Manganese	664		5.00		ug/L		11/10/22 14:12	11/14/22 18:09	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:09	2
Iron	1970		50.0		ug/L		11/10/22 14:12	11/14/22 18:09	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:01	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:52	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:52	1
Barium	80.4		5.00		ug/L		11/08/22 05:33	11/09/22 18:52	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:52	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:52	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:52	1
Cobalt	14.2		0.500		ug/L		11/08/22 05:33	11/09/22 18:52	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:52	1
Manganese	693		5.00		ug/L		11/08/22 05:33	11/09/22 18:52	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:52	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47638

Lab Sample ID: 680-224844-27

Matrix: Water

Date Collected: 10/31/22 14:32
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		500		ug/L		11/08/22 05:33	11/09/22 01:04	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 01:04	1
Magnesium	3140		500		ug/L		11/08/22 05:33	11/09/22 01:04	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 01:04	1
Sodium	11800		2000		ug/L		11/08/22 05:33	11/09/22 01:04	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:13	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:13	2
Manganese	7.64		5.00		ug/L		11/10/22 14:12	11/14/22 18:13	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:13	2
Iron	50.0	U	50.0		ug/L		11/10/22 14:12	11/14/22 18:13	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:04	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:54	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:54	1
Barium	61.6		5.00		ug/L		11/08/22 05:33	11/09/22 18:54	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:54	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:54	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:54	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:54	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:54	1
Manganese	8.26		5.00		ug/L		11/08/22 05:33	11/09/22 18:54	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:54	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47643

Lab Sample ID: 680-224844-28

Matrix: Water

Date Collected: 11/02/22 09:42
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	13500		500		ug/L		11/08/22 05:33	11/09/22 01:07	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 01:07	1
Magnesium	922		500		ug/L		11/08/22 05:33	11/09/22 01:07	1
Potassium	2270		1000		ug/L		11/08/22 05:33	11/09/22 01:07	1
Sodium	6800		2000		ug/L		11/08/22 05:33	11/09/22 01:07	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:26	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:26	2
Manganese	10.4		5.00		ug/L		11/10/22 14:12	11/14/22 18:26	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:26	2
Iron	50.0	U	50.0		ug/L		11/10/22 14:12	11/14/22 18:26	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:08	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:57	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 18:57	1
Barium	132		5.00		ug/L		11/08/22 05:33	11/09/22 18:57	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:57	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 18:57	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 18:57	1
Cobalt	0.860		0.500		ug/L		11/08/22 05:33	11/09/22 18:57	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 18:57	1
Manganese	8.61		5.00		ug/L		11/08/22 05:33	11/09/22 18:57	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 18:57	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47644

Lab Sample ID: 680-224844-29

Matrix: Water

Date Collected: 11/02/22 09:47
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14400		500		ug/L		11/08/22 05:33	11/09/22 01:10	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 01:10	1
Magnesium	979		500		ug/L		11/08/22 05:33	11/09/22 01:10	1
Potassium	2400		1000		ug/L		11/08/22 05:33	11/09/22 01:10	1
Sodium	7190		2000		ug/L		11/08/22 05:33	11/09/22 01:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:30	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:30	2
Manganese	6.63		5.00		ug/L		11/10/22 14:12	11/14/22 18:30	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:30	2
Iron	50.0	U	50.0		ug/L		11/10/22 14:12	11/14/22 18:30	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:11	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:00	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:00	1
Barium	138		5.00		ug/L		11/08/22 05:33	11/09/22 19:00	1
Beryllium	0.740		0.500		ug/L		11/08/22 05:33	11/09/22 19:00	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:00	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:00	1
Cobalt	0.905		0.500		ug/L		11/08/22 05:33	11/09/22 19:00	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:00	1
Manganese	7.44		5.00		ug/L		11/08/22 05:33	11/09/22 19:00	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:00	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47631

Lab Sample ID: 680-224844-30

Matrix: Water

Date Collected: 11/02/22 11:02
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41600		500		ug/L		11/08/22 05:33	11/09/22 01:13	1
Iron	8980		100		ug/L		11/08/22 05:33	11/09/22 01:13	1
Magnesium	2680		500		ug/L		11/08/22 05:33	11/09/22 01:13	1
Potassium	1720		1000		ug/L		11/08/22 05:33	11/09/22 01:13	1
Sodium	6460		2000		ug/L		11/08/22 05:33	11/09/22 01:13	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:33	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:33	2
Manganese	162		5.00		ug/L		11/10/22 14:12	11/14/22 18:33	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:33	2
Iron	7800		50.0		ug/L		11/10/22 14:12	11/14/22 18:33	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:15	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:02	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:02	1
Barium	170		5.00		ug/L		11/08/22 05:33	11/09/22 19:02	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:02	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:02	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:02	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:02	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:02	1
Manganese	88.3		5.00		ug/L		11/08/22 05:33	11/09/22 19:02	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:02	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47655

Lab Sample ID: 680-224844-31

Matrix: Water

Date Collected: 11/02/22 12:32
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15700		500		ug/L		11/08/22 05:33	11/09/22 01:23	1
Iron	341		100		ug/L		11/08/22 05:33	11/09/22 01:23	1
Magnesium	500	U	500		ug/L		11/08/22 05:33	11/09/22 01:23	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 01:23	1
Sodium	4060		2000		ug/L		11/08/22 05:33	11/09/22 01:23	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:37	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:37	2
Manganese	192		5.00		ug/L		11/10/22 14:12	11/14/22 18:37	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:37	2
Iron	366		50.0		ug/L		11/10/22 14:12	11/14/22 18:37	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:18	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:05	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:05	1
Barium	38.6		5.00		ug/L		11/08/22 05:33	11/09/22 19:05	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:05	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:05	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:05	1
Cobalt	1.19		0.500		ug/L		11/08/22 05:33	11/09/22 19:05	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:05	1
Manganese	198		5.00		ug/L		11/08/22 05:33	11/09/22 19:05	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:05	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47662

Lab Sample ID: 680-224844-32

Matrix: Water

Date Collected: 11/02/22 13:51
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	16100		500		ug/L		11/08/22 05:33	11/09/22 01:26	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 01:26	1
Magnesium	5150		500		ug/L		11/08/22 05:33	11/09/22 01:26	1
Potassium	1230		1000		ug/L		11/08/22 05:33	11/09/22 01:26	1
Sodium	2540		2000		ug/L		11/08/22 05:33	11/09/22 01:26	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	3.84		0.500		ug/L		11/10/22 14:12	11/14/22 18:40	2
Cobalt	30.5		2.00		ug/L		11/10/22 14:12	11/14/22 18:40	2
Manganese	40.5		5.00		ug/L		11/10/22 14:12	11/14/22 18:40	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:40	2
Iron	172		50.0		ug/L		11/10/22 14:12	11/14/22 18:40	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:22	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:08	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:08	1
Barium	48.1		5.00		ug/L		11/08/22 05:33	11/09/22 19:08	1
Beryllium	4.07		0.500		ug/L		11/08/22 05:33	11/09/22 19:08	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:08	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:08	1
Cobalt	32.6		0.500		ug/L		11/08/22 05:33	11/09/22 19:08	1
Lead	2.63		2.50		ug/L		11/08/22 05:33	11/09/22 19:08	1
Manganese	37.9		5.00		ug/L		11/08/22 05:33	11/09/22 19:08	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:08	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47663

Lab Sample ID: 680-224844-33

Matrix: Water

Date Collected: 11/02/22 14:52
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	11500		500		ug/L		11/08/22 05:33	11/09/22 01:29	1
Iron	136		100		ug/L		11/08/22 05:33	11/09/22 01:29	1
Magnesium	617		500		ug/L		11/08/22 05:33	11/09/22 01:29	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 01:29	1
Sodium	6350		2000		ug/L		11/08/22 05:33	11/09/22 01:29	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:43	2
Cobalt	9.36		2.00		ug/L		11/10/22 14:12	11/14/22 18:43	2
Manganese	478		5.00		ug/L		11/10/22 14:12	11/14/22 18:43	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:43	2
Iron	143		50.0		ug/L		11/10/22 14:12	11/14/22 18:43	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:25	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:16	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:16	1
Barium	40.5		5.00		ug/L		11/08/22 05:33	11/09/22 19:16	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:16	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:16	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:16	1
Cobalt	9.60		0.500		ug/L		11/08/22 05:33	11/09/22 19:16	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:16	1
Manganese	517		5.00		ug/L		11/08/22 05:33	11/09/22 19:16	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:16	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47658

Lab Sample ID: 680-224844-34

Matrix: Water

Date Collected: 11/02/22 16:00
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1260000		5000		ug/L		11/08/22 05:33	11/09/22 15:41	10
Iron	3090		100		ug/L		11/08/22 05:33	11/09/22 01:32	1
Magnesium	144000		500		ug/L		11/08/22 05:33	11/09/22 01:32	1
Potassium	8560		1000		ug/L		11/08/22 05:33	11/09/22 01:32	1
Sodium	202000		2000		ug/L		11/08/22 05:33	11/09/22 01:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:47	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:47	2
Manganese	5950		12.5		ug/L		11/10/22 14:12	11/15/22 16:05	5
Lithium	19.2		5.00		ug/L		11/10/22 14:12	11/14/22 18:47	2
Iron	3030		50.0		ug/L		11/10/22 14:12	11/14/22 18:47	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:39	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:19	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:19	1
Barium	60.1		5.00		ug/L		11/08/22 05:33	11/09/22 19:19	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:19	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:19	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:19	1
Cobalt	1.15		0.500		ug/L		11/08/22 05:33	11/09/22 19:19	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:19	1
Manganese	6800		5.00		ug/L		11/08/22 05:33	11/09/22 19:19	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:19	1

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Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47639

Lab Sample ID: 680-224844-35

Matrix: Water

Date Collected: 11/01/22 10:13
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	274000		500		ug/L		11/08/22 05:33	11/09/22 01:35	1
Iron	1750		100		ug/L		11/08/22 05:33	11/09/22 01:35	1
Magnesium	4760		500		ug/L		11/08/22 05:33	11/09/22 01:35	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 01:35	1
Sodium	19900		2000		ug/L		11/08/22 05:33	11/09/22 01:35	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:50	2
Cobalt	4.55		2.00		ug/L		11/10/22 14:12	11/14/22 18:50	2
Manganese	305		5.00		ug/L		11/10/22 14:12	11/14/22 18:50	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 18:50	2
Iron	1490		50.0		ug/L		11/10/22 14:12	11/14/22 18:50	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:42	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:21	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:21	1
Barium	126		5.00		ug/L		11/08/22 05:33	11/09/22 19:21	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:21	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:21	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:21	1
Cobalt	4.20		0.500		ug/L		11/08/22 05:33	11/09/22 19:21	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:21	1
Manganese	305		5.00		ug/L		11/08/22 05:33	11/09/22 19:21	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:21	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47645

Lab Sample ID: 680-224844-36

Matrix: Water

Date Collected: 11/01/22 11:29

Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	393000		500		ug/L		11/08/22 05:33	11/09/22 01:38	1
Iron	9740		100		ug/L		11/08/22 05:33	11/09/22 01:38	1
Magnesium	10200		500		ug/L		11/08/22 05:33	11/09/22 01:38	1
Potassium	4370		1000		ug/L		11/08/22 05:33	11/09/22 01:38	1
Sodium	52100		2000		ug/L		11/08/22 05:33	11/09/22 01:38	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 18:54	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 18:54	2
Manganese	701		5.00		ug/L		11/10/22 14:12	11/14/22 18:54	2
Lithium	27.6		5.00		ug/L		11/10/22 14:12	11/14/22 18:54	2
Iron	8850		50.0		ug/L		11/10/22 14:12	11/14/22 18:54	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:46	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:24	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:24	1
Barium	333		5.00		ug/L		11/08/22 05:33	11/09/22 19:24	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:24	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:24	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:24	1
Cobalt	0.580		0.500		ug/L		11/08/22 05:33	11/09/22 19:24	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:24	1
Manganese	714		5.00		ug/L		11/08/22 05:33	11/09/22 19:24	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:24	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47641

Lab Sample ID: 680-224844-37

Matrix: Water

Date Collected: 11/01/22 12:28
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	273000		500		ug/L		11/08/22 05:33	11/09/22 01:41	1
Iron	494		100		ug/L		11/08/22 05:33	11/09/22 01:41	1
Magnesium	4570		500		ug/L		11/08/22 05:33	11/09/22 01:41	1
Potassium	2330		1000		ug/L		11/08/22 05:33	11/09/22 01:41	1
Sodium	66800		2000		ug/L		11/08/22 05:33	11/09/22 01:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:14	2
Cobalt	56.7		2.00		ug/L		11/10/22 14:16	11/14/22 19:14	2
Manganese	1710		5.00		ug/L		11/10/22 14:16	11/14/22 19:14	2
Lithium	8.26		5.00		ug/L		11/10/22 14:16	11/14/22 19:14	2
Iron	532		50.0		ug/L		11/10/22 14:16	11/14/22 19:14	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:49	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:27	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:27	1
Barium	121		5.00		ug/L		11/08/22 05:33	11/09/22 19:27	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:27	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:27	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:27	1
Cobalt	60.0		0.500		ug/L		11/08/22 05:33	11/09/22 19:27	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:27	1
Manganese	1840		5.00		ug/L		11/08/22 05:33	11/09/22 19:27	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:27	1

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Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47642

Lab Sample ID: 680-224844-38

Matrix: Water

Date Collected: 11/01/22 14:06
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450000		500		ug/L		11/08/22 05:33	11/09/22 01:44	1
Iron	13500		100		ug/L		11/08/22 05:33	11/09/22 01:44	1
Magnesium	8030		500		ug/L		11/08/22 05:33	11/09/22 01:44	1
Potassium	1230		1000		ug/L		11/08/22 05:33	11/09/22 01:44	1
Sodium	70600		2000		ug/L		11/08/22 05:33	11/09/22 01:44	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:28	2
Cobalt	3.16		2.00		ug/L		11/10/22 14:16	11/14/22 19:28	2
Manganese	676		5.00		ug/L		11/10/22 14:16	11/14/22 19:28	2
Lithium	6.35		5.00		ug/L		11/10/22 14:16	11/14/22 19:28	2
Iron	13700		50.0		ug/L		11/10/22 14:16	11/14/22 19:28	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:52	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:30	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:30	1
Barium	58.1		5.00		ug/L		11/08/22 05:33	11/09/22 19:30	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:30	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:30	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:30	1
Cobalt	3.07		0.500		ug/L		11/08/22 05:33	11/09/22 19:30	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:30	1
Manganese	673		5.00		ug/L		11/08/22 05:33	11/09/22 19:30	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:30	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47640

Lab Sample ID: 680-224844-39

Matrix: Water

Date Collected: 11/01/22 15:15
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	164000		500		ug/L		11/08/22 05:33	11/09/22 01:47	1
Iron	100	U	100		ug/L		11/08/22 05:33	11/09/22 01:47	1
Magnesium	7410		500		ug/L		11/08/22 05:33	11/09/22 01:47	1
Potassium	1000	U	1000		ug/L		11/08/22 05:33	11/09/22 01:47	1
Sodium	48100		2000		ug/L		11/08/22 05:33	11/09/22 01:47	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:31	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:16	11/14/22 19:31	2
Manganese	14.5		5.00		ug/L		11/10/22 14:16	11/14/22 19:31	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 19:31	2
Iron	50.0	U	50.0		ug/L		11/10/22 14:16	11/14/22 19:31	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:56	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:32	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:32	1
Barium	106		5.00		ug/L		11/08/22 05:33	11/09/22 19:32	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:32	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:32	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:32	1
Cobalt	0.955		0.500		ug/L		11/08/22 05:33	11/09/22 19:32	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:32	1
Manganese	15.7		5.00		ug/L		11/08/22 05:33	11/09/22 19:32	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:32	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47653

Lab Sample ID: 680-224844-40

Matrix: Water

Date Collected: 11/03/22 10:03
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21800		500		ug/L		11/08/22 05:33	11/09/22 01:50	1
Iron	155		100		ug/L		11/08/22 05:33	11/09/22 01:50	1
Magnesium	913		500		ug/L		11/08/22 05:33	11/09/22 01:50	1
Potassium	1080		1000		ug/L		11/08/22 05:33	11/09/22 01:50	1
Sodium	3870		2000		ug/L		11/08/22 05:33	11/09/22 01:50	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:35	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:16	11/14/22 19:35	2
Manganese	198		5.00		ug/L		11/10/22 14:16	11/14/22 19:35	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 19:35	2
Iron	181		50.0		ug/L		11/10/22 14:16	11/14/22 19:35	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 23:59	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:35	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:33	11/09/22 19:35	1
Barium	77.8		5.00		ug/L		11/08/22 05:33	11/09/22 19:35	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:35	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:33	11/09/22 19:35	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:33	11/09/22 19:35	1
Cobalt	1.24		0.500		ug/L		11/08/22 05:33	11/09/22 19:35	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:33	11/09/22 19:35	1
Manganese	205		5.00		ug/L		11/08/22 05:33	11/09/22 19:35	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:33	11/09/22 19:35	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47654

Lab Sample ID: 680-224844-41

Matrix: Water

Date Collected: 11/03/22 11:04
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	51400		500		ug/L		11/08/22 05:57	11/08/22 18:06	1
Iron	1100		100		ug/L		11/08/22 05:57	11/08/22 18:06	1
Magnesium	1270		500		ug/L		11/08/22 05:57	11/08/22 18:06	1
Potassium	1080		1000		ug/L		11/08/22 05:57	11/08/22 18:06	1
Sodium	3340		2000		ug/L		11/08/22 05:57	11/08/22 18:06	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:38	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:16	11/14/22 19:38	2
Manganese	113		5.00		ug/L		11/10/22 14:16	11/14/22 19:38	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 19:38	2
Iron	437		50.0		ug/L		11/10/22 14:16	11/14/22 19:38	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	10.0	U	10.0		ug/L		11/10/22 14:09	11/14/22 15:28	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:12	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:57	11/08/22 21:12	1
Barium	40.3		5.00		ug/L		11/08/22 05:57	11/08/22 21:12	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:12	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:12	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:12	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:12	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:57	11/08/22 21:12	1
Manganese	114		5.00		ug/L		11/08/22 05:57	11/08/22 21:12	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:57	11/08/22 21:12	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47657

Lab Sample ID: 680-224844-42

Matrix: Water

Date Collected: 11/03/22 12:20
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	6360		500		ug/L		11/08/22 05:57	11/08/22 18:21	1
Iron	886		100		ug/L		11/08/22 05:57	11/08/22 18:21	1
Magnesium	500	U	500		ug/L		11/08/22 05:57	11/08/22 18:21	1
Potassium	1000	U	1000		ug/L		11/08/22 05:57	11/08/22 18:21	1
Sodium	3550		2000		ug/L		11/08/22 05:57	11/08/22 18:21	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:42	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:16	11/14/22 19:42	2
Manganese	43.4		5.00		ug/L		11/10/22 14:16	11/14/22 19:42	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 19:42	2
Iron	931		50.0		ug/L		11/10/22 14:16	11/14/22 19:42	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 15:35	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:20	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:57	11/08/22 21:20	1
Barium	17.2		5.00		ug/L		11/08/22 05:57	11/08/22 21:20	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:20	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:20	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:20	1
Cobalt	2.06		0.500		ug/L		11/08/22 05:57	11/08/22 21:20	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:57	11/08/22 21:20	1
Manganese	47.2		5.00		ug/L		11/08/22 05:57	11/08/22 21:20	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:57	11/08/22 21:20	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47664

Lab Sample ID: 680-224844-43

Matrix: Water

Date Collected: 11/03/22 13:44
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2020		500		ug/L		11/08/22 05:57	11/08/22 18:24	1
Iron	383		100		ug/L		11/08/22 05:57	11/08/22 18:24	1
Magnesium	500	U	500		ug/L		11/08/22 05:57	11/08/22 18:24	1
Potassium	1000	U	1000		ug/L		11/08/22 05:57	11/08/22 18:24	1
Sodium	4040		2000		ug/L		11/08/22 05:57	11/08/22 18:24	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:55	2
Cobalt	12.5		2.00		ug/L		11/10/22 14:16	11/14/22 19:55	2
Manganese	77.3		5.00		ug/L		11/10/22 14:16	11/14/22 19:55	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 19:55	2
Iron	597		50.0		ug/L		11/10/22 14:16	11/14/22 19:55	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 15:39	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:23	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:57	11/08/22 21:23	1
Barium	31.1		5.00		ug/L		11/08/22 05:57	11/08/22 21:23	1
Beryllium	0.750		0.500		ug/L		11/08/22 05:57	11/08/22 21:23	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:23	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:23	1
Cobalt	15.4		0.500		ug/L		11/08/22 05:57	11/08/22 21:23	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:57	11/08/22 21:23	1
Manganese	84.4		5.00		ug/L		11/08/22 05:57	11/08/22 21:23	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:57	11/08/22 21:23	1

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47656

Lab Sample ID: 680-224844-44

Matrix: Water

Date Collected: 11/03/22 14:49
 Date Received: 11/05/22 11:38

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58600		500		ug/L		11/08/22 05:57	11/08/22 18:27	1
Iron	513		100		ug/L		11/08/22 05:57	11/08/22 18:27	1
Magnesium	1520		500		ug/L		11/08/22 05:57	11/08/22 18:27	1
Potassium	1000	U	1000		ug/L		11/08/22 05:57	11/08/22 18:27	1
Sodium	7450		2000		ug/L		11/08/22 05:57	11/08/22 18:27	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 19:59	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:16	11/14/22 19:59	2
Manganese	161		5.00		ug/L		11/10/22 14:16	11/14/22 19:59	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 19:59	2
Iron	235		50.0		ug/L		11/10/22 14:16	11/14/22 19:59	2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 15:42	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:25	1
Arsenic	3.00	U	3.00		ug/L		11/08/22 05:57	11/08/22 21:25	1
Barium	56.6		5.00		ug/L		11/08/22 05:57	11/08/22 21:25	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:25	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 05:57	11/08/22 21:25	1
Chromium	5.00	U	5.00		ug/L		11/08/22 05:57	11/08/22 21:25	1
Cobalt	0.765		0.500		ug/L		11/08/22 05:57	11/08/22 21:25	1
Lead	2.50	U	2.50		ug/L		11/08/22 05:57	11/08/22 21:25	1
Manganese	179		5.00		ug/L		11/08/22 05:57	11/08/22 21:25	1
Thallium	1.00	U	1.00		ug/L		11/08/22 05:57	11/08/22 21:25	1

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-749406/1-A

Matrix: Water

Analysis Batch: 749694

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749406

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Calcium	500	U	500		500		ug/L		11/08/22 04:59	11/08/22 23:03	1
Iron	100	U	100		100		ug/L		11/08/22 04:59	11/08/22 23:03	1
Magnesium	500	U	500		500		ug/L		11/08/22 04:59	11/08/22 23:03	1
Potassium	1000	U	1000		1000		ug/L		11/08/22 04:59	11/08/22 23:03	1
Sodium	2000	U	2000		2000		ug/L		11/08/22 04:59	11/08/22 23:03	1

Lab Sample ID: LCS 680-749406/2-A

Matrix: Water

Analysis Batch: 749694

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749406

Analyte	Sample	Sample	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Calcium	5000		5000	4956		ug/L		99		80 - 120	
Iron	5000		5000	5187		ug/L		104		80 - 120	
Magnesium	5010		5010	4871		ug/L		97		80 - 120	
Potassium	7970		7970	7809		ug/L		98		80 - 120	
Sodium	5050		5050	4886		ug/L		97		80 - 120	

Lab Sample ID: 680-224844-1 MS

Matrix: Water

Analysis Batch: 749694

Client Sample ID: AF47633

Prep Type: Total Recoverable

Prep Batch: 749406

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Calcium	13100		5000	17840		ug/L		94		75 - 125	
Iron	10900		5000	15110		ug/L		84		75 - 125	
Magnesium	647		5010	5510		ug/L		97		75 - 125	
Potassium	1000	U	7970	8392		ug/L		97		75 - 125	
Sodium	5680		5050	10460		ug/L		95		75 - 125	

Lab Sample ID: 680-224844-1 MSD

Matrix: Water

Analysis Batch: 749694

Client Sample ID: AF47633

Prep Type: Total Recoverable

Prep Batch: 749406

Analyte	Sample	Sample	Spike	MSD	MSD	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Calcium	13100		5000	17490		ug/L		87		75 - 125	2
Iron	10900		5000	14800		ug/L		78		75 - 125	2
Magnesium	647		5010	5393		ug/L		95		75 - 125	2
Potassium	1000	U	7970	8193		ug/L		95		75 - 125	2
Sodium	5680		5050	10140		ug/L		88		75 - 125	3

Lab Sample ID: MB 680-749408/1-A

Matrix: Water

Analysis Batch: 749694

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749408

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Calcium	500	U	500		500		ug/L		11/08/22 05:33	11/09/22 00:28	1
Iron	100	U	100		100		ug/L		11/08/22 05:33	11/09/22 00:28	1
Magnesium	500	U	500		500		ug/L		11/08/22 05:33	11/09/22 00:28	1
Potassium	1000	U	1000		1000		ug/L		11/08/22 05:33	11/09/22 00:28	1
Sodium	2000	U	2000		2000		ug/L		11/08/22 05:33	11/09/22 00:28	1

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

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

Lab Sample ID: LCS 680-749408/2-A

Matrix: Water

Analysis Batch: 749694

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749408

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Calcium	5000	4869		ug/L		97	80 - 120
Iron	5000	4976		ug/L		100	80 - 120
Magnesium	5010	4857		ug/L		97	80 - 120
Potassium	7970	7756		ug/L		97	80 - 120
Sodium	5050	4839		ug/L		96	80 - 120

Lab Sample ID: 680-224844-21 MS

Matrix: Water

Analysis Batch: 749694

Client Sample ID: AF47660

Prep Type: Total Recoverable

Prep Batch: 749408

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Calcium	79400		5000	81900	4	ug/L		50	75 - 125
Iron	2250		5000	7065		ug/L		96	75 - 125
Magnesium	2700		5010	7402		ug/L		94	75 - 125
Potassium	1000	U	7970	8745		ug/L		98	75 - 125
Sodium	14100		5050	18390		ug/L		86	75 - 125

Lab Sample ID: 680-224844-21 MSD

Matrix: Water

Analysis Batch: 749694

Client Sample ID: AF47660

Prep Type: Total Recoverable

Prep Batch: 749408

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	79400		5000	82320	4	ug/L		58	75 - 125	1	20
Iron	2250		5000	7121		ug/L		98	75 - 125	1	20
Magnesium	2700		5010	7413		ug/L		94	75 - 125	0	20
Potassium	1000	U	7970	8717		ug/L		98	75 - 125	0	20
Sodium	14100		5050	18470		ug/L		87	75 - 125	0	20

Lab Sample ID: MB 680-749410/1-A

Matrix: Water

Analysis Batch: 749694

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749410

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	500	U	500		ug/L		11/08/22 05:57	11/08/22 18:00	1
Iron	100	U	100		ug/L		11/08/22 05:57	11/08/22 18:00	1
Magnesium	500	U	500		ug/L		11/08/22 05:57	11/08/22 18:00	1
Potassium	1000	U	1000		ug/L		11/08/22 05:57	11/08/22 18:00	1
Sodium	2000	U	2000		ug/L		11/08/22 05:57	11/08/22 18:00	1

Lab Sample ID: LCS 680-749410/2-A

Matrix: Water

Analysis Batch: 749694

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749410

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Calcium	5000	4648		ug/L		93	80 - 120
Iron	5000	4705		ug/L		94	80 - 120
Magnesium	5010	4658		ug/L		93	80 - 120
Potassium	7970	7446		ug/L		93	80 - 120
Sodium	5050	4700		ug/L		93	80 - 120

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QC Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

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

Lab Sample ID: 680-224844-41 MS

Matrix: Water

Analysis Batch: 749694

Client Sample ID: AF47654

Prep Type: Total Recoverable

Prep Batch: 749410

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Calcium	51400		5000	56750	4	ug/L		106	75 - 125
Iron	1100		5000	5982		ug/L		98	75 - 125
Magnesium	1270		5010	6074		ug/L		96	75 - 125
Potassium	1080		7970	8988		ug/L		99	75 - 125
Sodium	3340		5050	8173		ug/L		96	75 - 125

Lab Sample ID: 680-224844-41 MSD

Matrix: Water

Analysis Batch: 749694

Client Sample ID: AF47654

Prep Type: Total Recoverable

Prep Batch: 749410

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	51400		5000	52930	4	ug/L		30	75 - 125	7	20
Iron	1100		5000	5503		ug/L		88	75 - 125	8	20
Magnesium	1270		5010	5539		ug/L		85	75 - 125	9	20
Potassium	1080		7970	8244		ug/L		90	75 - 125	9	20
Sodium	3340		5050	7557		ug/L		84	75 - 125	8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-589630/1-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 589630

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:12	11/14/22 17:11	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:12	11/14/22 17:11	2
Manganese	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 17:11	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:12	11/14/22 17:11	2
Iron	50.0	U	50.0		ug/L		11/10/22 14:12	11/14/22 17:11	2

Lab Sample ID: LCS 160-589630/2-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 589630

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added						Limits
Beryllium	100	97.05		ug/L		97	80 - 120
Cobalt	1000	975.0		ug/L		98	80 - 120
Manganese	1000	970.5		ug/L		97	80 - 120
Lithium	100	98.38		ug/L		98	80 - 120
Iron	10000	9981		ug/L		100	80 - 120

Lab Sample ID: MB 160-589631/1-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 589631

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.500	U	0.500		ug/L		11/10/22 14:16	11/14/22 18:57	2
Cobalt	2.00	U	2.00		ug/L		11/10/22 14:16	11/14/22 18:57	2
Manganese	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 18:57	2
Lithium	5.00	U	5.00		ug/L		11/10/22 14:16	11/14/22 18:57	2

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

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

Lab Sample ID: MB 160-589631/1-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 589631

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	50.0	U	50.0		ug/L		11/10/22 14:16	11/14/22 18:57	2

Lab Sample ID: LCS 160-589631/2-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 589631

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Beryllium	100	96.02		ug/L		96	80 - 120	
Cobalt	1000	982.7		ug/L		98	80 - 120	
Manganese	1000	973.0		ug/L		97	80 - 120	
Lithium	100	96.85		ug/L		97	80 - 120	
Iron	10000	9867		ug/L		99	80 - 120	

Lab Sample ID: 680-224844-1 MS

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47633

Prep Type: Dissolved

Prep Batch: 589629

Analyte	Sample		Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Added	Result	Qualifier	D	%Rec	Limits
Beryllium	0.500	U	100	98.80		ug/L		98	75 - 125
Cobalt	3.42		1000	959.5		ug/L		96	75 - 125
Manganese	13.0		1000	939.4		ug/L		93	75 - 125
Lithium	6.06		100	106.6		ug/L		101	75 - 125
Iron	10900		10000	20000		ug/L		90	75 - 125

Lab Sample ID: 680-224844-1 MSD

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47633

Prep Type: Dissolved

Prep Batch: 589629

Analyte	Sample		Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result	Qualifier	D	%Rec	Limits	RPD	Limit
Beryllium	0.500	U	100	100.1		ug/L		100	75 - 125	1	20
Cobalt	3.42		1000	978.5		ug/L		98	75 - 125	2	20
Manganese	13.0		1000	990.0		ug/L		98	75 - 125	5	20
Lithium	6.06		100	106.6		ug/L		101	75 - 125	0	20
Iron	10900		10000	20530		ug/L		96	75 - 125	3	20

Lab Sample ID: 680-224844-17 MS

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47624

Prep Type: Dissolved

Prep Batch: 589630

Analyte	Sample		Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Added	Result	Qualifier	D	%Rec	Limits
Beryllium	4.57		100	103.9		ug/L		99	75 - 125
Cobalt	14.3		1000	973.4		ug/L		96	75 - 125
Manganese	84.2		1000	1029		ug/L		94	75 - 125
Lithium	12.4		100	113.3		ug/L		101	75 - 125
Iron	118000		10000	126600	4	ug/L		88	75 - 125

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

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

Lab Sample ID: 680-224844-17 MSD

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47624

Prep Type: Dissolved

Prep Batch: 589630

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Beryllium	4.57		100	102.0		ug/L		97	75 - 125	2	20	
Cobalt	14.3		1000	971.3		ug/L		96	75 - 125	0	20	
Manganese	84.2		1000	1041		ug/L		96	75 - 125	1	20	
Lithium	12.4		100	111.0		ug/L		99	75 - 125	2	20	
Iron	118000		10000	127400	4	ug/L		96	75 - 125	1	20	

Lab Sample ID: 680-224844-37 MS

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47641

Prep Type: Dissolved

Prep Batch: 589631

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Beryllium	0.500	U	100	99.36		ug/L		99	75 - 125			
Cobalt	56.7		1000	984.6		ug/L		93	75 - 125			
Manganese	1710		1000	2607		ug/L		90	75 - 125			
Lithium	8.26		100	108.8		ug/L		101	75 - 125			
Iron	532		10000	10060		ug/L		95	75 - 125			

Lab Sample ID: 680-224844-37 MSD

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47641

Prep Type: Dissolved

Prep Batch: 589631

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Beryllium	0.500	U	100	98.85		ug/L		99	75 - 125	1	20	
Cobalt	56.7		1000	998.9		ug/L		94	75 - 125	1	20	
Manganese	1710		1000	2619		ug/L		91	75 - 125	0	20	
Lithium	8.26		100	105.4		ug/L		97	75 - 125	3	20	
Iron	532		10000	10130		ug/L		96	75 - 125	1	20	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 160-589627/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 590073

Prep Batch: 589627

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	5.00	U		5.00	ug/L		11/10/22 14:04	11/14/22 20:13	2

Lab Sample ID: LCS 160-589627/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 590073

Prep Batch: 589627

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Selenium	500	491.3		ug/L		98	80 - 120

Lab Sample ID: 680-224844-2 MS

Client Sample ID: AF47632

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 590073

Prep Batch: 589627

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Selenium	10.0	U	1000	985.8		ug/L		99	75 - 125			

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QC Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 680-224844-2 MSD

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47632

Prep Type: Total/NA

Prep Batch: 589627

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	RPD	Limit	
	Result	Qualifier	Added	Result	Qualifier			%Rec			
Selenium	10.0	U	1000	1024		ug/L		102	75 - 125	4	20

Lab Sample ID: MB 160-589628/1-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589628

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	5.00	U	5.00		ug/L		11/10/22 14:07	11/14/22 22:13	2

Lab Sample ID: LCS 160-589628/2-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 589628

Analyte	Sample	Sample	Spike	LCS	LCS	Unit	D	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec		
Selenium	10.0	U	500	490.1		ug/L		98	80 - 120	

Lab Sample ID: 680-224844-24 MS

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47635

Prep Type: Total/NA

Prep Batch: 589628

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec		
Selenium	10.0	U	1000	924.1		ug/L		92	75 - 125	

Lab Sample ID: 680-224844-24 MSD

Matrix: Water

Analysis Batch: 590073

Client Sample ID: AF47635

Prep Type: Total/NA

Prep Batch: 589628

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	RPD	Limit	
	Result	Qualifier	Added	Result	Qualifier			%Rec			
Selenium	10.0	U	1000	969.2		ug/L		97	75 - 125	5	20

Lab Sample ID: MB 160-589629/1-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589629

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Selenium	5.00	U	5.00		ug/L		11/10/22 14:09	11/14/22 15:11	2	

Lab Sample ID: LCS 160-589629/2-A

Matrix: Water

Analysis Batch: 590073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 589629

Analyte	Sample	Sample	Spike	LCS	LCS	Unit	D	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec		
Selenium	10.0	U	500	479.0		ug/L		96	80 - 120	

Lab Sample ID: MB 680-749407/1-A

Matrix: Water

Analysis Batch: 749990

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749407

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Antimony	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 16:55	1	

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-749407/1-A

Matrix: Water

Analysis Batch: 749990

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749407

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		11/08/22 04:59	11/09/22 16:55	1
Barium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 16:55	1
Beryllium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 16:55	1
Cadmium	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 16:55	1
Chromium	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 16:55	1
Cobalt	0.500	U	0.500		ug/L		11/08/22 04:59	11/09/22 16:55	1
Lead	2.50	U	2.50		ug/L		11/08/22 04:59	11/09/22 16:55	1
Manganese	5.00	U	5.00		ug/L		11/08/22 04:59	11/09/22 16:55	1
Thallium	1.00	U	1.00		ug/L		11/08/22 04:59	11/09/22 16:55	1

Lab Sample ID: LCS 680-749407/2-A

Matrix: Water

Analysis Batch: 749990

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749407

LCS LCS

Analyte	Spike Added	Result	Qualifier	Unit	D	%Rec	%Rec
						Limits	
Antimony	50.0	51.31		ug/L		103	80 - 120
Arsenic	100	104.3		ug/L		104	80 - 120
Barium	100	104.2		ug/L		104	80 - 120
Beryllium	50.0	49.48		ug/L		99	80 - 120
Cadmium	50.0	50.25		ug/L		101	80 - 120
Chromium	100	106.5		ug/L		107	80 - 120
Cobalt	50.0	51.58		ug/L		103	80 - 120
Lead	505	508.7		ug/L		101	80 - 120
Manganese	400	407.6		ug/L		102	80 - 120
Thallium	50.0	50.52		ug/L		101	80 - 120

Lab Sample ID: 680-224844-1 MS

Matrix: Water

Analysis Batch: 749990

Client Sample ID: AF47633

Prep Type: Total Recoverable

Prep Batch: 749407

MS MS

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec
								Limits	
Antimony	5.00	U	50.0	52.67		ug/L		105	75 - 125
Arsenic	3.00	U	100	107.2		ug/L		105	75 - 125
Barium	85.1		100	191.6		ug/L		106	75 - 125
Beryllium	0.500	U	50.0	51.72		ug/L		103	75 - 125
Cadmium	0.500	U	50.0	52.10		ug/L		104	75 - 125
Chromium	5.00	U	100	109.3		ug/L		109	75 - 125
Cobalt	1.89		50.0	53.72		ug/L		104	75 - 125
Lead	2.50	U	505	525.8		ug/L		104	75 - 125
Manganese	12.9		400	426.3		ug/L		103	75 - 125
Thallium	1.00	U	50.0	51.86		ug/L		104	75 - 125

Lab Sample ID: 680-224844-1 MSD

Matrix: Water

Analysis Batch: 749990

Client Sample ID: AF47633

Prep Type: Total Recoverable

Prep Batch: 749407

MSD MSD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit	
								Limits	RPD		
Antimony	5.00	U	50.0	54.16		ug/L		108	75 - 125	3	20
Arsenic	3.00	U	100	110.6		ug/L		108	75 - 125	3	20

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-224844-1 MSD

Matrix: Water

Analysis Batch: 749990

Client Sample ID: AF47633

Prep Type: Total Recoverable

Prep Batch: 749407

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Barium	85.1		100	195.2		ug/L	110	75 - 125	2	20		
Beryllium	0.500	U	50.0	51.77		ug/L	103	75 - 125	0	20		
Cadmium	0.500	U	50.0	53.92		ug/L	108	75 - 125	3	20		
Chromium	5.00	U	100	112.0		ug/L	112	75 - 125	2	20		
Cobalt	1.89		50.0	55.08		ug/L	106	75 - 125	3	20		
Lead	2.50	U	505	537.3		ug/L	106	75 - 125	2	20		
Manganese	12.9		400	435.8		ug/L	106	75 - 125	2	20		
Thallium	1.00	U	50.0	53.77		ug/L	108	75 - 125	4	20		

Lab Sample ID: MB 680-749409/1-A

Matrix: Water

Analysis Batch: 749990

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749409

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L	11/08/22 05:33	11/09/22 18:22		1
Arsenic	3.00	U	3.00		ug/L	11/08/22 05:33	11/09/22 18:22		1
Barium	5.00	U	5.00		ug/L	11/08/22 05:33	11/09/22 18:22		1
Beryllium	0.500	U	0.500		ug/L	11/08/22 05:33	11/09/22 18:22		1
Cadmium	0.500	U	0.500		ug/L	11/08/22 05:33	11/09/22 18:22		1
Chromium	5.00	U	5.00		ug/L	11/08/22 05:33	11/09/22 18:22		1
Cobalt	0.500	U	0.500		ug/L	11/08/22 05:33	11/09/22 18:22		1
Lead	2.50	U	2.50		ug/L	11/08/22 05:33	11/09/22 18:22		1
Manganese	5.00	U	5.00		ug/L	11/08/22 05:33	11/09/22 18:22		1
Thallium	1.00	U	1.00		ug/L	11/08/22 05:33	11/09/22 18:22		1

Lab Sample ID: LCS 680-749409/2-A

Matrix: Water

Analysis Batch: 749990

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749409

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Antimony	50.0	52.63		ug/L	105	80 - 120	
Arsenic	100	103.3		ug/L	103	80 - 120	
Barium	100	101.4		ug/L	101	80 - 120	
Beryllium	50.0	46.53		ug/L	93	80 - 120	
Cadmium	50.0	50.97		ug/L	102	80 - 120	
Chromium	100	106.3		ug/L	106	80 - 120	
Cobalt	50.0	50.67		ug/L	101	80 - 120	
Lead	505	505.1		ug/L	100	80 - 120	
Manganese	400	404.7		ug/L	101	80 - 120	
Thallium	50.0	50.18		ug/L	100	80 - 120	

Lab Sample ID: 680-224844-21 MS

Matrix: Water

Analysis Batch: 749990

Client Sample ID: AF47660

Prep Type: Total Recoverable

Prep Batch: 749409

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Antimony	5.00	U	50.0	53.35		ug/L	107	75 - 125	
Arsenic	3.00	U	100	108.4		ug/L	108	75 - 125	
Barium	191		100	291.4		ug/L	100	75 - 125	

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-224844-21 MS

Matrix: Water

Analysis Batch: 749990

Client Sample ID: AF47660

Prep Type: Total Recoverable

Prep Batch: 749409

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Beryllium	0.500	U	50.0	50.26		ug/L	101	75 - 125	
Cadmium	0.500	U	50.0	52.36		ug/L	105	75 - 125	
Chromium	5.00	U	100	108.9		ug/L	109	75 - 125	
Cobalt	7.45		50.0	58.63		ug/L	102	75 - 125	
Lead	2.50	U	505	526.4		ug/L	104	75 - 125	
Manganese	104		400	503.7		ug/L	100	75 - 125	
Thallium	1.00	U	50.0	53.02		ug/L	106	75 - 125	

Lab Sample ID: 680-224844-21 MSD

Matrix: Water

Analysis Batch: 749990

Client Sample ID: AF47660

Prep Type: Total Recoverable

Prep Batch: 749409

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Antimony	5.00	U	50.0	56.36		ug/L	113	75 - 125		5	20	12
Arsenic	3.00	U	100	112.7		ug/L	113	75 - 125		4	20	13
Barium	191		100	307.1		ug/L	116	75 - 125		5	20	14
Beryllium	0.500	U	50.0	52.84		ug/L	106	75 - 125		5	20	15
Cadmium	0.500	U	50.0	54.86		ug/L	110	75 - 125		5	20	
Chromium	5.00	U	100	115.9		ug/L	116	75 - 125		6	20	
Cobalt	7.45		50.0	61.14		ug/L	107	75 - 125		4	20	
Lead	2.50	U	505	553.2		ug/L	109	75 - 125		5	20	
Manganese	104		400	531.4		ug/L	107	75 - 125		5	20	
Thallium	1.00	U	50.0	56.03		ug/L	112	75 - 125		6	20	

Lab Sample ID: MB 680-749411/1-A

Matrix: Water

Analysis Batch: 749688

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 749411

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	5.00	U	5.00		ug/L	11/08/22 05:57	11/08/22 21:06		1
Arsenic	3.00	U	3.00		ug/L	11/08/22 05:57	11/08/22 21:06		1
Barium	5.00	U	5.00		ug/L	11/08/22 05:57	11/08/22 21:06		1
Beryllium	0.500	U	0.500		ug/L	11/08/22 05:57	11/08/22 21:06		1
Cadmium	0.500	U	0.500		ug/L	11/08/22 05:57	11/08/22 21:06		1
Chromium	5.00	U	5.00		ug/L	11/08/22 05:57	11/08/22 21:06		1
Cobalt	0.500	U	0.500		ug/L	11/08/22 05:57	11/08/22 21:06		1
Lead	2.50	U	2.50		ug/L	11/08/22 05:57	11/08/22 21:06		1
Manganese	5.00	U	5.00		ug/L	11/08/22 05:57	11/08/22 21:06		1
Thallium	1.00	U	1.00		ug/L	11/08/22 05:57	11/08/22 21:06		1

Lab Sample ID: LCS 680-749411/2-A

Matrix: Water

Analysis Batch: 749688

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749411

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Antimony	50.0	51.66		ug/L	103	80 - 120	
Arsenic	100	101.7		ug/L	102	80 - 120	
Barium	100	101.4		ug/L	101	80 - 120	
Beryllium	50.0	49.97		ug/L	100	80 - 120	

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QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-749411/2-A

Matrix: Water

Analysis Batch: 749688

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 749411

Analyte		Spike	LCS	LCS			%Rec	Limits
		Added	Result	Qualifier	Unit	D	%Rec	Limits
Cadmium		50.0	51.72		ug/L		103	80 - 120
Chromium		100	105.6		ug/L		106	80 - 120
Cobalt		50.0	52.84		ug/L		106	80 - 120
Lead		505	493.0		ug/L		98	80 - 120
Manganese		400	393.6		ug/L		98	80 - 120
Thallium		50.0	48.78		ug/L		98	80 - 120

Lab Sample ID: 680-224844-41 MS

Matrix: Water

Analysis Batch: 749688

Client Sample ID: AF47654

Prep Type: Total Recoverable

Prep Batch: 749411

Analyte	Sample	Sample	Spike	MS	MS		%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	5.00	U	50.0	53.25		ug/L		107	75 - 125
Arsenic	3.00	U	100	104.9		ug/L		105	75 - 125
Barium	40.3		100	140.1		ug/L		100	75 - 125
Beryllium	0.500	U	50.0	53.58		ug/L		107	75 - 125
Cadmium	0.500	U	50.0	52.08		ug/L		104	75 - 125
Chromium	5.00	U	100	108.4		ug/L		108	75 - 125
Cobalt	0.500	U	50.0	54.23		ug/L		109	75 - 125
Lead	2.50	U	505	514.3		ug/L		102	75 - 125
Manganese	114		400	517.9		ug/L		101	75 - 125
Thallium	1.00	U	50.0	51.44		ug/L		103	75 - 125

Lab Sample ID: 680-224844-41 MSD

Matrix: Water

Analysis Batch: 749688

Client Sample ID: AF47654

Prep Type: Total Recoverable

Prep Batch: 749411

Analyte	Sample	Sample	Spike	MSD	MSD		%Rec	RPD			
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	5.00	U	50.0	50.44		ug/L		101	75 - 125	5	20
Arsenic	3.00	U	100	100.8		ug/L		101	75 - 125	4	20
Barium	40.3		100	135.4		ug/L		95	75 - 125	3	20
Beryllium	0.500	U	50.0	50.64		ug/L		101	75 - 125	6	20
Cadmium	0.500	U	50.0	49.89		ug/L		100	75 - 125	4	20
Chromium	5.00	U	100	103.1		ug/L		103	75 - 125	5	20
Cobalt	0.500	U	50.0	51.72		ug/L		104	75 - 125	5	20
Lead	2.50	U	505	485.0		ug/L		96	75 - 125	6	20
Manganese	114		400	495.2		ug/L		95	75 - 125	4	20
Thallium	1.00	U	50.0	48.73		ug/L		97	75 - 125	5	20

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals

Prep Batch: 589627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Total/NA	Water	3010A	1
680-224844-2	AF47632	Total/NA	Water	3010A	2
680-224844-3	AF47651	Total/NA	Water	3010A	3
680-224844-4	AF47650	Total/NA	Water	3010A	4
680-224844-5	AF47649	Total/NA	Water	3010A	5
680-224844-6	AF47647	Total/NA	Water	3010A	6
680-224844-7	AF47648	Total/NA	Water	3010A	7
680-224844-8	AF47652	Total/NA	Water	3010A	8
680-224844-9	AF47646	Total/NA	Water	3010A	9
680-224844-10	AF47621	Total/NA	Water	3010A	10
680-224844-11	AF47630	Total/NA	Water	3010A	11
680-224844-12	AF47628	Total/NA	Water	3010A	12
680-224844-13	AF47629	Total/NA	Water	3010A	13
680-224844-14	AF47627	Total/NA	Water	3010A	14
680-224844-15	AF47626	Total/NA	Water	3010A	15
680-224844-16	AF47625	Total/NA	Water	3010A	16
680-224844-17	AF47624	Total/NA	Water	3010A	17
680-224844-18	AF47623	Total/NA	Water	3010A	18
680-224844-19	AF47622	Total/NA	Water	3010A	19
680-224844-20	AF47659	Total/NA	Water	3010A	20
MB 160-589627/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-589627/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-224844-2 MS	AF47632	Total/NA	Water	3010A	
680-224844-2 MSD	AF47632	Total/NA	Water	3010A	

Prep Batch: 589628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-21	AF47660	Total/NA	Water	3010A	1
680-224844-22	AF47661	Total/NA	Water	3010A	2
680-224844-23	AF47634	Total/NA	Water	3010A	3
680-224844-24	AF47635	Total/NA	Water	3010A	4
680-224844-25	AF47636	Total/NA	Water	3010A	5
680-224844-26	AF47637	Total/NA	Water	3010A	6
680-224844-27	AF47638	Total/NA	Water	3010A	7
680-224844-28	AF47643	Total/NA	Water	3010A	8
680-224844-29	AF47644	Total/NA	Water	3010A	9
680-224844-30	AF47631	Total/NA	Water	3010A	10
680-224844-31	AF47655	Total/NA	Water	3010A	11
680-224844-32	AF47662	Total/NA	Water	3010A	12
680-224844-33	AF47663	Total/NA	Water	3010A	13
680-224844-34	AF47658	Total/NA	Water	3010A	14
680-224844-35	AF47639	Total/NA	Water	3010A	15
680-224844-36	AF47645	Total/NA	Water	3010A	16
680-224844-37	AF47641	Total/NA	Water	3010A	17
680-224844-38	AF47642	Total/NA	Water	3010A	18
680-224844-39	AF47640	Total/NA	Water	3010A	19
680-224844-40	AF47653	Total/NA	Water	3010A	20
MB 160-589628/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-589628/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-224844-24 MS	AF47635	Total/NA	Water	3010A	
680-224844-24 MSD	AF47635	Total/NA	Water	3010A	

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals

Prep Batch: 589629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Dissolved	Water	3005A	1
680-224844-2	AF47632	Dissolved	Water	3005A	2
680-224844-3	AF47651	Dissolved	Water	3005A	3
680-224844-4	AF47650	Dissolved	Water	3005A	4
680-224844-5	AF47649	Dissolved	Water	3005A	5
680-224844-6	AF47647	Dissolved	Water	3005A	6
680-224844-7	AF47648	Dissolved	Water	3005A	7
680-224844-8	AF47652	Dissolved	Water	3005A	8
680-224844-9	AF47646	Dissolved	Water	3005A	9
680-224844-10	AF47621	Dissolved	Water	3005A	10
680-224844-11	AF47630	Dissolved	Water	3005A	11
680-224844-12	AF47628	Dissolved	Water	3005A	12
680-224844-13	AF47629	Dissolved	Water	3005A	13
680-224844-14	AF47627	Dissolved	Water	3005A	14
680-224844-15	AF47626	Dissolved	Water	3005A	15
680-224844-16	AF47625	Dissolved	Water	3005A	
680-224844-41	AF47654	Total/NA	Water	3010A	
680-224844-42	AF47657	Total/NA	Water	3010A	
680-224844-43	AF47664	Total/NA	Water	3010A	
680-224844-44	AF47656	Total/NA	Water	3010A	
MB 160-589629/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-589629/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-224844-1 MS	AF47633	Dissolved	Water	3005A	
680-224844-1 MSD	AF47633	Dissolved	Water	3005A	

Prep Batch: 589630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-17	AF47624	Dissolved	Water	3005A	1
680-224844-18	AF47623	Dissolved	Water	3005A	2
680-224844-19	AF47622	Dissolved	Water	3005A	3
680-224844-20	AF47659	Dissolved	Water	3005A	4
680-224844-21	AF47660	Dissolved	Water	3005A	5
680-224844-22	AF47661	Dissolved	Water	3005A	6
680-224844-23	AF47634	Dissolved	Water	3005A	7
680-224844-24	AF47635	Dissolved	Water	3005A	8
680-224844-25	AF47636	Dissolved	Water	3005A	9
680-224844-26	AF47637	Dissolved	Water	3005A	10
680-224844-27	AF47638	Dissolved	Water	3005A	11
680-224844-28	AF47643	Dissolved	Water	3005A	12
680-224844-29	AF47644	Dissolved	Water	3005A	13
680-224844-30	AF47631	Dissolved	Water	3005A	14
680-224844-31	AF47655	Dissolved	Water	3005A	15
680-224844-32	AF47662	Dissolved	Water	3005A	
680-224844-33	AF47663	Dissolved	Water	3005A	
680-224844-34	AF47658	Dissolved	Water	3005A	
680-224844-35	AF47639	Dissolved	Water	3005A	
680-224844-36	AF47645	Dissolved	Water	3005A	
MB 160-589630/1-A	Method Blank	Total Recoverable	Water	3010A	
LCS 160-589630/2-A	Lab Control Sample	Total Recoverable	Water	3010A	
680-224844-17 MS	AF47624	Dissolved	Water	3005A	
680-224844-17 MSD	AF47624	Dissolved	Water	3005A	

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals

Prep Batch: 589631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-37	AF47641	Dissolved	Water	3005A	
680-224844-38	AF47642	Dissolved	Water	3005A	
680-224844-39	AF47640	Dissolved	Water	3005A	
680-224844-40	AF47653	Dissolved	Water	3005A	
680-224844-41	AF47654	Dissolved	Water	3005A	
680-224844-42	AF47657	Dissolved	Water	3005A	
680-224844-43	AF47664	Dissolved	Water	3005A	
680-224844-44	AF47656	Dissolved	Water	3005A	
MB 160-589631/1-A	Method Blank	Total Recoverable	Water	3010A	
LCS 160-589631/2-A	Lab Control Sample	Total Recoverable	Water	3010A	
680-224844-37 MS	AF47641	Dissolved	Water	3005A	
680-224844-37 MSD	AF47641	Dissolved	Water	3005A	

Analysis Batch: 590073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Dissolved	Water	6020A	589629
680-224844-1	AF47633	Total/NA	Water	6020B	589627
680-224844-2	AF47632	Dissolved	Water	6020A	589629
680-224844-2	AF47632	Total/NA	Water	6020B	589627
680-224844-3	AF47651	Dissolved	Water	6020A	589629
680-224844-3	AF47651	Total/NA	Water	6020B	589627
680-224844-4	AF47650	Dissolved	Water	6020A	589629
680-224844-4	AF47650	Total/NA	Water	6020B	589627
680-224844-5	AF47649	Dissolved	Water	6020A	589629
680-224844-5	AF47649	Total/NA	Water	6020B	589627
680-224844-6	AF47647	Dissolved	Water	6020A	589629
680-224844-6	AF47647	Total/NA	Water	6020B	589627
680-224844-7	AF47648	Dissolved	Water	6020A	589629
680-224844-7	AF47648	Total/NA	Water	6020B	589627
680-224844-8	AF47652	Dissolved	Water	6020A	589629
680-224844-8	AF47652	Total/NA	Water	6020B	589627
680-224844-9	AF47646	Dissolved	Water	6020A	589629
680-224844-9	AF47646	Total/NA	Water	6020B	589627
680-224844-10	AF47621	Dissolved	Water	6020A	589629
680-224844-10	AF47621	Total/NA	Water	6020B	589627
680-224844-11	AF47630	Dissolved	Water	6020A	589629
680-224844-11	AF47630	Total/NA	Water	6020B	589627
680-224844-12	AF47628	Dissolved	Water	6020A	589629
680-224844-12	AF47628	Total/NA	Water	6020B	589627
680-224844-13	AF47629	Dissolved	Water	6020A	589629
680-224844-13	AF47629	Total/NA	Water	6020B	589627
680-224844-14	AF47627	Dissolved	Water	6020A	589629
680-224844-14	AF47627	Total/NA	Water	6020B	589627
680-224844-15	AF47626	Dissolved	Water	6020A	589629
680-224844-15	AF47626	Total/NA	Water	6020B	589627
680-224844-16	AF47625	Dissolved	Water	6020A	589629
680-224844-16	AF47625	Total/NA	Water	6020B	589627
680-224844-17	AF47624	Dissolved	Water	6020A	589630
680-224844-17	AF47624	Total/NA	Water	6020B	589627
680-224844-18	AF47623	Dissolved	Water	6020A	589630
680-224844-18	AF47623	Total/NA	Water	6020B	589627

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Analysis Batch: 590073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-19	AF47622	Dissolved	Water	6020A	589630
680-224844-19	AF47622	Total/NA	Water	6020B	589627
680-224844-20	AF47659	Dissolved	Water	6020A	589630
680-224844-20	AF47659	Total/NA	Water	6020B	589627
680-224844-21	AF47660	Dissolved	Water	6020A	589630
680-224844-21	AF47660	Total/NA	Water	6020B	589628
680-224844-22	AF47661	Dissolved	Water	6020A	589630
680-224844-22	AF47661	Total/NA	Water	6020B	589628
680-224844-23	AF47634	Dissolved	Water	6020A	589630
680-224844-23	AF47634	Total/NA	Water	6020B	589628
680-224844-24	AF47635	Dissolved	Water	6020A	589630
680-224844-24	AF47635	Total/NA	Water	6020B	589628
680-224844-25	AF47636	Dissolved	Water	6020A	589630
680-224844-25	AF47636	Total/NA	Water	6020B	589628
680-224844-26	AF47637	Dissolved	Water	6020A	589630
680-224844-26	AF47637	Total/NA	Water	6020B	589628
680-224844-27	AF47638	Dissolved	Water	6020A	589630
680-224844-27	AF47638	Total/NA	Water	6020B	589628
680-224844-28	AF47643	Dissolved	Water	6020A	589630
680-224844-28	AF47643	Total/NA	Water	6020B	589628
680-224844-29	AF47644	Dissolved	Water	6020A	589630
680-224844-29	AF47644	Total/NA	Water	6020B	589628
680-224844-30	AF47631	Dissolved	Water	6020A	589630
680-224844-30	AF47631	Total/NA	Water	6020B	589628
680-224844-31	AF47655	Dissolved	Water	6020A	589630
680-224844-31	AF47655	Total/NA	Water	6020B	589628
680-224844-32	AF47662	Dissolved	Water	6020A	589630
680-224844-32	AF47662	Total/NA	Water	6020B	589628
680-224844-33	AF47663	Dissolved	Water	6020A	589630
680-224844-33	AF47663	Total/NA	Water	6020B	589628
680-224844-34	AF47658	Dissolved	Water	6020A	589630
680-224844-34	AF47658	Total/NA	Water	6020B	589628
680-224844-35	AF47639	Dissolved	Water	6020A	589630
680-224844-35	AF47639	Total/NA	Water	6020B	589628
680-224844-36	AF47645	Dissolved	Water	6020A	589630
680-224844-36	AF47645	Total/NA	Water	6020B	589628
680-224844-37	AF47641	Dissolved	Water	6020A	589631
680-224844-37	AF47641	Total/NA	Water	6020B	589628
680-224844-38	AF47642	Dissolved	Water	6020A	589631
680-224844-38	AF47642	Total/NA	Water	6020B	589628
680-224844-39	AF47640	Dissolved	Water	6020A	589631
680-224844-39	AF47640	Total/NA	Water	6020B	589628
680-224844-40	AF47653	Dissolved	Water	6020A	589631
680-224844-40	AF47653	Total/NA	Water	6020B	589628
680-224844-41	AF47654	Dissolved	Water	6020A	589631
680-224844-41	AF47654	Total/NA	Water	6020B	589629
680-224844-42	AF47657	Dissolved	Water	6020A	589631
680-224844-42	AF47657	Total/NA	Water	6020B	589629
680-224844-43	AF47664	Dissolved	Water	6020A	589631
680-224844-43	AF47664	Total/NA	Water	6020B	589629
680-224844-44	AF47656	Dissolved	Water	6020A	589631

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Analysis Batch: 590073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-44	AF47656	Total/NA	Water	6020B	589629
MB 160-589627/1-A	Method Blank	Total/NA	Water	6020B	589627
MB 160-589628/1-A	Method Blank	Total/NA	Water	6020B	589628
MB 160-589629/1-A	Method Blank	Total/NA	Water	6020B	589629
MB 160-589630/1-A	Method Blank	Total Recoverable	Water	6020A	589630
MB 160-589631/1-A	Method Blank	Total Recoverable	Water	6020A	589631
LCS 160-589627/2-A	Lab Control Sample	Total/NA	Water	6020B	589627
LCS 160-589628/2-A	Lab Control Sample	Total/NA	Water	6020B	589628
LCS 160-589629/2-A	Lab Control Sample	Total/NA	Water	6020B	589629
LCS 160-589630/2-A	Lab Control Sample	Total Recoverable	Water	6020A	589630
LCS 160-589631/2-A	Lab Control Sample	Total Recoverable	Water	6020A	589631
680-224844-1 MS	AF47633	Dissolved	Water	6020A	589629
680-224844-1 MSD	AF47633	Dissolved	Water	6020A	589629
680-224844-2 MS	AF47632	Total/NA	Water	6020B	589627
680-224844-2 MSD	AF47632	Total/NA	Water	6020B	589627
680-224844-17 MS	AF47624	Dissolved	Water	6020A	589630
680-224844-17 MSD	AF47624	Dissolved	Water	6020A	589630
680-224844-24 MS	AF47635	Total/NA	Water	6020B	589628
680-224844-24 MSD	AF47635	Total/NA	Water	6020B	589628
680-224844-37 MS	AF47641	Dissolved	Water	6020A	589631
680-224844-37 MSD	AF47641	Dissolved	Water	6020A	589631

Analysis Batch: 590226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-14	AF47627	Dissolved	Water	6020A	589629
680-224844-15	AF47626	Dissolved	Water	6020A	589629
680-224844-34	AF47658	Dissolved	Water	6020A	589630

Prep Batch: 749406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Total Recoverable	Water	3005A	
680-224844-2	AF47632	Total Recoverable	Water	3005A	
680-224844-3	AF47651	Total Recoverable	Water	3005A	
680-224844-4	AF47650	Total Recoverable	Water	3005A	
680-224844-5	AF47649	Total Recoverable	Water	3005A	
680-224844-6	AF47647	Total Recoverable	Water	3005A	
680-224844-7	AF47648	Total Recoverable	Water	3005A	
680-224844-8	AF47652	Total Recoverable	Water	3005A	
680-224844-9	AF47646	Total Recoverable	Water	3005A	
680-224844-10	AF47621	Total Recoverable	Water	3005A	
680-224844-11	AF47630	Total Recoverable	Water	3005A	
680-224844-12	AF47628	Total Recoverable	Water	3005A	
680-224844-13	AF47629	Total Recoverable	Water	3005A	
680-224844-14	AF47627	Total Recoverable	Water	3005A	
680-224844-15	AF47626	Total Recoverable	Water	3005A	
680-224844-16	AF47625	Total Recoverable	Water	3005A	
680-224844-17	AF47624	Total Recoverable	Water	3005A	
680-224844-18	AF47623	Total Recoverable	Water	3005A	
680-224844-19	AF47622	Total Recoverable	Water	3005A	
680-224844-20	AF47659	Total Recoverable	Water	3005A	
MB 680-749406/1-A	Method Blank	Total Recoverable	Water	3005A	

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Prep Batch: 749406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-749406/2-A	Lab Control Sample	Total Recoverable	Water	3005A	1
680-224844-1 MS	AF47633	Total Recoverable	Water	3005A	2
680-224844-1 MSD	AF47633	Total Recoverable	Water	3005A	3

Prep Batch: 749407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Total Recoverable	Water	3005A	4
680-224844-2	AF47632	Total Recoverable	Water	3005A	5
680-224844-3	AF47651	Total Recoverable	Water	3005A	6
680-224844-4	AF47650	Total Recoverable	Water	3005A	7
680-224844-5	AF47649	Total Recoverable	Water	3005A	8
680-224844-6	AF47647	Total Recoverable	Water	3005A	9
680-224844-7	AF47648	Total Recoverable	Water	3005A	10
680-224844-8	AF47652	Total Recoverable	Water	3005A	11
680-224844-9	AF47646	Total Recoverable	Water	3005A	12
680-224844-10	AF47621	Total Recoverable	Water	3005A	13
680-224844-11	AF47630	Total Recoverable	Water	3005A	14
680-224844-12	AF47628	Total Recoverable	Water	3005A	15
680-224844-13	AF47629	Total Recoverable	Water	3005A	16
680-224844-14	AF47627	Total Recoverable	Water	3005A	17
680-224844-15	AF47626	Total Recoverable	Water	3005A	18
680-224844-16	AF47625	Total Recoverable	Water	3005A	19
680-224844-17	AF47624	Total Recoverable	Water	3005A	20
680-224844-18	AF47623	Total Recoverable	Water	3005A	21
680-224844-19	AF47622	Total Recoverable	Water	3005A	22
680-224844-20	AF47659	Total Recoverable	Water	3005A	23
MB 680-749407/1-A	Method Blank	Total Recoverable	Water	3005A	24
LCS 680-749407/2-A	Lab Control Sample	Total Recoverable	Water	3005A	25
680-224844-1 MS	AF47633	Total Recoverable	Water	3005A	26
680-224844-1 MSD	AF47633	Total Recoverable	Water	3005A	27

Prep Batch: 749408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-21	AF47660	Total Recoverable	Water	3005A	1
680-224844-22	AF47661	Total Recoverable	Water	3005A	2
680-224844-23	AF47634	Total Recoverable	Water	3005A	3
680-224844-24	AF47635	Total Recoverable	Water	3005A	4
680-224844-25	AF47636	Total Recoverable	Water	3005A	5
680-224844-26	AF47637	Total Recoverable	Water	3005A	6
680-224844-27	AF47638	Total Recoverable	Water	3005A	7
680-224844-28	AF47643	Total Recoverable	Water	3005A	8
680-224844-29	AF47644	Total Recoverable	Water	3005A	9
680-224844-30	AF47631	Total Recoverable	Water	3005A	10
680-224844-31	AF47655	Total Recoverable	Water	3005A	11
680-224844-32	AF47662	Total Recoverable	Water	3005A	12
680-224844-33	AF47663	Total Recoverable	Water	3005A	13
680-224844-34	AF47658	Total Recoverable	Water	3005A	14
680-224844-35	AF47639	Total Recoverable	Water	3005A	15
680-224844-36	AF47645	Total Recoverable	Water	3005A	16
680-224844-37	AF47641	Total Recoverable	Water	3005A	17
680-224844-38	AF47642	Total Recoverable	Water	3005A	18

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Prep Batch: 749408 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-39	AF47640	Total Recoverable	Water	3005A	1
680-224844-40	AF47653	Total Recoverable	Water	3005A	2
MB 680-749408/1-A	Method Blank	Total Recoverable	Water	3005A	3
LCS 680-749408/2-A	Lab Control Sample	Total Recoverable	Water	3005A	4
680-224844-21 MS	AF47660	Total Recoverable	Water	3005A	5
680-224844-21 MSD	AF47660	Total Recoverable	Water	3005A	6

Prep Batch: 749409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-21	AF47660	Total Recoverable	Water	3005A	1
680-224844-22	AF47661	Total Recoverable	Water	3005A	2
680-224844-23	AF47634	Total Recoverable	Water	3005A	3
680-224844-24	AF47635	Total Recoverable	Water	3005A	4
680-224844-25	AF47636	Total Recoverable	Water	3005A	5
680-224844-26	AF47637	Total Recoverable	Water	3005A	6
680-224844-27	AF47638	Total Recoverable	Water	3005A	7
680-224844-28	AF47643	Total Recoverable	Water	3005A	8
680-224844-29	AF47644	Total Recoverable	Water	3005A	9
680-224844-30	AF47631	Total Recoverable	Water	3005A	10
680-224844-31	AF47655	Total Recoverable	Water	3005A	11
680-224844-32	AF47662	Total Recoverable	Water	3005A	12
680-224844-33	AF47663	Total Recoverable	Water	3005A	13
680-224844-34	AF47658	Total Recoverable	Water	3005A	14
680-224844-35	AF47639	Total Recoverable	Water	3005A	15
680-224844-36	AF47645	Total Recoverable	Water	3005A	1
680-224844-37	AF47641	Total Recoverable	Water	3005A	2
680-224844-38	AF47642	Total Recoverable	Water	3005A	3
680-224844-39	AF47640	Total Recoverable	Water	3005A	4
680-224844-40	AF47653	Total Recoverable	Water	3005A	5
MB 680-749409/1-A	Method Blank	Total Recoverable	Water	3005A	6
LCS 680-749409/2-A	Lab Control Sample	Total Recoverable	Water	3005A	7
680-224844-21 MS	AF47660	Total Recoverable	Water	3005A	8
680-224844-21 MSD	AF47660	Total Recoverable	Water	3005A	9

Prep Batch: 749410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-41	AF47654	Total Recoverable	Water	3005A	1
680-224844-42	AF47657	Total Recoverable	Water	3005A	2
680-224844-43	AF47664	Total Recoverable	Water	3005A	3
680-224844-44	AF47656	Total Recoverable	Water	3005A	4
MB 680-749410/1-A	Method Blank	Total Recoverable	Water	3005A	5
LCS 680-749410/2-A	Lab Control Sample	Total Recoverable	Water	3005A	6
680-224844-41 MS	AF47654	Total Recoverable	Water	3005A	7
680-224844-41 MSD	AF47654	Total Recoverable	Water	3005A	8

Prep Batch: 749411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-41	AF47654	Total Recoverable	Water	3005A	1
680-224844-42	AF47657	Total Recoverable	Water	3005A	2
680-224844-43	AF47664	Total Recoverable	Water	3005A	3
680-224844-44	AF47656	Total Recoverable	Water	3005A	4

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QC Association Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Prep Batch: 749411 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-749411/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-749411/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-224844-41 MS	AF47654	Total Recoverable	Water	3005A	
680-224844-41 MSD	AF47654	Total Recoverable	Water	3005A	

Analysis Batch: 749688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-41	AF47654	Total Recoverable	Water	6020B	749411
680-224844-42	AF47657	Total Recoverable	Water	6020B	749411
680-224844-43	AF47664	Total Recoverable	Water	6020B	749411
680-224844-44	AF47656	Total Recoverable	Water	6020B	749411
MB 680-749411/1-A	Method Blank	Total Recoverable	Water	6020B	749411
LCS 680-749411/2-A	Lab Control Sample	Total Recoverable	Water	6020B	749411
680-224844-41 MS	AF47654	Total Recoverable	Water	6020B	749411
680-224844-41 MSD	AF47654	Total Recoverable	Water	6020B	749411

Analysis Batch: 749694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Total Recoverable	Water	6010D	749406
680-224844-2	AF47632	Total Recoverable	Water	6010D	749406
680-224844-3	AF47651	Total Recoverable	Water	6010D	749406
680-224844-4	AF47650	Total Recoverable	Water	6010D	749406
680-224844-5	AF47649	Total Recoverable	Water	6010D	749406
680-224844-6	AF47647	Total Recoverable	Water	6010D	749406
680-224844-7	AF47648	Total Recoverable	Water	6010D	749406
680-224844-8	AF47652	Total Recoverable	Water	6010D	749406
680-224844-9	AF47646	Total Recoverable	Water	6010D	749406
680-224844-10	AF47621	Total Recoverable	Water	6010D	749406
680-224844-11	AF47630	Total Recoverable	Water	6010D	749406
680-224844-12	AF47628	Total Recoverable	Water	6010D	749406
680-224844-13	AF47629	Total Recoverable	Water	6010D	749406
680-224844-14	AF47627	Total Recoverable	Water	6010D	749406
680-224844-15	AF47626	Total Recoverable	Water	6010D	749406
680-224844-16	AF47625	Total Recoverable	Water	6010D	749406
680-224844-17	AF47624	Total Recoverable	Water	6010D	749406
680-224844-18	AF47623	Total Recoverable	Water	6010D	749406
680-224844-19	AF47622	Total Recoverable	Water	6010D	749406
680-224844-20	AF47659	Total Recoverable	Water	6010D	749406
680-224844-21	AF47660	Total Recoverable	Water	6010D	749408
680-224844-22	AF47661	Total Recoverable	Water	6010D	749408
680-224844-23	AF47634	Total Recoverable	Water	6010D	749408
680-224844-24	AF47635	Total Recoverable	Water	6010D	749408
680-224844-25	AF47636	Total Recoverable	Water	6010D	749408
680-224844-26	AF47637	Total Recoverable	Water	6010D	749408
680-224844-27	AF47638	Total Recoverable	Water	6010D	749408
680-224844-28	AF47643	Total Recoverable	Water	6010D	749408
680-224844-29	AF47644	Total Recoverable	Water	6010D	749408
680-224844-30	AF47631	Total Recoverable	Water	6010D	749408
680-224844-31	AF47655	Total Recoverable	Water	6010D	749408
680-224844-32	AF47662	Total Recoverable	Water	6010D	749408
680-224844-33	AF47663	Total Recoverable	Water	6010D	749408

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Analysis Batch: 749694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-34	AF47658	Total Recoverable	Water	6010D	749408
680-224844-35	AF47639	Total Recoverable	Water	6010D	749408
680-224844-36	AF47645	Total Recoverable	Water	6010D	749408
680-224844-37	AF47641	Total Recoverable	Water	6010D	749408
680-224844-38	AF47642	Total Recoverable	Water	6010D	749408
680-224844-39	AF47640	Total Recoverable	Water	6010D	749408
680-224844-40	AF47653	Total Recoverable	Water	6010D	749408
680-224844-41	AF47654	Total Recoverable	Water	6010D	749410
680-224844-42	AF47657	Total Recoverable	Water	6010D	749410
680-224844-43	AF47664	Total Recoverable	Water	6010D	749410
680-224844-44	AF47656	Total Recoverable	Water	6010D	749410
MB 680-749406/1-A	Method Blank	Total Recoverable	Water	6010D	749406
MB 680-749408/1-A	Method Blank	Total Recoverable	Water	6010D	749408
MB 680-749410/1-A	Method Blank	Total Recoverable	Water	6010D	749410
LCS 680-749406/2-A	Lab Control Sample	Total Recoverable	Water	6010D	749406
LCS 680-749408/2-A	Lab Control Sample	Total Recoverable	Water	6010D	749408
LCS 680-749410/2-A	Lab Control Sample	Total Recoverable	Water	6010D	749410
680-224844-1 MS	AF47633	Total Recoverable	Water	6010D	749406
680-224844-1 MSD	AF47633	Total Recoverable	Water	6010D	749406
680-224844-21 MS	AF47660	Total Recoverable	Water	6010D	749408
680-224844-21 MSD	AF47660	Total Recoverable	Water	6010D	749408
680-224844-41 MS	AF47654	Total Recoverable	Water	6010D	749410
680-224844-41 MSD	AF47654	Total Recoverable	Water	6010D	749410

Analysis Batch: 749946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-8	AF47652	Total Recoverable	Water	6010D	749406
680-224844-14	AF47627	Total Recoverable	Water	6010D	749406
680-224844-15	AF47626	Total Recoverable	Water	6010D	749406
680-224844-34	AF47658	Total Recoverable	Water	6010D	749408

Analysis Batch: 749990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-1	AF47633	Total Recoverable	Water	6020B	749407
680-224844-2	AF47632	Total Recoverable	Water	6020B	749407
680-224844-3	AF47651	Total Recoverable	Water	6020B	749407
680-224844-4	AF47650	Total Recoverable	Water	6020B	749407
680-224844-5	AF47649	Total Recoverable	Water	6020B	749407
680-224844-6	AF47647	Total Recoverable	Water	6020B	749407
680-224844-7	AF47648	Total Recoverable	Water	6020B	749407
680-224844-8	AF47652	Total Recoverable	Water	6020B	749407
680-224844-9	AF47646	Total Recoverable	Water	6020B	749407
680-224844-10	AF47621	Total Recoverable	Water	6020B	749407
680-224844-11	AF47630	Total Recoverable	Water	6020B	749407
680-224844-12	AF47628	Total Recoverable	Water	6020B	749407
680-224844-13	AF47629	Total Recoverable	Water	6020B	749407
680-224844-14	AF47627	Total Recoverable	Water	6020B	749407
680-224844-15	AF47626	Total Recoverable	Water	6020B	749407
680-224844-16	AF47625	Total Recoverable	Water	6020B	749407
680-224844-17	AF47624	Total Recoverable	Water	6020B	749407
680-224844-18	AF47623	Total Recoverable	Water	6020B	749407

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QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Metals (Continued)

Analysis Batch: 749990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224844-19	AF47622	Total Recoverable	Water	6020B	749407
680-224844-20	AF47659	Total Recoverable	Water	6020B	749407
680-224844-21	AF47660	Total Recoverable	Water	6020B	749409
680-224844-22	AF47661	Total Recoverable	Water	6020B	749409
680-224844-23	AF47634	Total Recoverable	Water	6020B	749409
680-224844-24	AF47635	Total Recoverable	Water	6020B	749409
680-224844-25	AF47636	Total Recoverable	Water	6020B	749409
680-224844-26	AF47637	Total Recoverable	Water	6020B	749409
680-224844-27	AF47638	Total Recoverable	Water	6020B	749409
680-224844-28	AF47643	Total Recoverable	Water	6020B	749409
680-224844-29	AF47644	Total Recoverable	Water	6020B	749409
680-224844-30	AF47631	Total Recoverable	Water	6020B	749409
680-224844-31	AF47655	Total Recoverable	Water	6020B	749409
680-224844-32	AF47662	Total Recoverable	Water	6020B	749409
680-224844-33	AF47663	Total Recoverable	Water	6020B	749409
680-224844-34	AF47658	Total Recoverable	Water	6020B	749409
680-224844-35	AF47639	Total Recoverable	Water	6020B	749409
680-224844-36	AF47645	Total Recoverable	Water	6020B	749409
680-224844-37	AF47641	Total Recoverable	Water	6020B	749409
680-224844-38	AF47642	Total Recoverable	Water	6020B	749409
680-224844-39	AF47640	Total Recoverable	Water	6020B	749409
680-224844-40	AF47653	Total Recoverable	Water	6020B	749409
MB 680-749407/1-A	Method Blank	Total Recoverable	Water	6020B	749407
MB 680-749409/1-A	Method Blank	Total Recoverable	Water	6020B	749409
LCS 680-749407/2-A	Lab Control Sample	Total Recoverable	Water	6020B	749407
LCS 680-749409/2-A	Lab Control Sample	Total Recoverable	Water	6020B	749409
680-224844-1 MS	AF47633	Total Recoverable	Water	6020B	749407
680-224844-1 MSD	AF47633	Total Recoverable	Water	6020B	749407
680-224844-21 MS	AF47660	Total Recoverable	Water	6020B	749409
680-224844-21 MSD	AF47660	Total Recoverable	Water	6020B	749409

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47633

Date Collected: 10/25/22 09:27

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:10
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 15:45
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:00
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 20:20

Client Sample ID: AF47632

Date Collected: 10/25/22 10:34

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:19
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 15:59
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:08
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 20:23

Client Sample ID: AF47651

Date Collected: 10/25/22 11:10

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:22
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:13
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:11
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		1	590073	CGB	EET SL	11/14/22 20:50

Client Sample ID: AF47650

Date Collected: 10/25/22 12:46

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:25

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Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47650

Date Collected: 10/25/22 12:46

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:16
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:14
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 20:54

Client Sample ID: AF47649

Date Collected: 10/25/22 14:11

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:34
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:20
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:16
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 20:57

Client Sample ID: AF47647

Date Collected: 10/25/22 15:16

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:37
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:23
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:25
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:01

Client Sample ID: AF47648

Date Collected: 10/25/22 15:21

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:40
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:26

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47648

Date Collected: 10/25/22 15:21

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:27
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:04

Client Sample ID: AF47652

Date Collected: 10/26/22 09:24

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:43
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		10	749946	BJB	EET SAV	11/09/22 15:44
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:30
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:30
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:08

Client Sample ID: AF47646

Date Collected: 10/26/22 10:30

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:46
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:33
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:33
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:11

Client Sample ID: AF47621

Date Collected: 10/26/22 11:47

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:49
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:37

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47621

Date Collected: 10/26/22 11:47

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:35
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:25

Client Sample ID: AF47630

Date Collected: 10/26/22 12:58

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:52
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:40
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:38
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:28

Client Sample ID: AF47628

Date Collected: 10/26/22 14:05

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:55
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:44
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:41
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:32

Client Sample ID: AF47629

Date Collected: 10/26/22 14:10

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 23:58
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 16:57
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:44

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Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47629

Date Collected: 10/26/22 14:10
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:35

Client Sample ID: AF47627

Date Collected: 10/26/22 15:32
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:01
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		10	749946	BJB	EET SAV	11/09/22 15:47
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:01
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		5	590226	CGB	EET SL	11/15/22 15:58
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:52
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:38

Client Sample ID: AF47626

Date Collected: 10/27/22 09:41
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:10
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		10	749946	BJB	EET SAV	11/09/22 15:50
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:04
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		10	590226	CGB	EET SL	11/15/22 16:02
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:54
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:42

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47625

Date Collected: 10/27/22 11:01

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:13
Dissolved	Prep	3005A			589629	LKP	EET SL	11/10/22 14:09
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:08
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 17:57
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:45

Client Sample ID: AF47624

Date Collected: 10/27/22 12:15

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:16
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:18
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:00
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:49

Client Sample ID: AF47623

Date Collected: 10/27/22 13:24

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:19
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:42
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:03
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:52

Client Sample ID: AF47622

Date Collected: 10/27/22 14:46

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:22

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Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47622

Date Collected: 10/27/22 14:46

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:45
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:05
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 21:56

Client Sample ID: AF47659

Date Collected: 10/27/22 15:56

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749406	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:25
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:49
Total Recoverable	Prep	3005A			749407	RR	EET SAV	11/08/22 04:59
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:08
Total/NA	Prep	3010A			589627	LKP	EET SL	11/10/22 14:04
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 22:09

Client Sample ID: AF47660

Date Collected: 10/27/22 16:01

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:34
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:52
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:27
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 22:20

Client Sample ID: AF47661

Date Collected: 10/31/22 10:13

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:49
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:56

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Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47661

Date Collected: 10/31/22 10:13

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:35
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 22:23

Client Sample ID: AF47634

Date Collected: 10/31/22 11:27

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:52
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 17:59
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:38
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 22:27

Client Sample ID: AF47635

Date Collected: 10/31/22 11:32

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:55
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:02
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:41
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 22:30

Client Sample ID: AF47636

Date Collected: 10/31/22 12:40

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 00:58
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:06
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:43

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Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47636

Date Collected: 10/31/22 12:40
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 22:57

Client Sample ID: AF47637

Date Collected: 10/31/22 13:42
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:01
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:09
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:52
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:01

Client Sample ID: AF47638

Date Collected: 10/31/22 14:32
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:04
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:13
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:54
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:04

Client Sample ID: AF47643

Date Collected: 11/02/22 09:42
 Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:07
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:26
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 18:57
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:08

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47644

Date Collected: 11/02/22 09:47

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:10
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:30
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:00
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:11

Client Sample ID: AF47631

Date Collected: 11/02/22 11:02

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:13
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:33
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:02
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:15

Client Sample ID: AF47655

Date Collected: 11/02/22 12:32

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:23
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:37
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:05
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:18

Client Sample ID: AF47662

Date Collected: 11/02/22 13:51

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:26

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47662

Date Collected: 11/02/22 13:51

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:40
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:08
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:22

Client Sample ID: AF47663

Date Collected: 11/02/22 14:52

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:29
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:43
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:16
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:25

Client Sample ID: AF47658

Date Collected: 11/02/22 16:00

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:32
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		10	749946	BJB	EET SAV	11/09/22 15:41
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:47
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		5	590226	CGB	EET SL	11/15/22 16:05
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:19
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:39

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47639

Date Collected: 11/01/22 10:13

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:35
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:50
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:21
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:42

Client Sample ID: AF47645

Date Collected: 11/01/22 11:29

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:38
Dissolved	Prep	3005A			589630	LKP	EET SL	11/10/22 14:12
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 18:54
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:24
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:46

Client Sample ID: AF47641

Date Collected: 11/01/22 12:28

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:41
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:14
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:27
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:49

Client Sample ID: AF47642

Date Collected: 11/01/22 14:06

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:44

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47642

Date Collected: 11/01/22 14:06

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:28
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:30
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:52

Client Sample ID: AF47640

Date Collected: 11/01/22 15:15

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:47
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:31
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:32
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:56

Client Sample ID: AF47653

Date Collected: 11/03/22 10:03

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749408	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/09/22 01:50
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:35
Total Recoverable	Prep	3005A			749409	RR	EET SAV	11/08/22 05:33
Total Recoverable	Analysis	6020B		1	749990	BWR	EET SAV	11/09/22 19:35
Total/NA	Prep	3010A			589628	LKP	EET SL	11/10/22 14:07
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 23:59

Client Sample ID: AF47654

Date Collected: 11/03/22 11:04

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-41

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749410	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 18:06
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:38

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47654

Date Collected: 11/03/22 11:04

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-41

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749411	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6020B		1	749688	BWR	EET SAV	11/08/22 21:12
Total/NA	Prep	3010A			589629	LKP	EET SL	11/10/22 14:09
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 15:28

Client Sample ID: AF47657

Date Collected: 11/03/22 12:20

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-42

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749410	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 18:21
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:42
Total Recoverable	Prep	3005A			749411	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6020B		1	749688	BWR	EET SAV	11/08/22 21:20
Total/NA	Prep	3010A			589629	LKP	EET SL	11/10/22 14:09
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 15:35

Client Sample ID: AF47664

Date Collected: 11/03/22 13:44

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-43

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749410	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 18:24
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:55
Total Recoverable	Prep	3005A			749411	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6020B		1	749688	BWR	EET SAV	11/08/22 21:23
Total/NA	Prep	3010A			589629	LKP	EET SL	11/10/22 14:09
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 15:39

Client Sample ID: AF47656

Date Collected: 11/03/22 14:49

Date Received: 11/05/22 11:38

Lab Sample ID: 680-224844-44

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749410	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6010D		1	749694	BJB	EET SAV	11/08/22 18:27
Dissolved	Prep	3005A			589631	LKP	EET SL	11/10/22 14:16
Dissolved	Analysis	6020A		2	590073	CGB	EET SL	11/14/22 19:59
Total Recoverable	Prep	3005A			749411	RR	EET SAV	11/08/22 05:57
Total Recoverable	Analysis	6020B		1	749688	BWR	EET SAV	11/08/22 21:25

Eurofins Savannah

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Client Sample ID: AF47656

Date Collected: 11/03/22 14:49

Lab Sample ID: 680-224844-44

Date Received: 11/05/22 11:38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			589629	LKP	EET SL	11/10/22 14:09
Total/NA	Analysis	6020B		2	590073	CGB	EET SL	11/14/22 15:42

Laboratory References:

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

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia

@santeecooper.com

/ /

125915 / JM02.09 601.1 / 36500

Yes (No)

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	METALS -SEE BELOW	DISSOLVED Be, Co, Li, Fe, Mn
AF47633	PM-1	10/25/22	0927	WTK ML	2	P	G	GW	2	PLEASE SEE SHEET	X	X
32	CBW-1		1034							FOR RLS.		
51	CGYP-6		1110							6010 Ca	6020 AS cr Ti	
50	CGYP-4		1246							Fe K	Ba Mn Be Pb	
49	CGYP-2		1411							Mg	Cd Sb	
47	CGYP-2		1516							Na	Co Se	
48	CGYP-2 DUP		1521	-	-	-	-	-	-	DISSOLVED: Be	-	
										CO Li		
										Fe		
										Mn		



680-224844 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
sgjbrown	35594	11/4/22	1500	✓		11/5/22	1138
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

28-6 / 20.6

Date/Time/Init for preservative:

☐ METALS (all)	Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> %Moisture
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> AIM	<input type="checkbox"/> LOI	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> TOC	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Acidity
<input checked="" type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Total metals	<input type="checkbox"/> Mineral	<input type="checkbox"/> Dielectric Strength
<input checked="" type="checkbox"/> Be	<input checked="" type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Analysis	<input type="checkbox"/> IFT
<input checked="" type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> Sieve	<input type="checkbox"/> Dissolved Gases
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> % Moisture	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Used Oil
<input checked="" type="checkbox"/> Co	<input type="checkbox"/> Ni	<input checked="" type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Sulfites	<input type="checkbox"/> NPDES	<input type="checkbox"/> Flashpoint
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> pH	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Metals in oil
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> As	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> TSS	<input type="checkbox"/> TX
				<input type="checkbox"/> PCB	<input type="checkbox"/> Chlorides	<input type="checkbox"/> GOFER
					<input type="checkbox"/> Particle Size	
					<input type="checkbox"/> Sulfur	

Matrix codes. GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boller water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6-Other (Specify)

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone (843)761-8000 Ext 5148
Fax. (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA

www.santaeccomer.com

(258) 15-4 70002-002-051-1-1-0000

Yes No

es No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Sgtzoun	35594	11/4/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): **Initial:**

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecoop.com

/ /

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	Total METALS -SEE BELOW	DISSOLVED Be, Co, Fe, Li, Mn
AF47626	CAP-7	10/27/22	0941	WJK ML	2	P	G	GW	2	SEE SHEET FOR RLS	X	X
25	CAP-6		1101							WHERE APPLICABLE.		
24	CAP-5		1215									
23	CAP-4		1324									
22	CAP-3		1446									
59	CCMAP-4		1556									
60	CCMAP-4 DUP	-	1601	-	-	-	-	-	-	DISSOLVED = Be Co Li Fe Mn	-	-

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Signer Name	35594	11/4/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

☐ METALS (all)	Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ammonia	Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> LCI	% Moisture
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> % Carbon	Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> Mineral	Acidity
<input type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Analysis	Dielectric Strength
<input checked="" type="checkbox"/> Be	<input checked="" type="checkbox"/> Mn	<input checked="" type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> CHN	IIFT
<input checked="" type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Other Tests:	Dissolved Gases
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input type="checkbox"/> Hg	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> XRF Scan	Used Oil
<input checked="" type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> CrVI	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> HGI	Flashpoint
<input checked="" type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 226	<input type="checkbox"/> Fineness	Metals in oil (As,Cd,Cr,Ni,Pb Hg)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particle Size	TX
				<input type="checkbox"/> PCB	<input type="checkbox"/> Sulfur	GOFER

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6-Other (Specify)



Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax. (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecoopera.com

1 / 1

125915 / JM02.09. G01.1 / 36500

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
John Brown	35594	11/4/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

Correct pH: Yes No

Preservative Lot#:

Date/Time/init for preservative:

☐ METALS (all)			Nutrients			MISC.			Gypsum			Coal			Flyash			Oil		
☐ Ag	☐ Cu	☒ Sb	☐ TOC	☐ BTEX	☐ Wallboard	☐ Ultimate	☐ Ammonia	Trans. Oil Qual.	☐ DOC	☐ Naphthalene	☐ Gypsum(all below)	☐ % Moisture	☐ LOI	☐ % Moisture	Trans. Oil Qual.	☐ Fe	☐ TP/TP04	☐ AIM	☐ Ash	% Moisture
☐ Al	☒ Fe	☒ Se	☐ NH3-N	☐ THM/HAA	☐ VOC	☐ BTUs	☐ Carbon	Color	☐ F	☐ Oil & Grease	☐ Total Coliform	☐ Sulfur	☐ Mineral	Color	☒ K	☐ Sn	☐ E. Coli	☐ Sieve	Acidity	Mineral
☒ As	☒ K	☐ Sn	☐ NH3-N	☐ NO2	☐ pH	☐ Volatile Matter	Analysis	Dielectric Strength	☐ Cl	☐ Dissolved As	☐ Soluble Metals	☐ CHN	☐ Analysis	IF T	☒ Mn	☒ Ti	☐ Dissolved Fe	☐ Purity (CaSO4)	Dissolved Gases	Used Oil
☒ Ba	☒ Mg	☐ Ti	☐ NO3	☐ Br	☐ Rad 226	☐ Particule Size	Flashpoint	☐ V	☐ SO4	☐ Rad 228	☐ Chlorides	☐ Sulfur	☐ Sieve	NPDES	☐ Mo	☐ Zn	☐ PCB	☐ Hg	Metals in oil	(As, Cd, Cr, Ni, Pb, Hg)
☒ Be	☒ Mn	☒ Ti	☐ Na	☐ NO3	☐ PCB	☐ Sulfur	☐ TX	☐ V	☐ Hg	☐ Particle Size	☐ Particulate Matter	☐ TSS	☐ TSS	GOFER	☐ Cd	☐ Zn	☐ Hg	☐ As	TX	GOFER
☒ Ca	☐ Mo	☐ V	☒ Na	☐ SO4	☐ Hg										☐ Cr	☒ Pb	☐ CrVI			

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code: 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6-Other (Specify)

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

lcwillia

@santeecooper.com

125915 / JM02 09.601.1 / 36500

Yes

No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	TOTAL METALS -SEE BELOW	DISSOLVED BEC. OF	DISSOLVED BEC. OF
AF47643	P0Z 7	11/2/22	0942	WJK ML	2	G	G	GW	2	SEE SHEET FOR RLS.	X	X	
44	P0Z-7 DUR		0947										
31	CAP -13		1102										
55	CCMLF -2		1232										
62	CCMAP - 6		1351										
63	CCMAP - 7		1452										
58	CCMAP - 3		1600							DISSOLVED: Be Co Li Fe Mn			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Jeff Brown	35594	11/4/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input checked="" type="checkbox"/> Sb		<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input checked="" type="checkbox"/> Fe	<input checked="" type="checkbox"/> Se		<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> %Moisture
<input checked="" type="checkbox"/> As	<input checked="" type="checkbox"/> K	<input type="checkbox"/> Sn		<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr		<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input checked="" type="checkbox"/> Mg	<input type="checkbox"/> Ti		<input type="checkbox"/> P	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Dielectric Strength
<input checked="" type="checkbox"/> Be	<input checked="" type="checkbox"/> Mn	<input checked="" type="checkbox"/> Ti		<input type="checkbox"/> Cl	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> IFT
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> NO2	<input type="checkbox"/> pH	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Cd	<input checked="" type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> Br	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Mineral	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input checked="" type="checkbox"/> Hg		<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> Sulfites	<input type="checkbox"/> Analysis	<input type="checkbox"/> Flashpoint
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> SO4	<input type="checkbox"/> Rad 226	<input type="checkbox"/> pH	<input type="checkbox"/> Sieve	<input type="checkbox"/> Metals in oil
					<input type="checkbox"/> Rad 228	<input type="checkbox"/> Chlorides	<input type="checkbox"/> % Moisture	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)
					<input type="checkbox"/> PCB	<input type="checkbox"/> Particle Size	<input type="checkbox"/> NPDES	<input type="checkbox"/> TX
						<input type="checkbox"/> Sulfur	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> GOFER
							<input type="checkbox"/> As	
							<input type="checkbox"/> TSS	

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boller water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax. (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged OC

LAWILLA

[@santeecopper.com](http://santeecopper.com)

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125915 / TMR2 09 00 1-1 36500

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Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
John Brown	35594	11/4/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Date/Time/Init for preservative:

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oll-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code: 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Berun request for any flagged DC

LCWILLIA

[@santeercooper.com](http://santeercooper.com)

1 / 1

125915 / TM02.09 G0 | | / 36500

Yes No

No

Analysts Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
S Brown	35594	11/4/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____ **Initial:** _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

Eurofins Savannah

5102 La Résilie Avenue
Khartoum, CA 3-404
Phone: 912-224-7855 Fax: 912-332-1165

Chain of Custody Record

Client Information [Sub Contract Lab]									
Client Contact:		Sample		Site:		Owner:		Carrier:	
Shipping/Receiving		First:		Last:		Name:		Name:	
Customer:		First:		Last:		Email:		Email:	
TestAmerica Laboratories, Inc.									
Address:									
City:									
State/Prov:									
Phone:									
Fax:									
Email:									
Project #:									
125915_JM0209_G01.1;26500									
Site #:									
Sample Identification - Client ID [Lab ID]									
Sample Date Sample Time Sample Date Sample Time Sample Date Sample Time Sample Date Sample Time									
Preservation Code									
A#47653 (680-224644-1) 10/26/22 Eastern 08:27 Water X X 2									
A#47652 (680-224644-2) 10/26/22 Eastern 10:34 Water X X 2									
A#47651 (680-224644-3) 10/26/22 Eastern 11:45 Water X X 2									
A#47650 (680-224644-4) 10/26/22 Eastern 17:45 Water X X 2									
A#47649 (680-224644-5) 10/26/22 Eastern -4:11 Water X X 2									
A#47647 (680-224644-6) 10/26/22 Eastern 15:16 Water X X 2									
A#47648 (680-224644-7) 10/26/22 Eastern 15:21 Water X X 2									
A#47652 (680-224644-8) 10/26/22 Eastern 09:24 Water X X 2									
A#47646 (680-224644-9) 10/26/22 Eastern 10:30 Water X X 2									
Note: Since laboratory characteristics are subject to change, Eurofins Environmental Testing Southwest, LLC places the highest priority on method selection & documentation compliance upon receipt or submission. This sample shipment is received under the terms of a pre-existing contract. This sample was taken in the State of Oregon and above for analytical purposes and is being analyzed by the analyst indicated. The samples must be kept intact until they are analyzed. The samples will be returned to Eurofins Environmental Testing Southwest, LLC after completion of analysis. All returned notifications are turned to you, returning the sample within 1 month of analysis. Samples should be brought to Eurofins Environmental Testing Southwest, LLC site for immediate analysis if returned notifications are turned to you, returning the sample within 1 month of analysis.									
Possible Hazard Identification									
Unforeseen Requested: I, II, III, IV, Other (specify)									
Primary Deliverable Rank: 1									
Enviro Kit Requisitioned by:		Date:		Time:		Company:		Method of Shipment:	
Requisitioned By:									
Requisitioned By:		FED EX		2022-10-26		FED EX		Company	
Requisitioned By:									
Custody Seal Intact: Yes / No:		Custody Seal No:							

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TAKHTAJAN

Client Information (Sub Contract Lab)		Customer		Lab PW		Carrie Tracking Number.		Date	
				Lanner Jerry K.		State of Union South Carolina		650-7159112	
Ship To/Contractor Name:		Phone:		F.M.A. Jerry Lanner@outlook.com		Site of Union South Carolina		Page 2 of 5	
Company:		Fax:		NFIAP - Florida State - South Carolina, State Program		Date:		680-22044-1	
Address:		Due Date Requested:		Analysis Requested:		Preservation Code:		Comments:	
City: Earth City		11/16/2022		TAT Requested (days):		A - H2O B - NaOH C - Cr Acetate D - Acetate E - HCl F - HNO3 G - Na2CO3 H - Na2SO4 I - MeOH J - H2S K - Ammonia L - Isobutyl Alcohol M - Methanol N - Me2S O - LiOH P - H2O2 Q - Na2S2O3 R - HCl S - HNO3 T - Isopropyl Alcohol U - Acetone V - Me2S4 W - LiOH X - MeOH Y - Toluene Z - Other (Specify):		H - NaOH D - Acetate P - H2O2 Q - Na2S2O3 R - HCl S - HNO3 T - Isopropyl Alcohol U - Acetone V - Me2S4 W - LiOH X - MeOH Y - Toluene Z - Other (Specify):	
State: 7105 MC: 636455		Phone: 314-298-8583(Tel) 314-238-8757(Fax)		Email: jerry.lanner@outlook.com		Total Number of Contaminants:			
Project Name: 126154J402-29-LD1 115E500		Project #:		2020/2021 Field Filtered Sample Type (See Q.C.)		5096/5010A 2% (MD) Single Standard Lab			
S.I.N:		SS#:		Field Filtered Sample Type (See Q.C.)		Particulate Material (See Q.C.)			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (IC=Crato, G=Crato)		Matrix (Unknown, Sediment, Corals, etc.)	
						Preservation Code:			
AF-47521 (680-224B44-110)		10/26/22	11:47		Water	X X		X	
AF-47630 (680-224B44-11)		10/26/22	12:50		Water	X X		X	
AF-47626 (680-224B44-12)		10/26/22	14:05		Water	X X		X	
AF-47629 (680-224B44-13)		10/26/22	12:10		Water	X X		X	
AF-47621 (680-224B44-14)		10/26/22	15:32		Water	X X		X	
AF-47625 (680-224B44-15)		10/27/22	09:41		Water	X X		X	
AF-47625 (680-224B44-16)		10/27/22	11:01		Water	X X		X	
AF-47624 (680-224B44-17)		10/27/22	12:15		Water	X X		X	
AF-47623 (680-224B44-18)		10/27/22	13:24		Water	X X		X	
Delivery Requested: I. II. III. IV. Other (Specify):		Primary Deliverable Rank 1		Time:		Method of Shipment:			
Unconfirmed:		Date:		Time:		FED EX		Comments:	
Reinforced by:		Name/Title:		Company:		Received by:		Comments:	
Reinforced by:		Date/Time:		Company:		Received by:		Comments:	
Reinforced by:		Date/Time:		Company:		Received by:		Comments:	
Custody Seal intact:		Custody Seal No.:							
Yes □ No □									

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are scanned sequentially from left to right, starting at the top-left corner.

Yuan Shikai's death was followed by a period of political instability, with various warlords vying for power.

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METHOD OF SYNTHESIS

COMMERCIAL
LAWYERS
EX-EEB

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Cyclic Temperature Cycles and Other Reactions

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23

Eurofins Savannah

57-22 LaRocce Avenue
Savannah, GA 31404

Chain of Custody Record

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-224844-1

Login Number: 224844

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-224844-1

Login Number: 224844

List Source: Eurofins St. Louis

List Number: 2

List Creation: 11/09/22 12:27 PM

Creator: Bohlmann, Jessica M

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	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-224844-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22 *
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

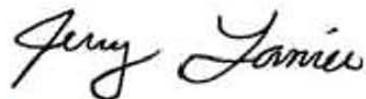
Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



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Authorized for release by
Jerry Lanier, Project Manager I
Jerry.Lanier@et.eurofinsus.com
(912)250-0281

Field Data Sheets

(Note: color coding is to assist with stabilization of the field parameters prior to sample collection)

**Cross Generating Station
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CAP-13	80.77	5.71	4.5-19.5	11/2/2022	1102	22.06

Drawdown: 7.53 depth to GW (ft)

NPDES Only:

Al, As, Ba, Ca, Cd, Cr, Fe, K, Mg, Na, dissolved As

Cl, SO₄, TDS

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

**Cross Generating Station
for CCR ACM Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-2	84.08	9.19	9.5-19.5	11/2/2022	1232	22.61

Drawdown: 9.2 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1149	25.07	5.65	83	53	12.7	1.06
1154	24.73	5.33	132	50	11.4	0.79
1159	24.62	5.26	161	51	11.2	0.75
1204	24.54	5.49	159	62	9.3	0.77
1209	24.48	5.63	118	74	8.9	0.72
1214	24.42	5.64	102	79	8.9	0.73
1217	24.41	5.66	97	81	8.7	0.74
1220	24.39	5.65	95	85	8.7	0.73
1223	24.37	5.65	95	87	8.5	0.74
1226	24.35	5.64	95	90	8.1	0.74
1229	24.34	5.64	96	90	7.9	0.75
1232	24.35	5.64	96	91	7.8	0.76

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Cobalt

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

Cross Generating Station for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-1D	80.653	5.24	23 - 28	11/3/2022	1104	31.14

Drawdown: 5.48 depth to GW (ft)

CCR CMA Only---Cobalt

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Cross Generating Station
for CCR ACM Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-1	80.862	5.47	10-15	11/3/2022	1003	18.37

Drawdown: 5.62 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
923	22.33	6.02	161	140	3.5	4.51
928	22.37	6	88	132	2.3	1.87
933	22.37	5.99	74	130	1.8	1.35
938	22.37	5.95	69	127	1.5	1.28
943	22.37	5.91	67	121	10.5	1.17
948	22.38	5.88	64	121	8.4	0.96
951	22.38	5.83	66	118	7.8	1.19
954	22.39	5.82	65	117	5.9	1.18
957	22.4	5.8	65	116	5.2	1
1000	22.42	5.8	65	115	4.5	1
1003	22.44	5.78	65	113	4.2	1.01

CCR CMA Only---Cobalt

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
POZ-8	83.13	7.31	44.5 - 55.5	11/1/2022	1129	58.53

Drawdown: 7.32 depth to GW (ft)

Comments/Conditions:

Samples were collected by Justin Kirk and TC Guerry

Cross Generating Station
Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-7	82.02	6.26	12-22	11/2/2022	942

Drawdown: 6.32 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)
856	23.49	4.63	194	62	24.9
901	23.28	4.66	203	58	17.2
906	23.32	4.61	215	63	5.7
911	23.47	4.57	227	69	3.1
916	23.55	4.59	235	72	3.4
921	23.66	4.72	233	78	4.6
924	23.73	4.81	231	81	3.8
927	23.72	4.87	230	84	3.7
930	23.79	4.92	229	87	3.9
933	23.87	4.95	229	90	2.4
936	23.99	4.97	229	93	0.9
939	24.08	5	229	95	0.1
942	23.98	5.02	228	97	0

Comments/Conditions:

DUP at

947

Samples were collected by Justin Kirk and Marvin Lewis

Cross Generating Station
Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-6	83.84	8.03	12-22	11/1/2022	1406

Drawdown: 15.11 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)
1259	26.99	6.79	36	1340	0
1304	26.74	6.76	47	1330	3.7
1309	26.64	6.74	50	1330	3.4
1314	27.36	6.73	41	1310	3.6
1319	26.63	6.55	6	1310	1.9
1324	26.55	6.55	-2	1320	1.3
1327	26.66	6.61	-22	1390	0
1330	26.67	6.6	-26	1410	0.6
1333	26.27	6.42	-25	1580	0
1339*	26.25	6.37	-33	1700	10.5
1342	25.67	6.29	-50	2510	17.2
1345	25.67	6.29	-54	2630	17.6
1348	25.8	6.29	-56	2660	15.1
1351	26.01	6.29	-57	2680	13.8
1354	26.13	6.3	-58	2680	12.1
1357	26.17	6.3	-58	2680	12.2
1400	26.24	6.3	-59	2680	10.6
1403	26.18	6.31	-59	2680	9.6
1406	26.14	6.31	-59	2680	10.4

Comments/Conditions: * Water level dropped below tubing. Added extension and continu

Samples were collected by Justin Kirk and TC Guerry

Cross Generating Station

Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-4	82.73	5.64	9.5 - 14.5	11/1/2022	1228

Drawdown: 7.09 depth to GW (ft)

Comments/Conditions:

Samples were collected by Justin Kirk and TC Guerry

Cross Generating Station Background Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
CBW-1	85.80	10.42	14-24	10/25/2022	1034

Drawdown: 10.47 depth to GW (ft)

CCR/Class 3 Landfill: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Sb, Se, Tl, Zn, dissolved As
Ra 226/228 Nitrate, TOC Cl, F, SO₄, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As
Ra 226/228 Cl, F, SO₄, TDS

Comments/Conditions: Field data was lost when file wouldn't open. Field data redone on 11/

Samples were collected by Justin Kirk and Marvin Lewis

**Cross Generating Station
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
PM-1	83.24	8.19	4-24	10/25/2022	927	26.34

Drawdown: 8.76 depth to GW (ft)

NPDES/CCR/Class 2 Landfill: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, K, Li, Mg, Mo, Na, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228 Nitrate, TOC Cl, F, SO₄, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO₄, TDS

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**Cross Generating Station
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CAP-13	80.77	8.35	4.5-19.5	6/22/2022	1027	22.06

Drawdown: 9.59 depth to GW (ft)

NPDES Only:

Al, As, Ba, Ca, Cd, Cr, Fe, K, Mg, Na, dissolved As

Cl, SO₄, TDS

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-2	84.08	13.55	9.5-19.5	6/29/2022	1140	22.65

Drawdown: 13.58 depth to GW (ft)

—ORIGINALLY

Cobalt

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-1D	80.653	8.9	23 - 28	6/29/2022	1033	31.13

Drawdown: 9.26 depth to GW (ft)

CCR CMA Only---Cobalt

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

**Cross Generating Station
for CCR ACM Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-1	80.862	9.11	10-15	6/29/2022	930	18.37

Drawdown: 9.25 depth to GW (ft)

CCR CMA Only---Cobalt

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft. bgs)	Sample Date	Sample Time	Total Well Depth
POZ-8	83.13	10.72	44.5 - 55.5	6/28/2022	1050	58.59

Drawdown: 10.73 depth to GW (ft)

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station

Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-7	82.02	8.47	12-22	6/28/2022	1441

Drawdown: 8.53 depth to GW (ft)

Comments/Conditions:

DUP at 1446

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station
Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-6	83.84	11.58	12-22	6/28/2022	1322

Drawdown: 15.1 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)
1205	23.76	6.63	47	1760	12.5
1210	23.94	6.63	54	1760	8.1
1215	23.84	6.63	55	1760	6.7
1220	23.9	6.64	52	1760	7.3
1225	24.05	6.65	46	1760	5
1230	24.74	7.24	12	890	6.3
1233	24.2	6.59	32	1950	5.8
1236	22.96	6.62	22	1950	11.2
1313	22.56	6.61	-54	2500	16.7
1316	22.14	6.53	-69	2560	12.6
1319	22.31	6.53	-70	2560	13.7
1322	22.3	6.52	-71	2550	15

Comments/Conditions: Well ran dry so we stopped for 30 min to let it refill and resumed s

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-4	82.73	9.95	9.5 - 14.5	6/28/2022	1135

Drawdown: 10.59 depth to GW (ft)

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

Cross Generating Station Background Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
CBW-1	85.80	11.6	14-24	6/20/2022	1416

Drawdown: 11.62 depth to GW (ft)

CCR/Class 3 Landfill: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Sb, Se, Tl, Zn, dissolved As

Ra 226/228 Nitrate, TOC Cl, F, SO₄, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO₄, TDS

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

**Cross Generating Station
CCR Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
PM-1	83.24	9	4-24	6/20/2022	1531	26.29

Drawdown: 9.43 depth to GW (ft)

NPDES/CCR/Class 2 Landfill: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, K, Li, Mg, Mo, Na, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228 Nitrate, TOC Cl, F, SO₄, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO₄, TDS

Comments/Conditions:

Samples were collected by Trey West and Marvin Lewis

**Cross Generating Station
for CCR ACM Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-2	84.08	7.52	9.5-19.5	2/8/2022	1604	22.69

Drawdown: 7.48 depth to GW (ft)

—ORIGINALLY

Cobalt

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-1D	80.653	4.03	23 - 28	2/10/2022	1245	31.18

Drawdown: 4.39 depth to GW (ft)

CCR CMA Only---Cobalt

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

**Cross Generating Station
for CCR ACM Groundwater Monitoring Wells**

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMLF-1	80.862	4.18	10-15	2/10/2022	1142	18.39

Drawdown: 4.49 depth to GW (ft)

CCR CMA Only---Cobalt

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
POZ-8	83.13	6.37	44.5 - 55.5	1/31/2022	1029	58.87

Drawdown: 6.4 depth to GW (ft)

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station
Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-7	82.02	5.7	12-22	1/26/2022	1030

Drawdown: 5.8 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)
935	18.75	5.22	196	110	0
940	19	5.01	214	109	0
945	19.11	4.96	218	96	0
950	17.89	5.03	214	105	0
955	18.28	4.91	225	108	0
1000	18.41	4.89	229	115	0
1003	18.57	4.91	229	118	0
1006	18.7	4.95	228	127	0
1009	18.9	4.96	228	126	0
1012	19	4.97	228	130	1.2
1015	19.05	5.02	226	131	7.2
1018	19.27	5.06	225	139	7.5
1021	19.43	5.12	222	136	6.7
1024	19.31	5.25	216	145	5.9
1027	19.52	5.22	219	147	0.1
1030	19.58	5.25	217	144	0.4

Comments/Conditions:

DUP at 1035

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station

Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-6	83.84	6.37	12-22	1/25/2022	1504

Drawdown: 15.1 depth to GW (ft)

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station
Class 2 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
POZ-4	82.73	5.34	9.5 - 14.5	1/25/2022	1222

Drawdown: 5.94 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)
1127	18.6	6.66	159	1200	0
1132	18.5	6.41	395	1170	0
1137	18.12	6.4	453	1200	0
1142	18.12	6.38	471	1230	0
1147	18.24	6.37	306	1270	0
1152	18.51	6.35	157	1320	0.4
1155	18.66	6.34	134	1360	3.8
1158	18.81	6.32	95	1400	4.3
1201	18.91	6.33	75	1420	3.9
1204	18.98	6.32	59	1440	3.8
1207	18.99	6.33	47	1460	0.9
1210	19.01	6.33	39	1470	0
1213	18.99	6.33	33	1470	0
1216	19.09	6.31	29	1500	0
1219	19.19	6.29	26	1520	0
1222	19.3	6.3	24	1530	0

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station Background Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time
CBW-1	85.80	10.21	14-24	1/24/2022	954

Drawdown: 10.25 depth to GW (ft)

CCR/Class 3 Landfill: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Sb, Se, Tl, Zn, dissolved As

Ra 226/228 Nitrate, TOC Cl, F, SO₄, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO₄, TDS

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Cross Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
PM-1	83.24	8.32	4-24	1/24/2021	1140	26.68

Drawdown: 8.72 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1051	18.23	5.27	27	162	48.1	1.68
1056	18.82	5.09	11	149	20.9	0.67
1101	18.81	5.06	16	148	20.7	0.69
1106	19.07	5.11	29	148	17	0.71
1111	19.28	5.18	39	145	22.9	0.67
1116	19.16	5.18	45	147	18.2	0.64
1119	19.41	5.21	39	149	20.7	0.63
1122	19.52	5.24	35	146	17.2	0.61
1125	19.4	5.22	42	146	18	0.6
1128	19.55	5.21	41	147	20.9	0.56
1131	19.61	5.23	40	145	12.6	0.54
1134	19.55	5.25	40	146	16	0.54
1137	19.6	5.25	41	147	14.8	0.52
1140	19.48	5.19	45	146	13.8	0.53

NPDES/CCR/Class 2 Landfill: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, K, Li, Mg, Mo, Na, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228 Nitrate, TOC Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Appendix C – Well Installation Record



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name: Santee Cooper (last) (first) Address: 1 Riverwood Dr City: Moncks Corner State: SC Zip: Telephone: Work: Home:		7. PERMIT NUMBER: SC0037401		
2. LOCATION OF WELL: COUNTY: Berkeley Name: Cross Generating Station Street Address: Cross Sta Rd City: Pineville Zip: Latitude: Longitude:		8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement		
		9. WELL DEPTH (completed) Date Started: 11/28/22 19' ft. Date Completed: 11/29/22		
		10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam.: 2" Type: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 2" in. to 9' ft. depth _____ in. to _____ ft. depth	Height: Above/Below Surface _____ ft. Weight _____ lb./ft. Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03366		11. SCREEN: Type: PVC Diam.: 2" Slot/Gauge: 0.010" Length: 10' Set Between: 9' ft. and 19' ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET _____ ft. and _____ ft. Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No		
4. ABANDONMENT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.		12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours		
see Geologist Logs		13. PUMPING LEVEL Below Land Surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield: _____		
		14. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results.		
		15. ARTIFICIAL FILTER (filter pack) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 7' ft. to 19' ft. Effective size #2 Uniformity Coefficient _____		
		16. WELL GROUTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth: From 0' ft. to 7' ft.		
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type: _____ Amount: _____		
		18. PUMP: Date installed: _____ Not installed <input checked="" type="checkbox"/> Mfr. Name: _____ Model No.: _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		19. WELL DRILLER: William Walker CERT. NO.: 2042 Address: (Print) _____ PO Box 8446 Columbia, SC 29202 Telephone No.: 803-351-7930 Fax No.: _____		
5. REMARKS: CGS PZ-4		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.		
		Signed: _____ Date: 12/29/22 Well Driller		
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other		If D Level Driller, provide supervising driller's name: _____		



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: Santee Cooper
(last) (first)

Address: 1 Riverwood Dr

City: Moncks Corner State: SC Zip:

Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Berkeley

Name: Cross Generating Station

Street Address: Cross Sta Rd

City: Pineville Zip:

Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

03366

4. ABANDONMENT: Yes No

Give Details Below

Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
see Geologist Logs		

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

5. REMARKS:

CGS PZ-5

6. TYPE:

<input type="checkbox"/> Mud Rotary	<input type="checkbox"/> Jetted	<input checked="" type="checkbox"/> Bored
<input type="checkbox"/> Dug	<input type="checkbox"/> Air Rotary	<input type="checkbox"/> Driven
<input type="checkbox"/> Cable tool	<input type="checkbox"/> Other	

7. PERMIT NUMBER:

SC0037401

8. USE:

- | | | |
|--------------------------------------|--------------------------------------------------|--------------------------------------|
| <input type="checkbox"/> Residential | <input type="checkbox"/> Public Supply | <input type="checkbox"/> Process |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Air Conditioning | <input type="checkbox"/> Emergency |
| <input type="checkbox"/> Test Well | <input checked="" type="checkbox"/> Monitor Well | <input type="checkbox"/> Replacement |

9. WELL DEPTH (completed)

Date Started: 11/28/22

16' ft.

Date Completed: 11/29/22

10. CASING:

Threaded Welded

Diam.: 2"

Type: PVC Galvanized

Steel Other

2" in. to 6' ft. depth

in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? Yes No

11. SCREEN:

Type: PVC Diam.: 2"

Slot/Gauge: 0.010" Length: 10'

Set Between: 6' ft. and 16' ft.

NOTE: MULTIPLE SCREENS

USE SECOND SHEET

Sieve Analysis Yes (please enclose) No

12. STATIC WATER LEVEL

ft. below land surface after 24 hours

13. PUMPING LEVEL

Below Land Surface.

ft. after _____ hrs. Pumping _____ G.P.M.

Pumping Test: Yes (please enclose) No

Yield: _____

14. WATER QUALITY

Chemical Analysis Yes No Bacterial Analysis Yes No

Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack)

Yes No

Installed from 3.5' ft. to 16' ft.

Effective size #2 Uniformity Coefficient _____

16. WELL GROUTED?

Yes No

Neat Cement Bentonite Bentonite/Cement Other _____

Depth: From 0' ft. to 3.5' ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

ft. direction Type _____

Well Disinfected Yes No Type: _____ Amount: _____

18. PUMP:

Date installed: _____ Not installed

Mfr. Name: _____ Model No.: _____

H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm

TYPE: Submersible Jet (shallow) Turbine

Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER:

William Walker CERT. NO.: 2042

Address: (Print) Level: A B C D (circle one)

PO Box 8446

Columbia, SC 29202

Telephone No.: 803-351-7930

Fax No.: _____

20. WATER WELL DRILLER'S CERTIFICATION:

This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 12/29/22

Well Driller

If D Level Driller, provide supervising driller's name: