# 2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CLASS 3 LANDFILL AREA 1 AND CLOSED UNIT 2 SLURRY POND WINYAH GENERATING STATION

by Santee Cooper Moncks Corner, South Carolina

**January 31, 2024** 

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Title

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#### 1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2023 Annual Groundwater Monitoring Corrective Action Report for multiple CCR units; the closed coal combustion residuals (CCR) management unit referred to as the Closed Unit 2 Slurry Pond and the currently operational Class 3 Landfill Area 1 located at the Winyah Generating Station (WGS) in Georgetown, South Carolina. This 2023 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of CCR from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated 17 April 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

The WGS closed Unit 2 Slurry Pond and the Class 3 Landfill Area 1 are two CCR units with a shared footprint. Accordingly, this Annual Report addresses groundwater monitoring requirements for both CCR units. Of note, the Unit 2 Slurry Pond was an inactive CCR Pond as defined by 40 CFR § 257.53 prior to, and following, the effective date of the CCR Rule. Santee Cooper filed a Notice of Intent (NOI) to initiate closure of the Unit 2 Slurry Pond and placed the NOI in the facility's operating record in December 2015. The South Carolina Department of Health and Environmental Control (SCDHEC) certified closure by removal was complete in accordance with SCDHEC regulations on November 9, 2017. Afterwards, Santee Cooper constructed the Class 3 Landfill Area 1 within the footprint of the fully excavated and closed Unit 2 Slurry Pond. Because both units occupy the same space, the groundwater monitoring network installed to monitor the Class 3 Landfill Area 1 is also appropriate for the closed Unit 2 Slurry Pond and complies with § 257.91. Santee Cooper certified closure by removal on July 10, 2023, for the closed Unit 2 Slurry Pond in accordance with § 257.102(c) "Criteria for conducting the closure or retrofit of CCR units".

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, 2023), the Class 3 Landfill Area 1 continued to operate under a detection monitoring program in accordance with § 257.94 and the closed Unit 2 Slurry Pond continued under an assessment monitoring program in accordance with § 257.95, which was initiated on December 12, 2019. As a result of successful alternate source demonstrations (ASD) completed September 2019 and October 2022, Appendix III constituents were analyzed for the Class 3 Landfill Area 1 for statistically significant increases (SSIs) using an intrawell statistical test consistent with the Unified Guidance, while Appendix IV constituents were analyzed for the Closed Unit 2 Slurry Pond using an interwell statistical test to determine if statistically significant levels (SSLs) were present downgradient of the units above groundwater protection standards (GWPS).

An SSI of chloride at monitoring well WAP-7 was identified for the Class 3 Landfill Area 1 in the February/March 2023 groundwater monitoring event. An SSI for fluoride was identified in monitoring well WAP-7 during the June/July 2023 groundwater monitoring event. The two successful ASDs provided multiple lines of evidence that the Class 3 Landfill Area 1 was not a contributing source for these SSIs. Therefore, at the end of the current annual reporting period (December 31, 2023), the Class 3 Landfill Area 1 remained in detection monitoring.

For the closed Unit 2 Slurry Pond in 2023, SSLs above the GWPS were not identified in either the February/March or July 2023 groundwater monitoring events. On July 10, 2023, closure by removal of the closed Unit 2 Slurry Pond was certified because it met the criteria of § 257.102(c) in that all CCR had

been removed and all Appendix IV parameters met the GWPS. Therefore, at the end of the current annual reporting period (December 31, 2023), the closed Unit 2 Slurry Pond no longer requires groundwater monitoring.

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 co-located Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond at the WGS are subject to the groundwater monitoring and corrective action requirements set forth by the EPA in the Code of Federal Regulations 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 Groundwater Monitoring and Corrective Action 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 new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. 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 2023 for the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond at WGS as required by the Groundwater Monitoring and Corrective Action regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.94 and § 257.95, is provided in this report.

#### 2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

SSIs of Appendix III constituents (boron, calcium, chloride, pH, sulfate, and total dissolved solids) were identified in multiple downgradient wells for the groundwater monitoring system established for the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond; therefore, notification was provided, and an evaluation of alternate sources was conducted for the Class 3 Landfill Area 1. A successful ASD completed in October 2019 concluded that the excavated and closed Unit 2 Slurry Pond was responsible for the Appendix III SSIs and the Class 3 Landfill Area 1 was not the source. Notification that an assessment monitoring program was initiated for the closed Unit 2 Slurry Pond was posted on the facility's CCR website on December 12, 2019, while the Class 3 Landfill Area 1 continued in detection monitoring.

Consistent with the Unified Guidance and in response to the certified October 2019 ASD conducted for the Appendix III SSIs, the Class 3 Landfill Area 1 transitioned to using intrawell statistical analysis, which compares the most recent detection monitoring result to the background values calculated for the individual constituents in each well. The closed Unit 2 Slurry Pond continued using interwell statistical analysis which compares the most recent values from downgradient compliance wells against a background dataset for the upgradient well.

New SSIs of boron, chloride, and fluoride were identified for the Class 3 Landfill Area 1 in 2022. Because these were new SSIs associated with monitoring the Class 3 Landfill Area 1, a second ASD was conducted to evaluate the potential that the Class 3 Landfill Area 1 could be a contributing source to the SSIs. The second successful ASD substantiated the findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. This successful ASD which again identified the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill Area 1's Appendix III SSIs, was completed and placed in the operating record on October 25, 2022. SSIs in the 2023 groundwater monitoring events are consistent with the findings of the ASDs, therefore the Class 3 Landfill Area 1 remains in Detection Monitoring program as required by § 257.94(e)(2).

Regarding the closed Unit 2 Slurry Pond, SSLs above the GWPS were not identified in either the February/ March or June/July 2023 groundwater monitoring events for the Assessment Monitoring Program. On July 10, 2023, closure by removal of the closed Unit 2 Slurry Pond was certified because it met the criteria of § 257.102(c) in that all CCR had been removed and all Appendix IV parameters met the GWPS. As a result, the closed Unit 2 Slurry Pond no longer requires groundwater monitoring. The statistical analyses are provided in Appendix A and the closure certification is provided in Appendix C.

#### 2.2.2 Key Actions Completed

The following key actions were completed in 2023:

- Prepared 2022 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 two rounds of groundwater monitoring (February/March and June/July) in accordance with § 257.94 and § 257.95 and recorded the concentrations in the facility's operating record as required by § 257.94(f) and § 257.95(i). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B;
- Completed statistical evaluations to determine statistically significant increases for Appendix III constituents and statistically significant levels for Appendix IV constituents in accordance with § 257.93(h)(2) (Appendix A);
- Certified closure by removal is complete in accordance with § 257.102 (c) and § 257.102 (f)(3) for the closed Unit 2 Slurry Pond (Appendix C) and the notification stating that the remedy has been completed was placed in the operating record;
- Continued improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions 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; and
  - Although neither the closed Unit 2 Slurry Pond nor the operating Class 3 Landfill Area 1 are a source of hydraulic head or groundwater recharge, the water surface elevations of other WGS 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.
- Both the Sampling and Analysis Plan and the Groundwater Monitoring Plan for Winyah
  Generating Station were updated to reflect changes in site conditions and procedures on August
  18<sup>th</sup>, 2023, and October 2<sup>nd</sup>, 2023, respectively.

#### 2.2.3 Problems Encountered

No problems were encountered.

#### 2.2.4 Actions to Resolve Problems

Not applicable.

#### 2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2024 include the following:

- Prepare the 2023 annual report; place it in the operating record as required by § 257.105(h)(1), notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring for the Class 3 Landfill Area 1 as required by § 257.94.
- Conduct statistical analysis of the Detection Monitoring analytical data to determine if SSIs of the detected Appendix III constituents are present for the Class 3 Landfill Area 1 and verify ongoing validity of the certified October 2019 and October 2022 ASDs.

- 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 other WGS 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 §257.90(e)(1) AERIAL IMAGE OF GROUNDWATER MONITORING PROGRAM

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 location of the co-located closed Unit 2 Slurry Pond and the Class 3 Landfill Area 1 and associated upgradient and downgradient monitoring wells is included in this report as Figure 1. The groundwater monitoring network meets the requirements of §257.91 for both of these co-located units.

#### 2.3.2 §257.90(e)(2) ADJUSTMENTS TO GROUNDWATER MONITORING PROGRAM

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;

Monitoring wells were neither installed nor decommissioned during 2023.

#### 2.3.3 §257.90(e)(3) SUMMARY OF GROUNDWATER ANALYSIS

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 [upgradient] and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

Two independent samples from each background and downgradient monitoring well were collected and analyzed to satisfy the detection monitoring requirements for the Class 3 Landfill Area 1 and the assessment monitoring requirements for the closed Unit 2 Slurry Pond. A summary table including the sample names, dates of sample collection, reason for sample collection (detection or assessment), and monitoring data obtained for the groundwater monitoring program for the closed Unit 2 Slurry Pond and Class 3 Landfill Area 1 is presented in Table 1 of this report. In addition, as required by § 257.95(d)(3), Table 1 includes the

groundwater protection standards established under § 257.95(d)(2). Laboratory analytical packages, along with field sampling forms, are provided in Appendix B.

#### 2.3.4 §257.90(e)(4) CURRENT GROUNDWATER MONITORING PROGRAM

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);

As required by §257.93(h), Haley & Aldrich performed a statistical analysis of the Appendix III and IV constituents detected in groundwater downgradient of the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond to evaluate the potential for SSIs and SSLs, respectively. A summary of the statistical evaluation is provided in Appendix A of this report. As in previous years, SSLs of Appendix IV constituents in the Assessment Monitoring Program for the closed Unit 2 Slurry Pond were not identified in either of the 2023 monitoring events.

As noted earlier in this Annual Report, new SSIs of boron, chloride, and fluoride were identified for the Class 3 Landfill Area 1 in 2022. Because these were new SSIs associated with monitoring the Class 3 Landfill Area 1, a second ASD was conducted to evaluate the potential of Class 3 Landfill Area 1 as a contributing source to the SSIs. The second successful ASD supported the findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. This successful ASD which again identified the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill Area 1's Appendix III SSIs, was completed and placed in the operating record on October 25, 2022. SSIs in the 2023 groundwater monitoring events are supported by these two successful ASDs, therefore the Class 3 Landfill Area 1 remains in Detection Monitoring program as required by § 257.94(e)(2).

Regarding the closed Unit 2 Slurry Pond, SSLs above the GWPS have not been identified since it entered assessment monitoring in December 2019. Consistent with historical results, SSLs above the GWPS were not identified in either the February/ March or June/July 2023 groundwater monitoring events for the Assessment Monitoring Program. On July 10, 2023, closure by removal of the closed Unit 2 Slurry Pond was certified because it met the criteria of § 257.102(c) in that all CCR had been removed as certified November 2017, and all Appendix IV parameters have consistently met the GWPS since assessment monitoring commenced in December 2019. As a result, the closed Unit 2 Slurry Pond no longer requires groundwater monitoring, and the monitoring of Appendix IV constituents has ceased. The 2023 statistical analyses are provided in Appendix A and the closure certification is provided in Appendix C.

#### 2.3.5 §257.90(e)(5) OTHER REQUIRED INFORMATION

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 § 257.94 of the Rule. There are no applicable requirements from Sections § 257.95 through § 257.98.

Groundwater flow rate and direction are provided as Figures 2, 3, 4, and 5 for each synoptic water level event as specified in § 257.93(c).

As the number of groundwater monitoring wells and associated samples have increased considerably across the site since the promulgation of the CCR Rule in 2015, turnaround times for labs have increased compared to historical expectations. Average turnaround times were approximately 60 days in 2023. Additionally, expansion of the groundwater monitoring networks (i.e., wells and samples) has contributed to a significant increase in data volume and complexity.

# **TABLES**

Table 1 - Summary of Analytical Results Winyah Generating Station Class 3 Landfill Area 1 Detection Monitoring and Closed Unit 2 Slurry Pond Assessment Monitoring 2023

Γ	Dissolved Oxygen	mdd		-		0.690	0.670	2		. 20	1.78	0.740	2	0.810	0.680	2		0.680	0.790	2	096'0	0.650	0.480	6	1.34	Ι	0.630		2	0.820		0.670	2
	Turbidity Dis	NTU		1		0	3.50	2			0	02.7	2	3.10	1.90	2		7.80	2.50	2	1.70	2.30	13.3	m	5.30		1.90		2	0		0	2
	Oxidation Tu Reduction Potential	L	SM2580	1	-	42.0	-47.0	2		0.00	80.0	-550	2	-22.0	-122	2		90.0	42.0	2	0.96	29.0	111	6	48.0		-56.0		2	-45.0		-72.0	2
			88			20.0	23.3	2		0.00	21.0	28.8	2	24.4	24.6	2		21.3	23.2	2	21.2	28.9	25.3	n	21.3		26.5		2	263		28.1	2
Field Parameters	ty Temperature	٥		I		508	731	2		-	1200	2340	2	1900	1920	2		367	165	2	182	166	136	60	365		423		2	1850		1380	2
Field	Specific Conductivity	Su.		ı		- 4	0	2					2			2		6	0	2	4	10	6	20					2				2
	¥	ns		ı		4.17	4.60				9.50	6.40		6.30	90'9			809	4,45		4.34	4.45	3399		623		6.37			7.01		6.81	
	Groundwater Elevation	Feet		ı		22.4	21.2	2		9.00	21.2	20.3	2	23.9	23.3	2		22.7	21.2	2	22.3	20.7	22.1		22.5		21.0		2	22.6		23.0	2
	Depth to Groundwater	Feet		ı		5.74	6.94	2			8.75	9.67	2	17.5	18.1	2		6.50	8.01	2	6.02	7.60	6.19		5.77		7.26		2	19.1		14.7	2
	Thatlum	ugil	EPA 6020B	2.00		<1.00	<1.00	2			<1.00	<1.00	2	<1.00	<1.00	2		<1.00	<1.00	2	<1.00	<1.00		2	<1.00	<1.00	<1.00	<1.00	7	<1.00		<1.00	2
	E	ng/L	EPA 6020B			<20.0		1			<10.0					0				0				0					0				0
	Selenium	ugıl	00	88.0			<10.0	,		0.00	<20.0	<20.0	2	<20.0	<10.0	2		<20.0	<10.0	2	<20.0	<20.0		2	<20.0	<20.0	<20.0	<20.0	4	<20.0	0.00	<10.0	2
	Radium 226/228 Combined	pcvr	EPA 903.1 Mod	00'9		3.51	1.24	2		-	2.55	2.96	2	0.644	1.43	2		3.38	4.17	2	3.09	3.61		2	0.482	699'0	2.34	3.13	4	386		2.19	2
	Radium 228	H	EPA 904.0	ı		1.80	0.544	2			1.71	2.51	2	-0.250	0.458	2		2.28	2.87	2	1.77	3.55		2	-0.0291	-0.788	1.28	2.81	4	2.60		1.17	2
	Radium 226 R	H	EPA 903.1 Mod	ı		121	76970	2		0.000	0.835	0.446	2	0.644	0.970	2		171	1.30	2	1.32	0.0803		2	0.482	696'0	1.06	0.321	4	132		1.03	2
	Molybdenum R	-	EPA 6010D E	100		<10.0	×5.00	2			<5.00	45.00	2	<10.0	<5.00	2		<10.0	<5.00	2	<10.0	<5.00		2	<10.0	<10.0	<5.00	<5.00	4	<10.0		<2.00	2
	Mercury Mo	⊢	EPA 7470 E	2.00		0.200	<0.200	2		0.000	<0.200	<0.200	2	<0.200	<0.200	2		<0.200	<0.200	2	<0.200	<0.200		2	<0.200	<0.200	<0.200	<0.200	4	<0.200	0.000	×0.200	2
stillments	Lithium		EPA 6010D E	40.0		<5.00	-S.00	2			<5.00	45.00	2	<5.00	<5.00	2		<5.00	<0.00	2	<5.00	<5.00		2	45.00	<5.00	<5.00	<5.00	4	7.24		0.11	2
nnendly N Constitute	Lead	H	80	15.0		<2.50	<1.00	2			<1.00	<2.50	2	<2.50	<1.00	2		<2.50	<1.00	2	<2.50	<2.50		2	<2.50	<2.50	<2.50	<2.50	4	<2.50		<1.00	2
,	Fluoride	L	EPA 300.0 EP	4.00		<0.100	-0.100	2			<0.100	0.150	2	<0.100	<0.100	2		<0.100	<0.100	2	<0.100	<0.100		2	-0.100	<0.100	<0.100	<0.100	4	40,100		40.100	2
	Cobalt	_	EPA 6020B EP	00.0		-0.500	*0.500	2		0.00	40.500	40.500	2	<0.500	<0.500	2		2.15	0.650	2	1.03	0.810	l	2	-0.500	*0.500	-0.500	009'0>	7	40.500	000.0	40.500	2
		-	EPA 6020B EPA	100		<5.00		2			42.00	45.00	2	<5.00	<5.00	2		45.00	<5.00	2	o0'9>	<5.00		2	<5.00	×8.00		<5.00	4	45,00		42.00	2
	num Chromlum		EPA 6020B EPA 6	5.00		-0.500	-0.500	2		400	<0.500	-0.500	2	40.500	-0.500	2		40.500	40.500	2	-0.500	-0.500		2	-0.500	-0.500	-0.500	40.500	4	40.500		-0.500	2
	lum Cadmlum		EPA 6020B EPA 6	700 81		<0.500		2				<0.500	2	<0.500	<0.500	2		<0.500	<0.500	2	<0.500	<0.500		2	-0.500	<0.500		<0.500	4	40,500		×0.500	2
	mm Beryffum		EPA 6020B EPA 6			88.5		2			38.8	42.8	2	51.1	54.5	2			21.9	2	29.9	32.8		2	35.5	36.2		38.4	4	34.9		32.8	2
	nic Barkım			0 2000		<3.00	<5.00	2			<5.00	<3.00	2	<3.00	<5.00	2		<3.00	<5.00	2	8.46	10.7	7.50	8	<3.00	<3.00	<3.00	<3.00	4	<3.00		4200	2
	ny Arsenio		20B EPA 6020B	10.0		<5.00		2				<5.00	2	<5.00	<5.00	2			<5.00	2	<5.00	<5.00		2	<5.00	<5.00		<5.00	4	45.00		<5.00	2
ŀ	Antimony	Г	EPA 6020B	25.0	L		+ 80	2			5.50	6.40	2	6.30	90'9	2		209	4.45	2	4.34	4.45	3.99	6	639	Ĺ	637	Ĺ	2	7.01		6.81	2
	¥.	ns		I		389		2			1105	2362	2	1578	1622 (	2	L	260	97.5	2	119	101		2	354	386		338	7	1132		1121	2
	Total Dissolved Solids	-	3.0 SM 2540C	ı	L	234		2			429	1270	2	739 15	849 16	2		144	41.6	2	76.1	67.9		2	74.8			92.2	*	422		378	2
,	Sulfate	-	1.0 EPA 300.0	I		<0.100		2				0.150	2	<0.100	<0.100	2			<0.100 4	2	-0.100	<0.100		2	-0.100	40,100		<0.100	4	-0.100		-0.100	2
v III Constitutions	Chloride Fluoride	-	.0 EPA 300.0	4.00	L	14.7 <0.1	11.6 -0.1	2			67.7 <0.1	73.4 0.1	2	20.1 <0.1	17.8 <0.1	2			2.32 <0.1	2	4.83 <0.1	5.16 <0.1		2	11.4 40.1	1.0.7	14.1 <0.1	14.1 <0.1	*	153 <0.1		101	2
Annound	Chloride		D EPA 300.0	ı		1		-		ľ	9	72		433 20		2				2				2					4			298	2
	Calclum	L mg/L	120B EPA 6010D	1		85.6	121			****	202	8		*	426	0		62.9	25.0	0	20.4	18.7		0	85.5	92.3	90.2	0.88	0	287		ĸ	0
	5	" mg/c	EPA 6010D EPA 6020B	-		699	60.2	2		-	828	3690	2	1070	76.3	2		220	810	2	178	202		2	589	238	204	211	4	2020		1990	2
ŀ	Boron	Unit	_	GWPS/ US EPA MCL/RSL						1											+									1	+		
L	Laboratory Sample ID Number	5	Met	OW US E		AF56432	AF68749		I	Wells	AF56400	AF68717		AF56433	AF68750			AF56434	AF68751		AF56435	AF68752	AF79070		AF56436	AF56437	68753	AF68754		AF56438	-	AF68755	
	Date of Labo Sample Sam Event Nur					_	7/12/2023 AFB		1	t 2 Shury Pono		6/27/2023 AF6		2/28/2023 AF5	7/10/2023 AFB				7/10/2023 AF6		2/28/2023 AFB	7/6/2023 AF6	9/27/2023 AF7		2/28/2023 AFS	2/28/2023 AFS		7/6/2023 AF6		2/28/2023 AFS	_	7/10/2023 APB	
	Purpose Dat San				ē	Background 2/1.	Background 7/1;	total samples		pag		Detection/ 6/2	total samples	Detection/ 2/2/	_	total samples			Detection/ 7/10 Assessment	total samples	Detection 2/2	H		total samples	Detection 2/2	۰	Detection/ 7A	Duplicate 7/	total samples	+	+	Assessment 7/1	total samples
						H	_			3 Landfill Are											╫	-			┢	H		_		+	+	-	
L	WellD					WBW-At-1	WBW-A1-1	WBW-A1-1		Class	WAP-7	WAP-7	WAP-7	WLF-A1-1	WLF-A1-1	WLF-A1-1		WLF-A1-2	WLF-A1-2	WLF-A1-2	WLF-A1-3	WLF-A1-3	WLF-A1-3	WLF-A1-3	WLF-A1-4	WLF-A1-4	WLF-A1-4	WLF-A1-4	WLF-A1-4	WLF-A1-5		WLF-A1-5	WLF-A1-5

Notes: 1. All groundwater samples collected from the monitoring wells were analyzed by Subur Cardina debratories: Santee Cooper Analytical Services (Certification # 10120), Eurofins Sanawath (Certification # 98001), Rages & Califoci, Inc. (Certification # 2010500), and Pace Analytical Services LLC (Certification # 99001).

All Background, Detection Monitoring A Assessment Monitoring compliance walls have been sampled to mee ig 527.94 and § 257.95.
 Due to challenges with indocatory delays, all groundwater samples were not analyzed by a single indocatory. This accounts for the majority of the reporting limit variability. Matrix interference
 Depth to groundwater is messured below the top of the casing (bloc) to the water surface. Elevation is shown relative to mean sea level (ms).

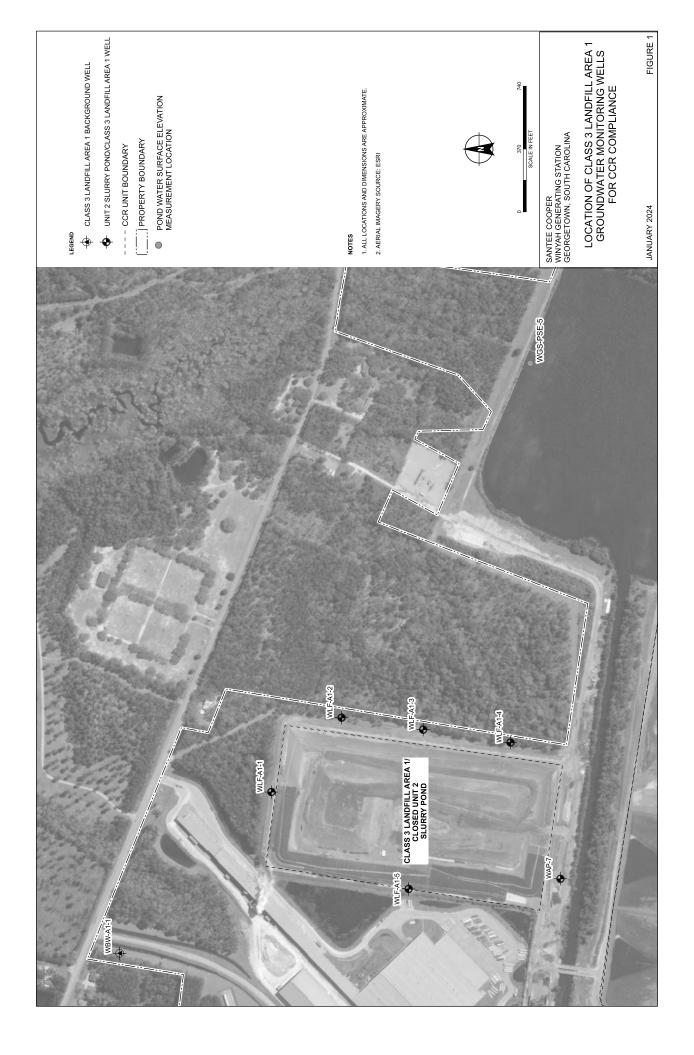
Table 2
Winyah Generating Station
2023 Synoptic Water Levels for Groundwater Monitoring Wells

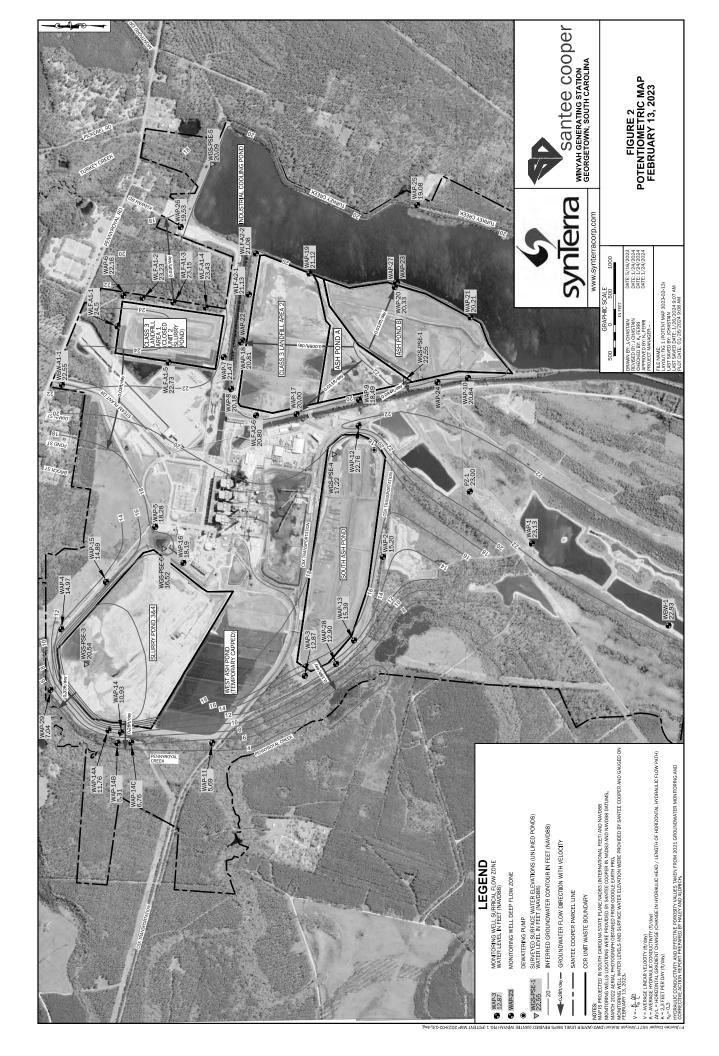
		4				Monitoring Wells	= /4.0 /0.000	4.1 =	14 /4 4 /0000
			2/13/2023		- 5/8/2023		7/19/2023	4th Event - 3	
	Top of Casing	Depth to	Groundwater						
Well Name	Elevation	Groundwater	Elevation	Groundwater	Elevation	Groundwater	Elevation	Groundwater	Elevation
	(ft msl) <sup>2</sup>	(ft btoc) <sup>2</sup>	(ft msl) <sup>2</sup>						
WBW-1	31.97	9.04	22.93	9.54	22.43	9.15	22.82	8.70	23.27
PZ-1	31.25	8.25	23.00	9.78	21.47	9.31	21.94	9.30	21.95
WAP-1	29.44	6.31	23.13	7.35	22.09	6.92	22.52	6.60	22.84
WAP-2	23.69	8.49	15.20	9.15	14.54	9.96	13.73	9.45	14.24
WAP-3	14.56	6.56	8.00	8.34	6.22	8.09	6.47	8.85	10.58
WAP-4	20.34	5.37	14.97	8.13	12.21	6.44	13.90	8.20	12.14
WAP-5 <sup>1</sup>	26.25	7.97	18.28	8.90	17.35	8.84	17.41	9.65	16.60
WAP-6 <sup>1</sup>	30.98	8.82	22.16	9.61	21.37	9.35	21.63	9.00	21.98
WAP-7	29.94	8.47	21.47	10.25	19.69	9.63	20.31	10.40	19.54
WAP-8 <sup>1</sup>	30.38	10.20	20.18	11.45	18.93	11.08	19.30	11.55	18.83
WAP-9	28.04	9.55	18.49	10.42	17.62	10.23	17.81	10.85	17.19
WAP-10	26.11	5.27	20.84	6.32	19.79	6.17	19.94	6.85	19.26
WAP-11 <sup>1</sup>	9.55	3.86	5.69	5.51	4.04	5.29	4.26	5.45	4.10
WAP-12	30.84	8.08	22.76	9.92	20.92	10.08	20.76	10.75	20.09
WAP-13	21.97	6.58	15.39	7.47	14.50	7.55	14.42	10.00	11.97
WAP-14	14.69	3.76	10.93	5.33	9.36	4.09	10.60	4.90	9.79
WAP-14A	13.95	2.19	11.76	3.78	10.17	2.89	11.06	3.75	10.20
WAP-14B	9.23	3.92	5.31	5.60	3.63	5.19	4.04	5.40	3.83
WAP-14C	13.88	7.12	6.76	10.62	3.26	9.35	4.53	10.50	3.38
WAP-15	20.41	5.52	14.89	7.42	12.99	6.35	14.06	7.60	12.81
WAP-16	25.08	6.89	18.19	7.94	17.14	9.49	15.59	10.50	14.58
WAP-17	26.88	6.88	20.00	6.80	20.08	6.77	20.11	7.65	19.23
WAP-18	31.04	10.23	20.81	11.34	19.70	11.09	19.95	11.25	19.79
WAP-19	43.39	22.27	21.12	23.51	19.88	23.13	20.26	23.02	20.37
WAP-20 <sup>4</sup>	43.08	22.75	20.33	22.53	20.55	22.51	20.57	-	-
WAP-21	43.06	22.85	20.21	24.28	18.78	24.43	18.63	24.27	18.79
WAP-22	30.48	9.61	20.87	12.08	18.40	10.37	20.11	10.75	19.57
WAP-23	43.23	22.78	20.45	24.71	18.52	24.01	19.22	24.33	18.90
WAP-24	28.77	8.24	20.53	9.02	19.75	8.91	19.86	9.45	19.32
WAP-25	27.10	8.02	19.08	8.94	18.16	8.73	18.37	8.90	18.20
WAP-26	27.56	8.03	19.53	9.31	18.25	8.87	18.69	9.40	18.16
WAP-27	43.25	22.40	20.85	24.24	19.01	23.66	19.59	23.77	19.41
WAP-28	23.09	10.19	12.90	10.83	12.26	10.98	12.11	11.35	11.74
WAP-29	12.34	5.30	7.04	7.65	4.69	7.11	5.23	7.95	4.39
WBW-A1-1	28.14	5.59	22.55	7.47	20.67	6.61	21.53	7.00	21.14
WLF-A1-1	41.35	16.85	24.50	18.64	22.71	17.51	23.84	17.90	23.45
WLF-A1-2	29.21	5.98	23.23	7.81	21.40	7.38	21.83	7.60	21.61
WLF-A1-3	28.31	5.16	23.15	7.46	20.85	7.00	21.31	7.25	21.06
WLF-A1-4	28.24	4.81	23.43	7.20	21.04	6.72	21.52	7.05	21.19
WLF-A1-5	37.64	14.91	22.73	15.04	22.60	14.57	23.07	16.35	21.29
WLF-A2-1	30.04	8.91	21.13	10.40	19.64	10.14	19.90	10.40	19.64
WLF-A2-2	27.56	6.48	21.08	8.06	19.50	7.66	19.90	10.05	17.51
WLF-A2-6	35.14	14.34	20.80	15.17	19.97	14.94	20.20	15.80	19.34
WGS-PSE-1 <sup>3</sup>	-	-	22.55	-	21.22	-	21.43	-	21.87
WGS-PSE-2 <sup>3</sup>	-	-	33.01	-	32.74	-	32.71	-	32.76
WGS-PSE-3 <sup>3</sup>	-	-	20.54	-	19.11	-	17.93	-	18.19
WGS-PSE-4 <sup>3</sup>	-	-	17.22	-	17.38	-	15.84	-	16.69
WGS-PSE-5 <sup>3</sup>	=	-	20.09	-	19.35	-	19.27	-	19.23
WGS-PSE-6 <sup>3</sup>	-	-	16.52	-	15.29	-	NA	-	15.21

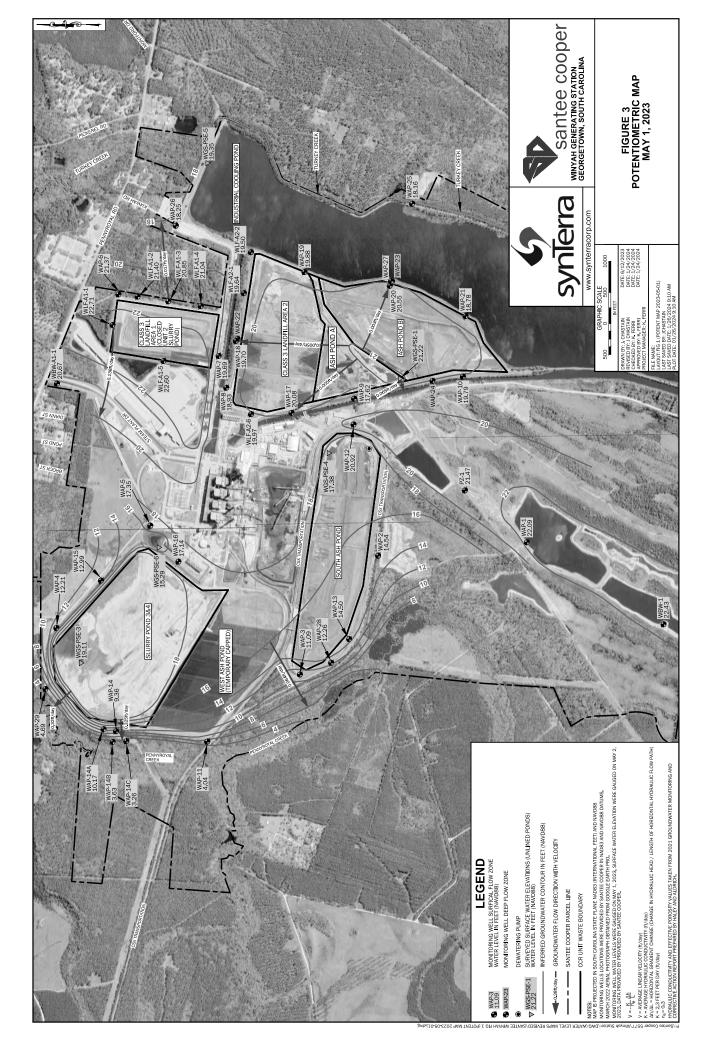
Notes:

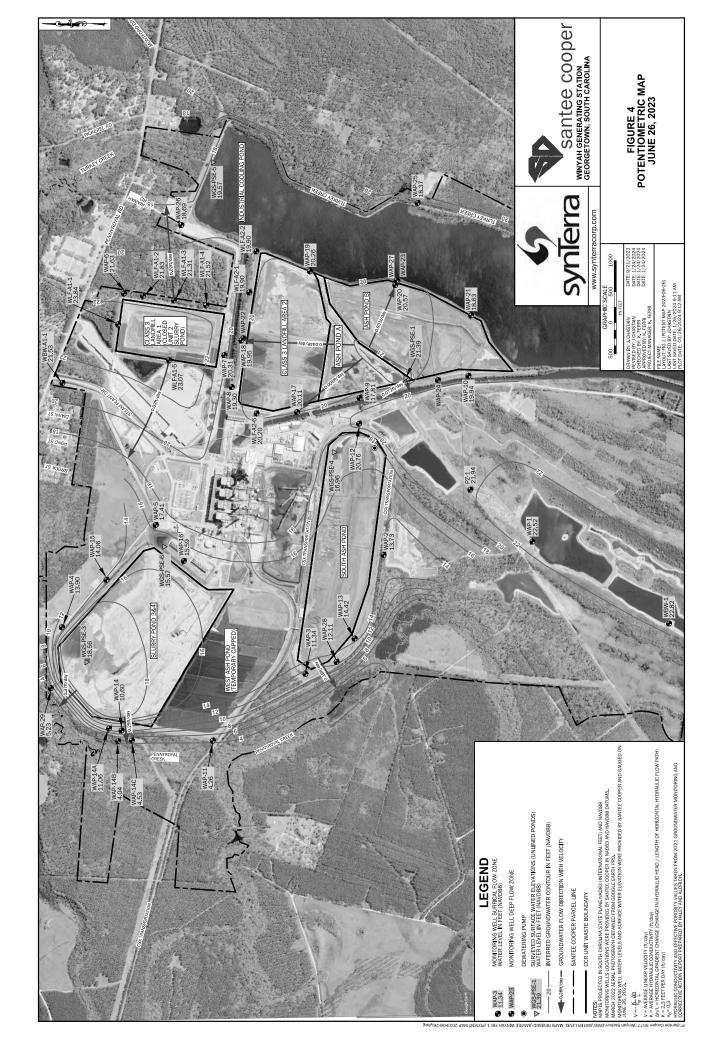
- 1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentration under the SC DHEC Industrial Wastewater Permit #SC0022471 and are not used for CCR constituent concentrations.
- 2. Depth to Groundwater is measured below 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. Pond surface elevations (PSE) were collected ot aid in the potentiometric surface interpretation. No surface water present at PSE-6 during 3rd event, so unable to collect surface water elevation.
- 4. Unable to collect groundwater data during November event due to the monitoring well going dry.

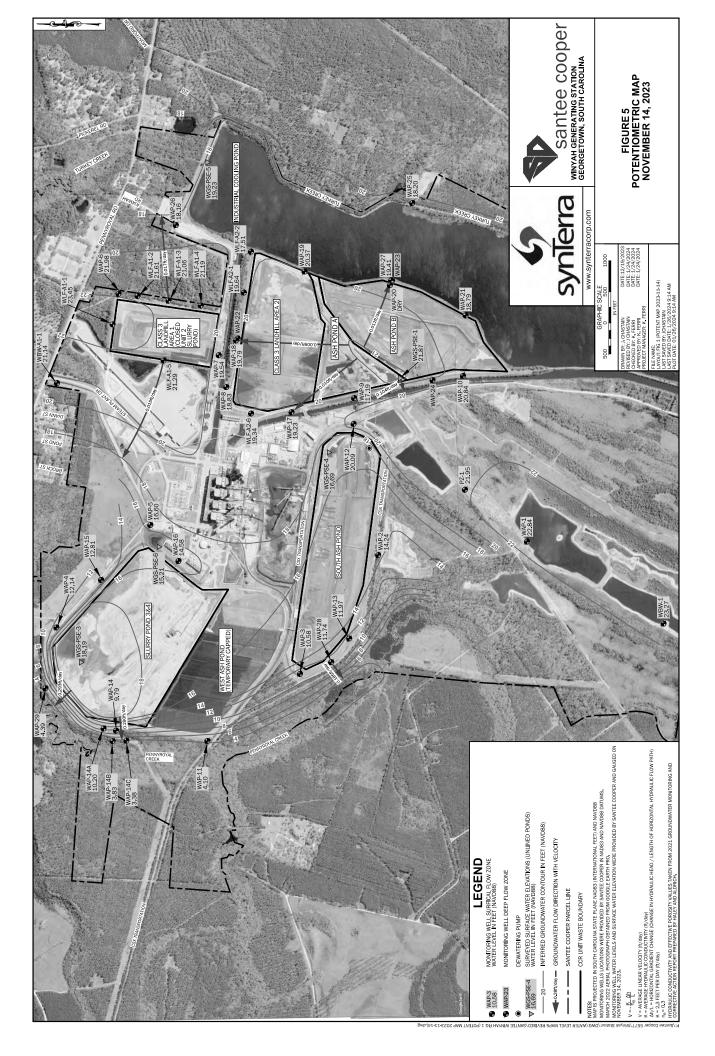
# **FIGURES**











Appendix A – Statistical Analysis



HALEY & ALDRICH, INC. 400 Augusta Street Suite 100 Greenville, SC 29601 864.214.8750

#### **TECHNICAL MEMORANDUM**

July 26, 2023 File No. 132892-001-007-02

SUBJECT: Statistical Evaluation of the February 2023 Semiannual Groundwater Detection

Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 1

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the February 2023 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 1. Data for this groundwater sampling event were validated on May 30, 2023 by Santee Cooper.

#### **BACKGROUND**

After completion of baseline sampling, the initial statistical analysis identified statistically significant increases (SSIs) for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. During the previous groundwater sampling event, boron, chloride, and fluoride were the only Appendix III constituents detected as SSIs. Recognizing the Unit 2 Slurry Pond was located in the footprint of the Class 3 Landfill Area 1 and had been closed by removal of coal combustion residuals (CCR) pursuant to state regulatory requirements, alternate source demonstrations (ASDs) were completed in September 2019 and again in October 2022. The September 2019 ASD concluded that the closed Unit 2 Slurry Pond was the alternate source of the Appendix III constituents which had SSIs at that time. The October 2022 ASD again concluded that the Unit 2 Slurry Pond was the source for the Appendix III SSIs, and accordingly, the Class 3 Landfill Area 1 was not the source of the fluoride, boron, and chloride SSIs. As a result of the successful ASDs, the Class 3 Landfill Area 1 remains in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

#### 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 SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

To statistically evaluate the analytical results, the background upper prediction limit (UPL), which is a type of prediction interval method, was selected to evaluate the data. The prediction interval method is one of the methods outlined in the Rule. A prediction interval procedure is where a concentration limit for each constituent is established from the distribution of the background data, with a specified confidence level (e.g., 95 percent). The upper endpoint of a concentration limit is called the UPL. Depending on the background data distribution, parametric or non-parametric prediction limit

South Carolina Public Service Authority (Santee Cooper) July 26, 2023 Page 2

procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via a transformation of the sample background data.

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 prediction limit. If all the background data are non-detect, a maximum reporting limit (RL) may serve as an approximate UPL. We note that depending on the available sample size, UPLs generated from non-parametric or maximum reporting limits may not achieve the same target statistical confidence limits as the parametric UPLs. In the case of the Class 3 Landfill Area 1, the statistical analysis was conducted using both parametric and non-parametric prediction limits.

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through February 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (first semiannual event of 2025) in accordance with the Unified Guidance.

#### **TREND ANALYSIS**

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table I. In summary, approximately 86 percent of trends analyzed are identified as stable or decreasing for the compliance wells. No compliance wells with a SSI demonstrated increasing trends for Appendix III constituents. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSI. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

#### RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

Analytical results for each Appendix III constituent were compared to the background value of that constituent to determine whether a SSI has occurred (Table 1). A sample concentration greater than the UPL (or less than Lower Protection Limit [LPL] for pH) would indicate a SSI over background. Based on these comparisons, one SSI is detected using intrawell analysis for this event:

#### Chloride SSI at WAP-07

Notably, a SSI for boron was noted at WAP-07 during the July 2022 monitoring event; however, it was not considered a SSI during the February 2023 event. The groundwater concentration for chloride is within the historical range of concentrations for monitoring well locations for this unit (prior to receiving CCR in the Class 3 Landfill Area 1) and consistent with the findings of the 2022 ASD. The Mann-Kendall trend analysis completed as part of the statistical evaluation shows that chloride is stable at this



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location, which supports the findings of the September 2019 and October 2022 ASDs. Appendix III groundwater concentrations and trends will continue to be monitored.

#### **Enclosures:**

Table I – WGS Class 3 Landfill Area 1 February 2023 Semiannual Groundwater Detection Monitoring Data

 $https://haleyaldrich-my.sharepoint.com/personal/tnorthrop\_haleyaldrich\_com/Documents/Desktop/2023-0714\_HAl\_WGS\_Class~III~LF~A1\_Detection~Monitoring~Stats\_D1.docx$ 



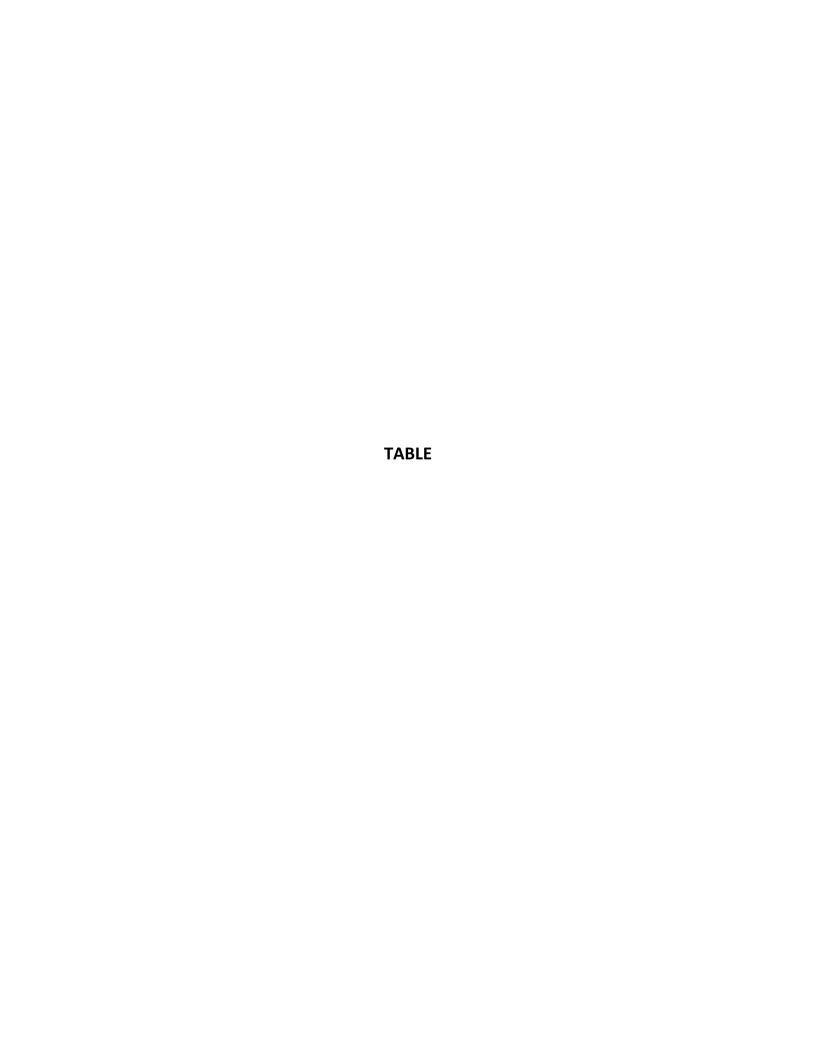


TABLE I WGS CLASS 3 LANDFILL AREA 1 FEBRUARY 2023 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA

The continue and the																						
	Percent Non-Detec			50th Percentile (Median)		Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL				Number of Non-Detection Exceedances	Outlier Presence	Outlier			February 2023 Concentration (mg/L)	Detect?	Background Limit (Upper Prediction Limit) mg/L	SS
1.   1.   1.   1.   1.   1.   1.   1.						CCR Appendix	e-III: Boron, Tota	I (mg/L)														
Column   C	%0		0.0399	0.037	0.0604	0.078	0.0001859	0.01363	0.342	NA	mg/L	z	0	0		No	Stable	Non-parametric				
	% 2%		113	0.839	4	4	1.539	1.241	1.082	NA :	mg/L	z :	0 0	0 0	S :	ON :	Increasing	Non-parametric	0.828		2.04	2
1.   1.   1.   1.   1.   1.   1.   1.	8 6		2777	3.2	1 477	1 01	0.3381	0.470	1.02	NA NA	ma/l	2 2	0 0		N N	ON ON	Doctoring	Non-parametric	1.0/		4°TO	ON ON
1   1   1   1   1   1   1   1   1   1	86		0.138	960'0	0.3083	0.48	0.01141	0.1068	0.7744	NA	me/L	z	0	0			Stable	Non-parametric	0.178		0.48	
1   1   1   1   1   1   1   1   1   1	%0		0.362	0.27	0.656	1.2	0.05694	0.2386	0.6585	NA	mg/L	z	0	0	Yes	No	Decreasing	Non-parametric	0.259	Yes	1.20	No
	%0		2.11	2.01		8	0.2966	0.5446	0.2576	NA	mg/L	z	0	0	No	No	Stable	Normal	2:02	Yes	4.40	No
1.   1.   1.   1.   1.   1.   1.   1.						CCR Appendix-	III: Calcium, Tot	al (mg/L)														
1.   1.   1.   1.   1.   1.   1.   1.	%0		48.4	44.95		92	477.4	21.85	0.4511	NA	mg/L	z	0	0			Stable					
1.   1.   1.   1.   1.   1.   1.   1.	%0		325	252	683.7	069	51430	226.8	0.6972	NA	mg/L	z	0	0			Stable	Normal	252		976.37	
1.   1.   1.   1.   1.   1.   1.   1.	%0		443	446.5	629.5	746	25370	159.3	0.3595	NA	mg/L	z	0	0			Decreasing	Normal	433		932.56	No
1.   1.   1.   1.   1.   1.   1.   1.	%0		76.8	56.95	164.1	187	3774	61.43	0.7998	NA	mg/L	z	0	0	Yes	Yes	Decreasing	Normal	62.9	Yes	335.21	No
1.   1.   1.   1.   1.   1.   1.   1.	%0		15.1	18	26.13	26.3	57.81	7.603	0.503	NA	mg/L	z	0	0	Yes	Yes	Increasing	Normal	20.4	Yes	43.68	No
1.   1.   1.   1.   1.   1.   1.   1.	%0		107	90.95	189.9	212	2509	50.09	0.4683	NA	mg/L	z	0	0	Yes	Yes	Decreasing	Normal	85.5	Yes	295.02	No
	%0		240	261	311.6	321	5612	74.91	0.3115	NA	mg/L	z	0	0			Increasing	Normal	287		425.14	No
1.   1.   1.   1.   1.   1.   1.   1.						CCR Appen	lix-III: Chloride (	mg/L)														
1.   1.   1.   1.   1.   1.   1.   1.	36	-	163	12.45		5.2.9	2149	14 66	0.9002	ΔM	me/l	2	c	c			Increase					
1.   1.   1.   1.   1.   1.   1.   1.	8 8		37.0	21.7		20.00	1444	37.00	1 015	V VN	ma/l	2 2	0	0 0	S	No.	Stable	Non-parametric	2 63		02.33	Voc
1.   1.   1.   1.   1.   1.   1.   1.	8 8		4.70	7,175		020	1144	20.05	STOT	¥ 4	mg/L	2 2	0	0	S &	No.	Doggooding	Morgan	90.7		900.70	<u> </u>
1.   1.   1.   1.   1.   1.   1.   1.	0%		110	24.6	200.0	2/0	9579	73.04	0.0820	A :	mg/L	z	0	0		NO I	Decreasing	Normal	1.02		409.49	NO NO
<ul> <li>4. 4. 5. 4</li></ul>	8 3		41./	24.6	139.8	117	7887	53.68	1.286	A :	mg/L	z :	0	0 1			Decreasing	Non-parametric	18		211.00	
1.   1.   1.   1.   1.   1.   1.   1.	%		7.4	4.305		59.3	168.7	12.99	1.756	NA	mg/L	z	0	0			Stable	Non-parametric	4.83		59.30	2
The continue of the continue	%		9.53	7.255		41.3	71.61	8.462	0.8881	NA	mg/L	z	0	0			Stable	Non-parametric	11.4		41.30	2
1.   1.   1.   1.   1.   1.   1.   1.	8		133	150.5	174.1	175	1431	37.83	0.2841	NA	mg/L	z	0	0			Stable	Normal	153		269.48	
1	100%	1010	100	100	0.1	naddw unn	dix-III: rinoride	mg/r)			ma/l	2		c								
1	100%	0.10.1	100	0.0	100		> <	0 0	0			2 2	0	o c				C VN			010	
1	100%	0.1-0.1	10	100	100		1 633F-18	1 278F-09	1 278F-08	. 4	mo/l	2 2	, ,	o c				C V		No.	010	
1.   1.   1.   1.   1.   1.   1.   1.	78%	0.1-0.1	0.106	0.1	0.1315	0.14	0.0001438	0.01199	0.1136	4	mg/L	z	0	0	2	No	Stable	Non-parametric	0.1		0.14	
1	84%	0.1-0.1	0.103	0.1	0.1075	0.15	0.0001389	0.01179	0.1147	4	mg/L	z	0	0				NA			0.10	
1	100%	0.1-0.1	0.1	0.1	0.1		1.633E-18	1.278E-09	1.278E-08	4	mg/L	z	0	0				AN	0.1		010	
Column   C	7670	0.1-0.1	0.101	100	0.1015	0.11	0.000005556	0.000357	0.02344		1/000	: 2						NA NA	1.0	No.	0.11	
4.5.         4.5.         4.5.         4.6.         4.6.         6.0         0         0         0         0         0.0         0.0         0.0         0 <td>2</td> <td>100 100</td> <td>0.101</td> <td>100</td> <td>CTOT-O</td> <td>CCR Annough</td> <td>ralli: nH Field (n</td> <td>4 units)</td> <td>10000</td> <td></td> <td>10</td> <td></td> <td>,</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td>100</td> <td></td> <td>11:0</td> <td></td>	2	100 100	0.101	100	CTOT-O	CCR Annough	ralli: nH Field (n	4 units)	10000		10		,	,					100		11:0	
1.   1.   1.   1.   1.   1.   1.   1.	%0	ŀ	451	25.0	4 683	or Append	0.02217	3	0.03303	VIV	oH unite	2		c			Stable					
1.   1.   1.   1.   1.   1.   1.   1.	800		10.4	t 8	4.003	j S	0.3050		0.03302	W.	Sillin Id	2 2	0	0	2 2	NO.	Stable	Morring			001	
1.   1.   1.   1.   1.   1.   1.   1.	8 6		000	5.39	6.362	0.09	0.03364		0.07356	A A	Silin Ind	z z	0	0	NO NO	NO NO	Doctorcing	Non population	5.5		4.25, 7.50	NO NO
4. A.	80 80		6.64	0.33	150	75.0	0.03204		0.026/1	NA NA	ph units	2 2	0	0 0	8 4	N N	Decreasing	Morganicano	r 8		0.77 0.03	N 0
1.   1.   1.   1.   1.   1.   1.   1.	80 80		4.24	4 315	4 470	0.0	0.0002		0.02702	C 4	Similar Ha	2 2	0	0 0	2 2	02 2	Stable	Normal	2000		277, 6.33	N N
1.0   1.0	8 8		4.24	6.335	4,476	6.74	0.05567		0.03733	VIV.	DH mile	2 2	0	0 0			Stable	Normal	4.54		5.33, 4.30	
CTA Appendiculti Sulfate (PMC)	86		6.89	6.885	7.036	7.07	0.01883		0.01993	W	DH units	z	0				Stable	Normal	7.01		659 722	
1.   1.   1.   1.   1.   1.   1.   1.						CCR Appen	dix-III: Sulfate (r	à											1		Tarris (como	
4. 5         1.1 </td <td>%</td> <td>Ŀ</td> <td>143</td> <td>126</td> <td>236.1</td> <td>248</td> <td>2313</td> <td>8</td> <td>0.3356</td> <td>NA</td> <td>mg/L</td> <td>z</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>Stable</td> <td></td> <td></td> <td></td> <td></td> <td></td>	%	Ŀ	143	126	236.1	248	2313	8	0.3356	NA	mg/L	z	0	0			Stable					
1.   1.   1.   1.   1.   1.   1.   1.	%6		717	612	1386	1440	211300		0.6408	NA	mg/L	z	0	0	No	No	Stable	Normal	429		2268.65	No
· . 134         134         134         1340         5780         2422         2425         1346         Mg/L         mg/L         N         0         %         %         Decreasing         Monogramment         144         %         1000         %         %         9         %	%0		827	918	1062	1070	44620		0.2554	NA	mg/L	z	0	0	No	No	Decreasing	Non-parametric	739	Yes	1070.00	No
· . 5.5         75.5	%0		198	101	466.4	1040	57680		1.216	NA	mg/L	z	0	0	Yes	No	Decreasing	Non-parametric	144	Yes	1040.00	No
1.   1.   1.   1.   1.   1.   1.   1.	%0		75.7	75.8	159.1	160	1189		0.4554	NA	mg/L	z	0	0	Yes	No	Stable	Non-parametric	76.1	Yes	160.00	No
1.   1.   1.   1.   1.   1.   1.   1.	%0		134	105	263.1	366	6283		0.5912	NA	mg/L	z	0	0	Yes	No	Decreasing	Normal	74.8	Yes	452.72	No
A CCA Appendiculi: Total Dissolved Solida (LITC) (mg/L) (m	%6	•	406	392.5	535.9	575	8903		0.2326	NA	mg/L	z	0	0	No	No	Increasing	Normal	422		727.15	°N
-         248         28.64         38.65         38.88         87.22         0.53.77         NA         mg/L         N         0         76         No         34.06         No         97.27         No         10.00         No         34.06         No         34.05         34.05         No         No <t< td=""><td></td><td></td><td></td><td></td><td>CCR</td><td>Appendix-III: To:</td><td>al Dissolved Sol.</td><td>ids (TDS) (mg/L)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					CCR	Appendix-III: To:	al Dissolved Sol.	ids (TDS) (mg/L)														
- 1210 1105 1232 2531 553300 744.2 0.616.2 NA mg/l N 0 0 NO NO NO Stable Normal 1105 Ves 3352.5 355.0 355.3 NO NORMAL 1105 NOR	%0		248	236.9	368.6	388.8	7607	87.22	0.3517	NA	mg/L	z	0	0	Yes	No	Stable	Normal				
.         1800         1766         2405         2480         21950         4686         0.2559         NA         mg/L         N         0         No         No         No         No         No         No         No         No         1578         Yes         352.47           1.2         3.2         3.25         6.6         6.6         6.6         No         No         No         No         No         No         No         1321.37         No         1321.37         No         No         1321.37         No         1321.30         No         240.0         No	%0		1210	1105	2320	2531	223300	744.2	0.6162	NA	mg/L	z	0	0	No	No	Stable	Normal	1105	Yes	3862.51	No
332         3316         6736         889         56640         238         0.6406         NA         mg/L         N         0         No	%0		1800	1766	2405	2480	219500	468.6	0.2599	NA	mg/L	z	0	0	No	No	Decreasing	Normal	1578	Yes	3525.47	No
- 113 1043 1499 2412 1302 35.089 1435 0.3407 NA mg/L N 0 0 N No No Decreasing Normal 353.8 Nos 991.59	%0		372	331.6	9'629	890	56640	238	0.6406	NA	mg/L	z	0	0	No	No	Stable	Normal	260	Yes	1321.37	No
. 421 4106 635 755 20590 143.5 0.3407 NA mg/L N 0 0 0 No No Decreasing Normal 353.8 Yes 991.59	%0		113	104.3	149.9	241.2	1302	36.08	0.3183	NA	mg/L	z	0	0	Yes	No	Stable	Non-parametric	118.8	Yes	241.20	No
	%0		421	410.6	635	755	20590	143.5	0.3407	NA	mg/L	z	0	0		No	Decreasing	Normal	353.8		99159	No

JULY 2023



HALEY & ALDRICH, INC. 400 Augusta Street Suite 100 Greenville, SC 29601 864.214.8750

#### **TECHNICAL MEMORANDUM**

August 1, 2023

File No. 132892-100-007-02

SUBJECT: Statistical Evaluation of the February 2023 Semiannual Groundwater Assessment

Monitoring Data, Winyah Generating Station, Closed Unit 2 Slurry Pond

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February 2023 semiannual assessment monitoring event for the Winyah Generating Station (WGS) Closed Unit 2 Slurry Pond. Data for this groundwater sampling event were validated on May 30, 2023 by Santee Cooper.

#### **BACKGROUND**

Recent analytical testing results were evaluated to determine if statistically significant levels (SSLs) exist above Groundwater Protection Standards (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 for the background wells. There were no SSLs identified during the last sampling event.

#### STATISTICAL EVALUATION

The Rule in 40 CFR §257.93 (f) (1-4) provides four specific options for statistically evaluating whether water quality downgradient of the CCR unit represents a SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL). A tolerance interval is a concentration range, with a specified confidence level, designed to contain a pre-specified proportion of the underlying population from which the statistical sample is drawn. This statistical method was re-certified by Haley & Aldrich, Inc. on February 24, 2020.

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 data, parametric or non-parametric procedures were used to develop the UTL.

South Carolina Public Service Authority (Santee Cooper) August 1, 2023 Page 2

Parametric procedures use assumed distributions of the sample background data to develop 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.<sup>1</sup> 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 groundwater analytical results for each sampling event from the background sample location (WAP-1 and WBW-1) were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation.

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through February 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (second semiannual event of 2023) in accordance with the Unified Guidance.

#### **TREND ANALYSIS**

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table I. In summary, all analyzed trends are identified as stable or decreasing for the compliance wells. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSL. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

#### **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 the results from previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for the downgradient wells and constituents. Selenium had a higher relative laboratory reporting limit for all compliance wells, except for WAP-07;

<sup>&</sup>lt;sup>1</sup> Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.



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however, it was not detected in the samples and is thus not considered a SSL. Consistent with previous statistical evaluations, SSLs above GWPS were not identified. Starting in February 2020, this is the seventh statistical report demonstrating that no SSLs exist, and this report meets the three-year regulatory criteria for closure pursuant CFR §257.98 (c)(2).

#### **Enclosures:**

Table I – WGS Unit 2 Slurry Pond February 2023 Semiannual Assessment Monitoring Data

https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0\_Winyah Generating Station/Statistical Analysis/2023-01/Unit 2 Slurry Pond/client draft/2023-0801\_HAI\_WGS\_Closed Unit 2 Slurry Pond\_Assessment Monitoring Stats\_F.docx



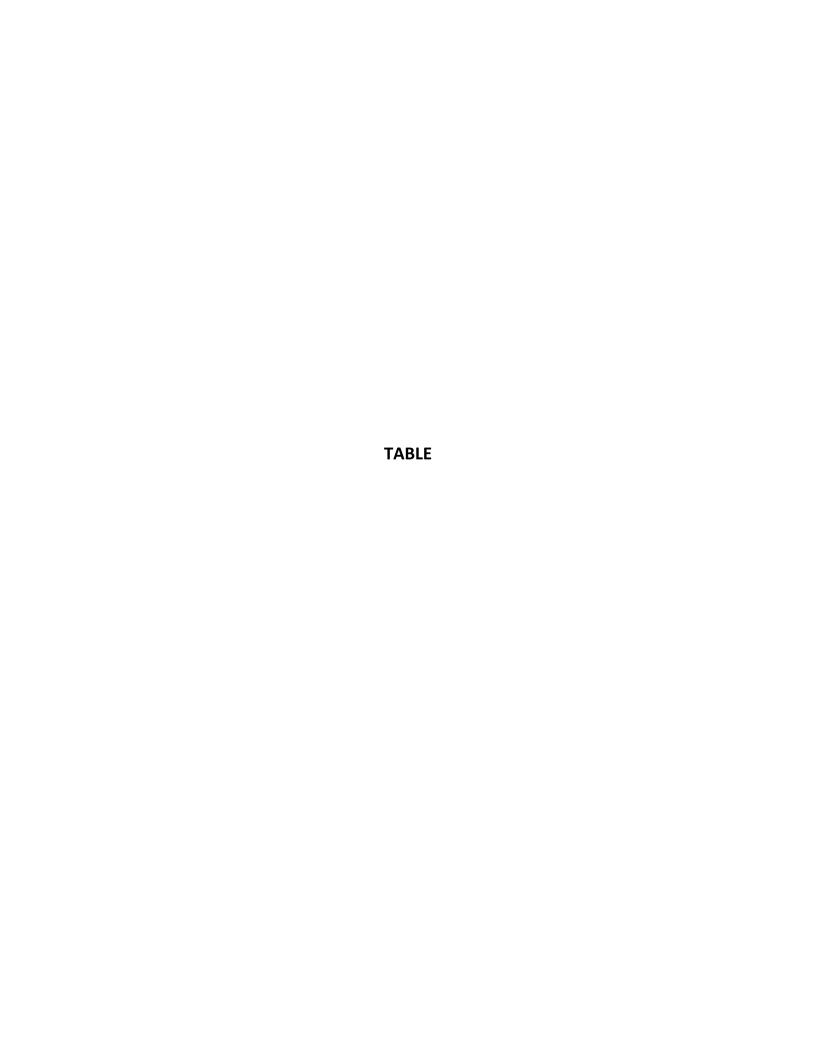


TABLE I WGS UNIT 2 SLURRY POND FEBRUARY 2023 SEMIANNUAL ASSESSMENT MONITORING DATA

SSI			9	No.	9	90	9.	9			oN oN	2 5	9 9	9	No		9	9	9	No :	02	9		9	No	9	N :	No No			9	9 9	9 9	No	9		9	N S	No	9	No	9		No	No No	9	90	9		9	No	No	9 9	9
					_	_		-					-	_	_			_	_						-	_									_					-							_	_			-			_
Exceedance above GWPS at Individual Well?				: 2	z	z	Z				z z	z z	: 2	z				z	Z	z	2 2	z		z	Z	Z	z z	zz			Z	z z	z	z	z		z	: 2	Z	Z	z z			z	z z	z	Z			z	Z	z z	zz	z
GWPS (Higher of MCL/RSL or Upper Tolerance Limit)	1/8	0 035	0.023							0.010						000 €	7.000						0.004							0.005						0000	0.100						0.006						4 000	4:000				
SS			z	: z	z	z	z	z			zz	2	. >	z	Z		2	z	z	z :	z	z		z	Z	z	z z	2 2			z	zz	2	z	z		Z	: 2	Z	z	zz	2		z	z >	>	z	z		z	Z	2 2	2 2	Z
Upper Tolerance		2000	0.023							0.005						0.1146	0.1143						0.0005							0.002						0.00	0.01						0.0005							1.0				
Detect?			2	zz	2	z	z				2 2	2 2	2 >	z				>	>-	>	> >			z	z	z	z :	2 2			z	2 2	2 2	: 2	Z		2	2 2	Z	z	2 2			z	z >	- >-	z			z	z	2 2	2 2	z
February 2023 Concentration	(a (Sun)		0.005	0.005	0.005	0.005	0.005	0.005			0.005	0.003	0.003	0.003	0.003		0.0399	0.0511	0.0412	0.0299	0.0355	0.0349		0.0005	0.0005	0.0005	0.0005	0,0005	00000		0.0005	0.0005	0.0003	0.0005	0.0005		0.005	0.005	0.005	0.005	0.005	0.003		0.0005	0.0005	0.00103	0.0005	0.0005		0.1	0.1	0.1	0.1	0.1
Distribution Group																																																						
Trend Distr			NA NA		NA	NA	NA			NA			Stable	NA		Cerable	Stable	Stable	Stable	Decreasing	Stable	Sinceanan	NA	NA	NA						NA			NA			NA NA	NA NA	NA	NA				NA		NA.	NA			NA NA	NA	NA NA		
Outlier				NA	NA	NA	NA												No	No O	NO IN		NA	NA	NA	NA	NA :				NA			NA	NA			NA	NA	NA	NA NA			NA		No	NA			NA NA	NA	No NA		NA
Outlier C Presence Re				NA	NA	NA	NA							NA				No	No	Yes	Yes		NA	NA	NA	NA	NA :				NA			NA	NA				NA	NA	NA NA			NA			NA			NA NA	NA			NA
Number of Non-Detection	COMMENS				1	1	1	1		0	0 0	0 0	. 0	0	0	c	0 0	0	0	0	0 0	o	0	0	0	0	0 (	0 0	,	0	0	0 0	0	0	0			0	0	0	0 0	>	0	0	0 0	0	0	0		0 0	0	0 0	0 0	0
Number of Detection			0 0	0	0	0	0	0		0	0 0	0 0	0	0	0		0 0	0	0	0	0 0		0	0	0	0	0 0	0 0	,	0	0	0 0	0	0	0		0 0	0	0	0	0 0	•	0	0	0 0	0	0	0	<	0 0	0	0	0 0	0
Detection P Exceedances		2	2 2	: z	z	z	z	z		z	z z	2 2	: 2	z	z	2	2 2	z	z	z	2 2	z	z	z	z	z	z	2 2		z	z	zz	2 2	z	z		zz	: z	z	z	2 2	2	z	z	zz	z	z	z	,	zz	z	z 2	2 2	z
Report Result		() must	me/l	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	ma/l	mg/L	mg/L	mg/L	//ww	me/l	mg/L	mg/L	mg/L	mg/L	T S	mg/L	T/3m	mg/L	mg/L	mg/L	mg/L	100	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	9	mg/L	mg/L	mg/L	mg/L	mg/L	1/8	mg/L	mg/L	mg/L	mg/L	T/8m	mg/L	9	mg/L	mg/L	mg/L	mg/L	mg/L
CCR MCL/RSL		0,006	0.006	9000	900'0	900'0	900'0	900'0		0.01	0.01	100	0.01	0.01	10:0		7 6	2	2	2	7	7	0.004	0.004	0.004	0.004	0.004	0.004		0.005	0.005	5000	0.005	0.005	0.005	3	1.0	0.1	0.1	0.1	0.1	100	900'0	9000	9000	9000	900'0	900:0	,	4 4	4	4 4	4 4	4
Coefficient of Variance		0.0404	0.8602	0.8484	0.8484	0.8484	0.8484	0.8484		0.1863	0.1252	0.1001	0.301	0.1933	0.1933	0.1965	0.1089	0.2038	0.2894	0.1366	0.2931	0.1302	0	0	0	0	0 0		,	0.6603	0.6061	0 0	0.1438	0	0	0.000	0.2233	2.688E-08	2.688E-08	2.688E-08	2.688E-08	4.000E-00	0	0.1046	0 7841	0.4475	0	0		0	1.278E-08	0.1136	1 2785-08	0.02344
Standard Deviation	3	al (mg/L)	0.005276	0.005547	0.005547	0.005547	0.005547	0.005547	(mg/L)	0.0008516	0.0006005	0.000071	0.001888	0.0008771	0.0008771	(mg/L)	0.01094	0.007677	0.01378	0.004664	0.01204	0.003934 al (mg/L)	0	0	0	0	0		al (mg/L)	0.0004009	0.0003536	0 0	0.00007488	0	0	al (mg/L)	0.001179	1.344E-10	1.344E-10	1.344E-10	1.344E-10	(mg/L)	0	0.00005423	0 0005767	0.0002909	0	0	(1/8h	0	1.278E-09	0.01199	1 2785.00	0.002357
Variance		CCR Appendix-IV: Antimony, Total (mg/L)	0.00003077	0.00003077	0.00003077	0.00003077	0.00003077	0.00003077	CCR Appendix-IV: Arsenic, Total (mg/L)	7.253E-07	3.606E-07	7.692E-07	0.000003565	7.692E-07	7.692E-07	CCR Appendix-IV: Barium, Total (mg/L)	0.0000033	0.00005894	0.0001898	0.00002176	0.00001451	CCR Appendix-IV: Beryllium, Total (mg/L)	0	0	0	0	0	0 0	CCR Appendix-IV: Cadmium, Total (mg/L)	1.607E-07	0.000000125	0 0	5.608E-09	0	0	CCR Appendix-IV: Chromium, Total (mg/L)	0.000001389	1.807E-20	1.807E-20	1.807E-20	1.807E-20	CCR Appendix-IV: Cobalt, Total (mg/L)	0	2.941E-09	3 325F-07	8.462E-08	0	0	CCR Appendix-IV: Fluoride (mg/L)	0	1.633E-18	0.0001438	1,6335.19	0.000005556
Maximum Detect		CR Appendix-I							CCR Appendix		0.0033		0.0099			CCR Appendix	0.0537	0.0511	0.0663	0.0405	0.0792	CR Appendix-1							CR Appendix-I				0.00077			CR Appendix-I						CCR Appendix		0.0007	0.0005	0.00143			CCR Append			0.14	0.15	0.11
95th Percentile		0 000	0.013	0.013	0.013	0.013	0.013	0.013		0.005	0.005	0.000	0.009036	0.005	0.005	0110	0.110	0.05005	0.06392	0.03987	0.05974		0.0005	0.0005	0.0005	0.0005	0.0005	0.0005			0.000725	0.0005	0.000608	0.0005	0.0005	0	0.00575	0.005	0.005	0.005	0.005	0.000	0.0005	0.000616	0.0005	0.00119	0.0005	0.0005	,	0.1	0.1	0.1315	0.1075	0.1015
50th Percentile (Median)		0000	0.005	0.005	0.005	9000	0.005	0.005		0.005	0.005	500.0	0.00564	0.005	0.005	0.0000	0.0833	0.0354	0.0507	0.035	0.037	0.04#47	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	range	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	2000	0.005	0.005	0.005	0.005	0.005	0000	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	10	0.1	0.1	0.1	0.1	0.1
Mean		0.00054	0.00613	0.00654	0.00654	0.00654	0.00654	0.00654		0.00457	0.00479	0.00454	0.00627	0.00454	0.00454	0.000	0.0308	0.0377	0.0476	0.0341	0.0411	0.044	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	20000	0.000607	0.000583	0.0005	0.000521	0.0005	0.0005	0.000	0.00528	0.005	0.005	0.005	0.005	0.003	0.0005	0.000519	0.0005	0.00065	0.0005	0.0005		0.1	0.1	0.106	0.103	0.101
Range of Non- Detect		0 005 0 035	0.003-0.023	0.005-0.025		0.005-0.025	0.005-0.025	0.005-0.025			0.003-0.005	0.003-0.003	0.005-0.005		0.003-0.005								0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	200000			0.0005-0.0005			0.0005-0.0005	000	0.005-0.01	0.005-0.005	0.005-0.005	0.005-0.005	0.005-0.005	000.0.00			0.0005-0.0005		0.0005-0.0005	0.0005-0.0005	1010	0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1
																-				9	۰ و																																	
y of Percent on Non-Detects			100%												100%			%0			\$ 8		100%	100%			100%					100%			100%		100%				100%			80%			100%			100%		78%		
Frequency of Detection		0,43	0/13	0/13	0/13	0/13	0/13	0/13		0/14	1/18	0/13		0/13	0/13	1646	18/18	15/15	15/15	15/15		61/61	0/13	0/15	0/13	0/13		0/13	CT/O	0/14	0/18	0/13			0/13		0/18			0/13	0/13	0/13	0/13	3/15	1/13	5/13	0/13	0/13		0/1/0	0/18	4/18	1/18	1/18
Location Id		MDW-A1.1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5		WBW-A1-1	WAP-07	WIEAL-2	WIF-A1-3	WLF-A1-4	WLF-A1-5	MDW A1.1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WIF-A1-4	WLF-AL-3	WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-AL-4		WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-3	WLF-A1-4	WLF-A1-5	A DE TROUTE	WBW-A1-1	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	CTHAIN	WBW-A1-1	WAP-07	WLF-A1-1 WIF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5	WOW AT 1	WBW-A1-1 WAP-07	WLF-A1-1	WLF-A1-2	WIE-AI-5	WLF-A1-5

JULY 2023

TABLE I WGS UNIT 2 SLURRY POND FEBRUARY 2023 SEMIANNUAL ASSESSMENT MONITORING DATA

JULY 2023



HALEY & ALDRICH, INC. 400 Augusta Street Suite 100 Greenville, SC 29601 864.214.8750

#### **TECHNICAL MEMORANDUM**

December 19, 2023 File No. 132892-001-007-02

SUBJECT: Statistical Evaluation of the July 2023 Semiannual Groundwater Detection Monitoring

Data, Winyah Generating Station, Class 3 Landfill Area 1

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the July 2023 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 1. Data for this groundwater sampling event were validated on September 20, 2023 by Santee Cooper.

#### **BACKGROUND**

After completion of baseline sampling, the initial statistical analysis identified statistically significant increases (SSIs) for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. During the previous groundwater sampling event, boron, chloride, and fluoride were the only Appendix III constituents detected as SSIs. Recognizing the Unit 2 Slurry Pond was located in the footprint of the Class 3 Landfill Area 1 and had been closed by removal of coal combustion residuals (CCR) pursuant to state regulatory requirements, alternate source demonstrations (ASDs) were completed in September 2019 and again in October 2022. The September 2019 ASD concluded that the closed Unit 2 Slurry Pond was the alternate source of the Appendix III constituents which had SSIs at that time. The October 2022 ASD again concluded that the Unit 2 Slurry Pond was the source for the Appendix III SSIs, and accordingly, the Class 3 Landfill Area 1 was not the source of the fluoride, boron, and chloride SSIs. As a result of the successful ASDs, the Class 3 Landfill Area 1 remains in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

#### 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 SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

To statistically evaluate the analytical results, the background upper prediction limit (UPL), which is a type of prediction interval method, was selected to evaluate the data. The prediction interval method is one of the methods outlined in the Rule. A prediction interval procedure is where a concentration limit for each constituent is established from the distribution of the background data, with a specified confidence level (e.g., 95 percent). The upper endpoint of a concentration limit is called the UPL. Depending on the background data distribution, parametric or non-parametric prediction limit

South Carolina Public Service Authority (Santee Cooper) December 19, 2023 Page 2

procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via a transformation of the sample background data.

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 prediction limit. If all the background data are non-detect, a maximum reporting limit (RL) may serve as an approximate UPL. We note that depending on the available sample size, UPLs generated from non-parametric or maximum reporting limits may not achieve the same target statistical confidence limits as the parametric UPLs. In the case of the Class 3 Landfill Area 1, the statistical analysis was conducted using both parametric and non-parametric prediction limits.

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (first semiannual event of 2025) in accordance with the Unified Guidance.

#### **TREND ANALYSIS**

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table I. In summary, approximately 84 percent of trends analyzed are identified as stable or decreasing for the compliance wells. No compliance wells with a SSI demonstrated increasing trends for Appendix III constituents. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSL. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

#### RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

Analytical results for each Appendix III constituent were compared to the background value of that constituent to determine whether a SSI has occurred (Table 1). A sample concentration greater than the UPL (or less than Lower Protection Limit [LPL] for pH) would indicate a SSI over background. Based on these comparisons, one SSI is detected using intrawell analysis for this event:

Fluoride SSI at WAP-07

Notably, a SSI for chloride was noted at WAP-07 during the February 2023 monitoring event; however, it was not considered a SSI during the July 2023 event. This is the first detection for fluoride above



South Carolina Public Service Authority (Santee Cooper) December 19, 2023 Page 3

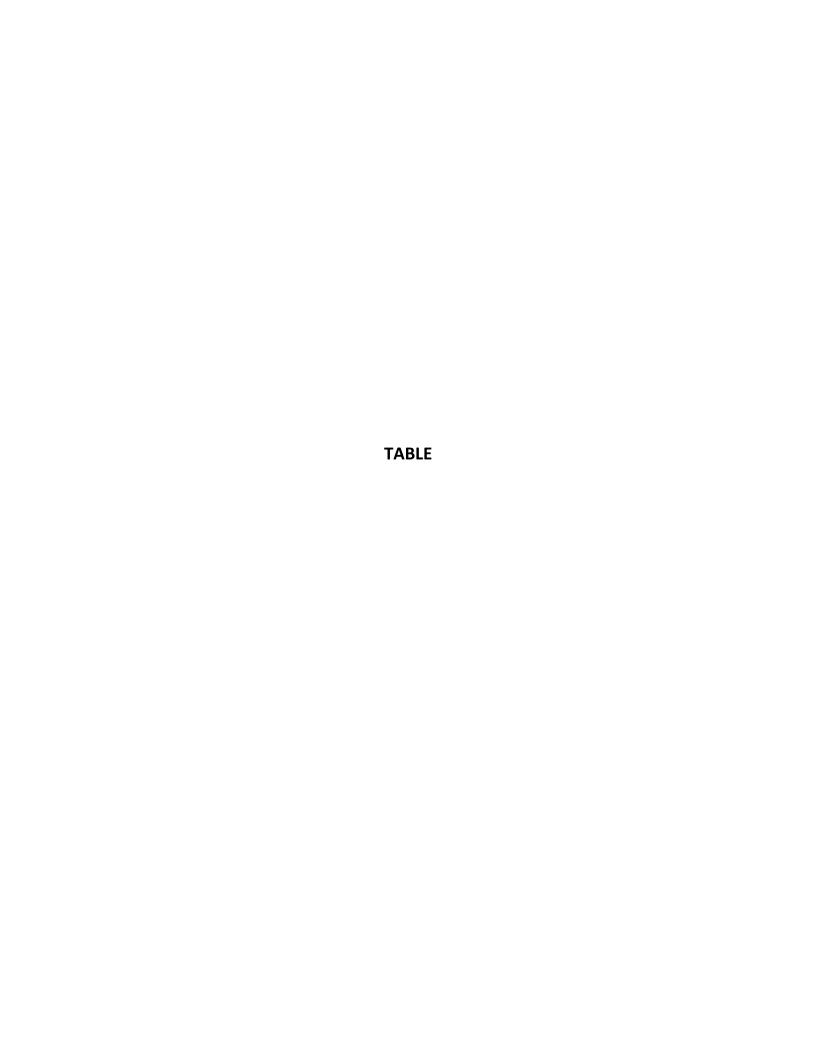
reporting limits; however, the detection of fluoride is consistent with the findings of the 2022 ASD. Appendix III groundwater concentrations and trends will continue to be monitored.

#### **Enclosures:**

Table I – WGS Class 3 Landfill Area 1 July 2023 Semiannual Groundwater Detection Monitoring Data

https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0\_Winyah Generating Station/Statistical Analysis/2023-10/Class 3 Landfill Area 1/client final/2023-1219\_HAI\_WGS\_Class III LF A1\_Detection Monitoring Stats\_F.docx





BLE I	VGS CLASS 3 LANDFILL AREA 1	ILY 2023 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA
TABLE	WGS CL/	JULY 202

alysis	SS			No	No	No	No	No	No			No	No	ON ON	N S	No			No	No :	No	No	No	ON		Yes	No	No	No	No	NO		No	No	No	No	No	NO			No No	S N	No	No	No
Intra-well Analysis	Background Limit (Upper Prediction Limit) mg/L			4.00	4.10	1.80	0.48	1.20	4.00			690.00	882.95	39 81	266.14	416.50			123.00	389.11	211.00	59.30	41.30	175.00		0.10	0.10	0.14	0.15	0.10	0.11		4.34, 7.66	5.79, 6.47	4.45, 6.67	3.64, 4.83	5.47, 7.21	6.46, 7.07			1440	1040	160	366	732
	Detect?			>-	>-	>-	>-	>	>			>	> 1	> >	-   >-	>-			>	>-	>	>	>	>		>-	z	z	z	z	z		>-	>	>	>-	>-	>			> >	- >	- >-	- >-	>-
	July 2023 Concentration (mg/L)			3.68	80:0	0.81	0.21	0.20	1.55			909	426	18.7	90.2	258			73.4	17.8	2.3	5.2	14.1	101.0		0.15	0.1	0.1	0.1	0.1	T:0		6.4	6.1	4.45	4.5	6.4	89.99			1270	049	. 89	38	378
	Trend	e la	stable	Increasing	Decreasing	Stable	Stable	Decreasing	Decreasing		Stable	Stable	Decreasing	Decreasing	Decreasing	Increasing		Increase	Stable	Decreasing	Decreasing	Stable	Stable	Stable	AN	NA	NA	Stable	NA	W S	N.	Stable	Stable	Decreasing	Decreasing	Increasing	Stable	Stable		Increasing	Stable	Decreasing	Stable	Decreasing	Increasing
	Outlier Removed	1	ON :	No	No	No	No	No	No		Yes	Yes	Yes	Yes	Yes	Yes		No	No	oN :	oN :	2	No	8	NA	NA	NA	No	NA	W S		No	No	No	No	No	N :	ON		oN :	0 N	S 8	No	No	No
	Outlier Presence		00 :	No	No.	Yes	Yes	Yes	No		Yes	Yes	Yes	Yes	Yes	Yes		Yes	No	No.	Yes	Yes	Yes	2	AN	NA	NA	No	NA	W N		No	No	Yes	No	No	ο <sub>2</sub>	Yes		ο <sub>2</sub> :	8 8	VPK	Yes	Yes	oN.
	Number of Non-Detection Exceedances	d	0	0	0	0	0	0	0		0	0	0	0 0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0 0	5	0	0	0	0	0	0	0		0	0 0	0 0	0	0	0
	Number of Detection N		5	0	0	0	0	0	0		0	0	0 0	0 0	0	0		0	0	0	0 '	0	0	0	0	0	0	0	0	0 0		0	0	0	0	0	0 0	5		0	0 0		0	0	0
	Detection		z	z	z	z	z	z	z		z	z	z :	2 2	z	z		z	z	z	z	z	z	z	z	z	z	z	z	2 2	z	z	z	z	z	z	z :	z		z	z 2	2 2	z	z	z
	Report Result E Unit	ij.	1/8w	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	1/8m	pH units	pH units	pH units	pH units	pH units	pH units	pH units	,	mg/L	mg/L	mø/l	mg/L	mg/L	mg/L
	CCR MCL/RSL	1	NA :	ΑA	NA	NA	NA	AA	NA		AN :	NA	NA :	Y A	¥	NA		NA	NA	NA :	¥.	NA	NA	A A	4	4	4	4	4	4	4	NA	NA	NA	AN	NA	NA :	NA A		W :	Y S	Z A	NA	AN	NA
	Coefficient of Variance	0.000	0.3432	1.041	0.5354	0.9769	0.7417	0.663	0.2614		0.5163	0.6763	0.3502	0.821/	0.4603	0.3021		8068'0	0.9647	0.7234	1.338	1.735	0.8486	0.2853	1.278E-08	0.1147	0	0.1114	0.1118	0	0.02282	0.03238	0.07493	0.02922	0.1498	0.03848	0.03619	0.01954	0 4000	0.4309	0.6231	1.249	0.4456	0.5886	0.2274
	Standard Deviation	(mg/L)	0.01407	1.349	1.38	0.4719	0.105	0.2347	0.5448	I (mg/L)	26.98	229.4	154.8	7 435	48.83	72.91	(mg/L)	14.29	37.84	80.04	52.9	12.63	8.29	37.49 (me/l)	1.278E-09	0.01179	0	0.01172	0.01147	0	0.002254 I units)	0.1462	0.4508	0.1835	0.8359	0.1636	0.2294	0.1344	(mg/L)	66.42	464.2	235.9	33.56	77.62	91.91
	Variance	CCR Appendix-III: Boron, Total (mg/L)	0.0001979	1.82	1.905	0.2227	0.01103	0.0551	0.2968	CCR Appendix-III: Calcium, Total (mg/L)	728	52630	23980	55.28	2385	5316	ride	204.1	1432	6406	2799	159.6	68.73	175 1406 CCB Appendix-III: Fluoride (n		0.0001389	0	0.0001374	0.0001316	0	U.UUUUUSZOS -III: pH, Field (pH	0.02137	0.2032	0.03368	0.6987	0.02675	0.05263		ate	4411	215400	55640	1126	6025	8448
	Maximum Detect	CCR Appendix	0.0/8	4	4.1	1.8	0.48	1.2	3	CCR Appendix-	121	069	746	76.3	212	321	CCR Append	67.5	123	270	211	59.3	41.3	CCR Annenc		0.15		0.14	0.15	110	CCR Appendix-III: pH, Field	4.7	69.9	6.47	29.9	4.58	6.74	/0./	CCK Appen	349	1070	1040	160	366	575
	95th Percentile	20000	0.06287	4	4.01	1.458	0.2982	0.624	3		94.9	683.3	622.7	76.12	188.6	311.1		42.57	109.7	254.7	135.4	11.85	18.53	174.1	0.1	0.1075	0.1	0.131	0.105	0.1	0.101	4.682	6.576	6.47	6.607	4.472	6.632	7.034	9.00	258.1	1383	430.5	159.1	257.1	533.6
	50th Percentile (Median)	75500	0.03/5	0.85	2.9	0.28	0.097	0.27	2		45.1	282.5	433	18	90.2	259		12.3	21.75	94.9	21.95	4.48	7.55	148	0.1	0.1	0.1	0.1	0.1	0.1	T:0	4.56	6.045	6.3	5.52	4.23	6.37	98.9	200	126	659.5	94.8	75.7	105	384
	Mean		0.041	1.3	2.58	0.483	0.142	0.354	2.08		52.3	339	442	15.3	106	241		16	39.2	111	39.5	7.28	9.77	131	0.1	0.103	0.1	0.105	0.103	0.1	0.101	4.51	6.02	6.28	5.58	4.25	6.34	9.88	***	154	745	189	75.3	132	404
	Range of Non- Detect						,																		0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1	1.0-1.0														
	Percent Ra	ì	8	%0	%0	%0	%0	%0	%0		%0	%0	%0	8 8	%0	%0		%0	%0	%0	%0	%0	%0	%0	100%	94%	100%	79%	%56	100%	920%	%0	%0	%0	%0	%0	%0	86		%0	% %	%0	%0	%0	%0
	Frequency of Detection	20,00	18/18	17/17	19/19	19/19	19/19	19/19	19/19		19/19	20/20	19/19	19/19	19/19	19/19		19/19	20/20	19/19	18/18	19/19	19/19	19/19	0/18	1/18	0/19	4/19	1/19	0/19	1/19	19/19	20/20	19/19	19/19	19/19	19/19	19/19		19/19	20/20	19/19	19/19	19/19	19/19
	Location Id	MDM 44.4	WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5		WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2 WIF-A1-3	WLF-A1-4	WLF-A1-5		WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5	WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-AL-3	WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5		WBW-A1-1	WAP-07	WIE-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5

TABLE I WGS CLASS 3 LANDFILL AREA 1 JULY 2023 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA

			_						
alysis	ISS			No	No	No	No	No	No
Intra-well Analysis	Background Limit (Upper Prediction Limit) mg/L			2531	3423	1194	241	917	1805
	Detect?			>	>-	>-	>-	>-	^
	July 2023 Concentration (mg/L)			2362	1622	98	101	346	1121
	Trend		Stable	Stable	Decreasing	Stable	Stable	Decreasing	Increasing
	Outlier Removed		No	No	No	No	No	No	No
	Outlier Presence		Yes	No	No	No	Yes	No	No
	Number of Non-Detection Exceedances		0	0	0	0	0	0	0
	Number of Detection Exceedances		0	0	0	0	0	0	0
	Detection Exceedances (Y/N)		z	z	z	z	z	z	z
	Report Result Unit		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	CCR MCL/RSL		NA	NA	NA	NA	NA	NA	NA
	Coefficient of Variance		0.6076	0.4085	0.2549	0.6712	0.312	0.3368	0.1751
	Standard Deviation	lids (TDS) (mg/L)	692	107.5	457.2	239.7	35.17	140.5	194.8
	Variance	CCR Appendix-III: Total Dissolved Sol	591300	11560	209100	57440	1237	19740	37960
	Maximum Detect	Appendix-III: To	2531	536.2	2480	890	241.2	755	1456
	95th Percentile	CCR	2370	403.5	2401	667.3	144.5	627.9	1350
	S0th Percentile (Median)		1128	247.5	1721	303.8	101.2	366.2	1132
	Mean		1270	263	1790	357	113	417	1110
	Range of Non- Detect		,	,	,	,		,	
	Percent Non-Detects		%0	%0	%0	%0	%0	%0	%0
	Frequency of Detection		20/20	19/19	19/19	19/19	19/19	19/19	19/19
	Location Id		WAP-07	WBW-A1-1	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5



HALEY & ALDRICH, INC. 400 Augusta Street Suite 100 Greenville, SC 29601 864.214.8750

#### **TECHNICAL MEMORANDUM**

December 19, 2023 File No. 132892-100-007-02

SUBJECT: Statistical Evaluation of the July 2023 Semiannual Groundwater Assessment Monitoring

Data, Winyah Generating Station, Closed Unit 2 Slurry Pond

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the July 2023 semiannual assessment monitoring event for the Winyah Generating Station (WGS) Closed Unit 2 Slurry Pond. Data for this groundwater sampling event were validated on September 20, 2023 by Santee Cooper.

#### **BACKGROUND**

Recent analytical testing results were evaluated to determine if statistically significant levels (SSLs) exist above Groundwater Protection Standards (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 for the background wells. There were no SSLs identified during the last sampling event.

#### STATISTICAL EVALUATION

The Rule in 40 CFR §257.93 (f) (1-4) provides four specific options for statistically evaluating whether water quality downgradient of the CCR unit represents a SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL). A tolerance interval is a concentration range, with a specified confidence level, designed to contain a pre-specified proportion of the underlying population from which the statistical sample is drawn. This statistical method was re-certified by Haley & Aldrich, Inc. on February 24, 2020.

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 data, parametric or non-parametric procedures were used to develop the UTL.

South Carolina Public Service Authority (Santee Cooper) December 19, 2023 Page 2

Parametric procedures use assumed distributions of the sample background data to develop 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 groundwater analytical results for each sampling event from the background sample location (WAP-1 and WBW-1) were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2023 and updated in the Chemstat output.

#### **TREND ANALYSIS**

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table I. In summary, all analyzed trends are identified as stable or decreasing for the compliance wells.

#### **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 the results from previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for the downgradient wells and constituents. A LCL was calculated for the arsenic concentration detected at WLF-A1-3 and is not considered a SSL. Consistent with all previous statistical evaluations, SSLs above GWPS were not identified. The Unit 2 Slurry Pond previously completed closure by removal pursuant to South Carolina state regulations and has operated under an assessment monitoring program in accordance with § 257.95, which was initiated on December 12, 2019. Starting in February 2020, this is the eighth statistical report

<sup>&</sup>lt;sup>1</sup> Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.



South Carolina Public Service Authority (Santee Cooper) December 19, 2023 Page 3

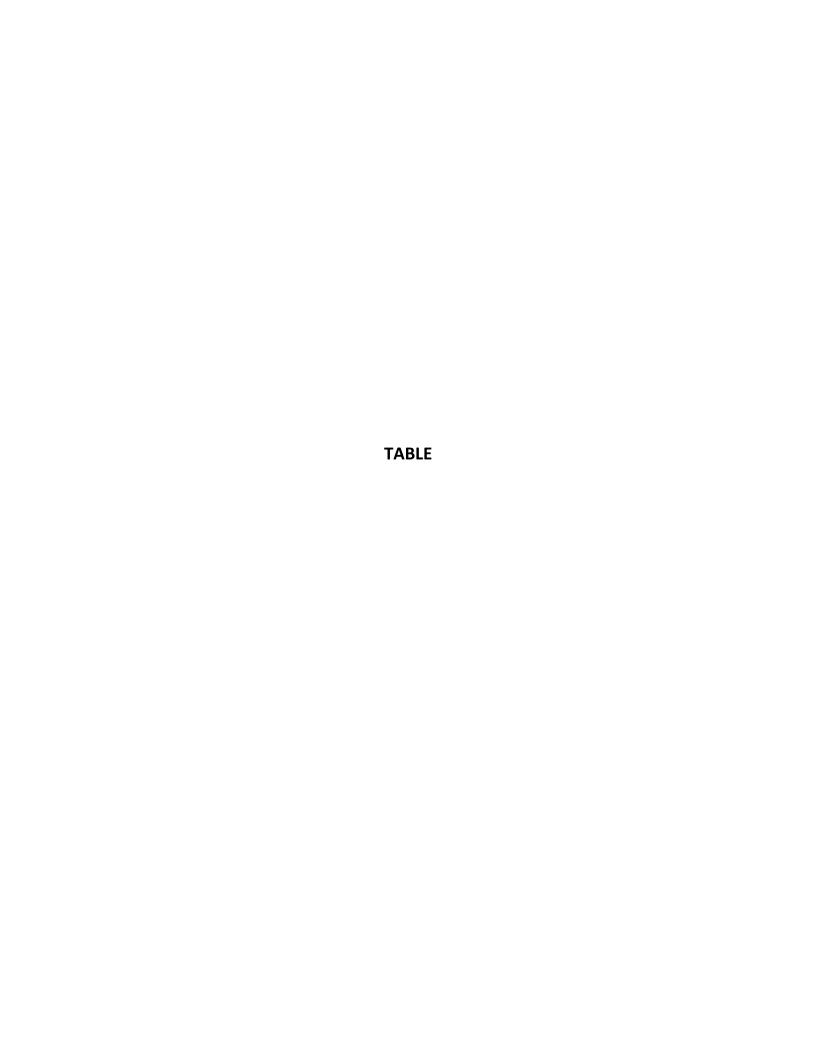
demonstrating that no SSLs exist, and this report meets the three-year regulatory criteria for closure pursuant CFR §257.98 (c)(2). Santee Cooper certified the Unit 2 Slurry Pond closed by removal in July 2023 including meeting all GWPS. Therefore, groundwater monitoring and statistical evaluations for the Unit 2 Slurry Pond will be discontinued.

#### **Enclosures:**

Table I – WGS Unit 2 Slurry Pond July 2023 Semiannual Assessment Monitoring Data

https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0\_Winyah Generating Station/Statistical Analysis/2023-10/Unit 2 Slurry Pond/client final/2023-1219\_HAI\_WGS\_Unit 2 SP\_Assessment Monitoring Stats\_F.docx





-	WGS UNIT 2 SLURRY POND	ULY 2023 SEMIANNUAL ASSESSMENT MONITORING DATA
TABLE	WGS UNIT	JULY 2023

	155			0 2	0 1	2 2	2 2	N 0N			No.	No.	ON 2	NO NO	No No	No			No.	No	No	No	No	No		No	98	No	No	No	8		No	2 2	No	No	No	8		No	No	No	0V 9V	No			02	NO NO	S S	- N	No			No No	No	No	No	No
	Exceedance above Background at Individual Well			2 2	2 2	2	2	2			2	2 2	2 :	2 2	z	Z			z	Z	Z	Z	N	Z		2	2	z	Z	N	Z		2	z	Z	Z	Z	Z		z	Z	Z	z	z			Z	2 2	2	2	z			z	Z	N	Z	N
	GWPS (Higher of MCL/RSL or Upper Tolerance Limit) mg/L		0.025							0,010	Orono							2:000							*0000	0.004							9000						0.100	2						9000							4.000					
	SS			2 2	2 2	: 2	z	: 2			2	2 2	2 :	z >	- 2	z			z	z	N	z	z	Z		z	z	Z	Z	N	Z		2	z	z	Z	N	z		Z	z	z	z z	zz			z	2 >	. >	. z	Z		,	- 2	z	N	z	Z
sis	Upper Tolerance Limit (mg/L)		0.025							0000	0,000							0.1145							0.000	0.0003						0000	0.002						100							0.0005							0.1					
Inter-well Analysis	101%56													5000	9000																																											
	Detect?			z :	2 :	2 2	2 2	z				z :	z	z :	- z	z			>	>	>	>	>	>		2	2 2	z	z	z	z			zz	z	z	z	z		z	z	z	z	zz			z	2 >	- >	- 2	z		,	- z	z	z	z	z
	July 2023 Concentration (mg/L)			0.005	0.005	0,000	0.00	0.005	6000		0.000	0.0030	0.0050	0.0050	0.010.0	0.0050			0.043	0.055	0.022	0.033	0.038	0.033		0 0000	0.000	0.0005	0.0005	0.0005	0.0005		0.0000	0.0005	0.0005	0.0005	0.0005	0.0005		0.005	0.005	0.005	0.005	0.005			0.0005	0.0005	0.000	0.0000	0.0005		0.000	0.100	0.100	0.100	0.100	0.100
	Distribution Group Concentration (mg/L)																																													NA							NA					
	Trend Dist		NA ::								NA NA			Ceriblo	NA	NA		Stable	Stable	Stable	Stable	creasing	stable	creasing		NA NA		NA		NA	NA		NA NA		NA		NA			NA	NA	NA				NA	NA				NA		NA 		NA	NA	NA	NA
	Outlier		NA ::	NA			NA				NA NA	MW MW				NA		No No	No	No				No De		NA NA	NA	NA		NA	NA		NA NA	NA NA	NA		NA			NA	NA	NA	W S			NA	NA			NA NA	NA		NA NA	NA NA	No	NA	NA	NA .
	Outlier C Presence Re		NA :													NA			No	No	No			No			NA NA	NA		NA	NA				NA		NA			NA	NA	NA				NA	NA :				NA		NA			NA	NA	NA
	Number of Non-Detection Exceedances			7 .												0		0	0	0	0	0		0				0	0	0	0				0	0	0	0	c	0	0	0	0 0			0	0	0 0			0		0 0		0	0	0	0
ŀ	Number of Detection Exceedances		0	0 0		> 0	0	0			0		0 0	0 -	1 0	0		0	0	0	0	0	0	0	ď	0 0	. 0	0	0	0	0		0 0		0	0	0	0	0	0	0	0	0 0	. 0		0	0	0 0	o 0	0	0		0	0 0	0	0	0	0
	Detection Num Exceedances (Y/N)		z	2 2	2 2	2 2	: z	· z		2	2 2	2 2	2 2	2 >	- z	z		z	z	z	z	z	z	z		2 2	: z	z	z	z	z		2 2	2 2	z	z	z	z	2	· z	z	z	2 2	2 2		z	z	2 2	: z	: z	z		2 2	2 2	z	z	z	z
	Result Exe		mg/L	mg/L	1811	me/l	mg/L	mg/L	à	U-ma	mg/L	mg/L	mg/t	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	0	mg/L	mg/L	1/8m	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	l/au	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	me/l	mg/L	1/8m		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	CCR MCL/RSL		9000	0.006	0,000	0.006	0.006	9000		100	70.0	70.0	10.0	10.0	0.01	0.01		2	2	2	2	2	2	2	1000	0.004	0.004	0.004	0.004	0.004	0.004	2000	0.005	0.005	0.005	9000	0.005	0.005	5	0.1	0.1	0.1	0.1	0.1		900'0	9000	9000	0.006	0.006	9000		4 .	: 4	4	4	4	4
	Coefficient of Variance		0.8315	0.8421	0.0313	0.8315	0.8315	0.8315		010	0.10	0.1549	0.1541	0.2303	0.2117	0.1863		0.1815	0.307	0.2203	0.3213	0.1327	0.2848	0.1486				0	0	0	0	0.000	0.6455	0	0	0.139	0	0	0.2421	0.2179	2.237E-08	2.237E-08	2.237E-08	2.237E-08		0	0.1016	0 7603	0.4275	0	0		1.278E-08	0.114/	0.1114	0.1118	0	0.02282
	Standard C Deviation	tal (mg/L)	0.005345	0.005105	0.000345	0.005345	0.005345	0.005345	(1/au)  e	1000000	0.0002141	197/0007	0.0007263	0.0003166	0.0009376	0.0008516	al (mg/L)	0.01644	0.00964	0.008528	0.01478	0.004519	0.01166	0.006433	tal (mg/L)				0	0	0	tal (mg/L)	0.0003443	0	0	0.00007216	0	0	0.001291	0.001147			1.1186-10	1.118E-10	il (mg/L)	0	0.0000526	0.0000545	0.0002827	0		mg/t)	1.278E-09	0.01179	0.01172	0.01147	0	0.002294
	Variance	f: Antimony, To		0.00002657					C Tol	00.70.07	0.0076-07			7.253E-07 U			IV: Barium, Tota	0.13 0.0002703 0.01644	0.00009293			0.00002042		0.00004139	/: Beryllium, Tol			0	0	0	0	/: Cadmium, Tor	0.00000015		0	5.207E-09 0.	0	0	0.000001667			1.251E-20 1	+		lt, Tot	0	60-	0 202000		+	0	oride		0.0001369	0.0001374	0.0001316		0.0000005263
	Maximum V	CCR Appendix-IV: Antimony, Total (mg/L)	0.0	3 6	3 6	3 0	0.0	0.0	CCR Appendix-	ymiaddw um	0.0033	+	ri ir	, 0000		7.	CCR Appendix-	0.13	0.0537 0.0			0.0405 0.0		0.0534 0.0	CCR Appendix-IV: Beryllium, Total (mg/L)							CCR Appendix-IV: Cadmium, Total (mg/L)	70	4		0.00077 5.		0 0	O O	0.0	-1	-11	ei e	4 4	CCR Appendix		+	0.0005		+		CCR Append	+	crin				0.11 0.0
	95th M Percentile		0.012	10.0	0.012	0.012	0.012	0.012		0000	0000		0.003	0.000		0.005		0.1172				0.03982		0.051		0,000	0.0005	0.0005	0.0005	0.0005	0.000.0		0.00055	0.0005	0.0005	10	0.0005	0.0005	99000	0.0055	0.005	0.005	0.005	0.005				0.0005			0.0005		0.1	0.1	0.131	0.105	0.1	0.101
	S0th Percentile (Median)		0.005	5000	5000	0.005	0.005	0.005		0000	0.003	0000	0.005			0.005		0.0862						0.0438	3000	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005		0.0000		0.0005		0.0005	0.0005	5000	0.005	0.005	0.005	0.005	0.005				0.0005		t	0.0005		0.1	0.1	0.1	0.1	0.1	0.1
	Mean 50th		-								0.0040			+					0.0314					0.0433 0		0.0003					0.0005		0 000000	-		0.000519 0		0.0005						0.005					-	-			0.1	0.1	90	0.103	0.1	101
				0.0000			H					+		000 0.00457	H			0.09	0.0	0.0387	0.0	0.0.	0.0	0.0			H							+					01 0 00533				+							H								
	Range of Non- s Detect		0.005-0.025	0.002-0.025	0.003-0.023	0.005-0.025	0.005-0.025	0.005-0.025		0.0000	0.003-0.003	0.003-0.	0.003-0.003	0.003-0.003	0.003-0.005	0.003-0.005		ľ	ŀ						30000	0.0003-0.0003	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0 0000	0.0005-0.002	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.005.0.01	0.005-0.01	0.005-0.005	0.005-0.005	0.005-0.005	0.005-0.005		0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005	0.0005-0.0005		0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1	0.1-0.1
	Percent Non-Detects		100%	100%	100%	100%	100%	100%		1000	7000	9000	100%	200%	100%	100%		860	%0	%0	960	%0	%0	%6	1000	100%	100%	100%	100%	100%	100%	1000	10000	100%	100%	93%	100%	100%	100%	100%	100%	100%	100%	100%		100%	81%	30%	82.8	100%	100%		100%	100%	79%	95%	100%	92%
	Frequency of Detection		0/14	0/16	0/14	0/14	0/14	0/14	1	0.045	0/15	1/19	0/14	0/14	9/14	0/14		71/11	19/19	16/16	16/16	16/16	16/16	16/16		0/14	0/10	0/14	0/14	0/14	0/14		0/15	0/13	0/14	1/14	0/14	0/14	0/15	0/19	0/14	0/14	0/14	0/14		0/14	3/16	1/14	5/14	0/14	0/14		0/18	1/18	4/19	1/19	0/19	1/19
ľ	Location Id		WBW-A1-1	WAP-U/	WLTAIL	WIF-A1-3	WLF-A1-4	WLF-A1-5		1.10.00	T-TW-AAGA	WAP-U/	WLF-A1-1	WLF-A1-2	WLF-A1-5	WLF-A1-5		WBW-A1-1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5	, 10 M	WAD-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5	, , ,	WBW-AL-L	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5	WRW.41.1	WAP-07	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-5		WBW-A1-1	WAP-07	WLF-A1-1	WIF-A1-3	WLF-A1-4	WLF-A1-5		WBW-A1-1	WLF-A1-1	WLF-A1-2	WLF-A1-3	WLF-A1-4	WLF-A1-5

**Appendix B - Laboratory Analytical Reports** 



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

Sample # AF56432

Location: WGS well WBW A1

Date: 02/14/2023

Sample Collector: ZDM/ML

Loc. Code WE	3V	V-/	1	<u>l-1</u>	1
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.oc.	Code	VVBVV	-A1-1	

		•	Dutc. OZ/14/202	Sample Com	SCIOI. ZDIVI/IVIL
Loc. Code WBW-A1-1			Time: 15:22		
Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	1.17	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Aluminum - Dissolved	1.30	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.7
Arsenic	<3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Arsenic Dissolved	<3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Barium	88.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Barium Dissolved	102	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Beryllium	<0.5	ug/L	03/22/2023	<b>EUROFINS SAV</b>	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	85.6	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Calcium Dissolved	87.9	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Selenium	<20.0	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Selenium - Dissolved	<20	ug/L	03/21/2023	EUROFINS SAV	
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 200.8
Thallium - Dissolved	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Boron	46.9	ug/L	04/20/2023		EPA 200.8
Boron Dissolved	55	ug/L	03/24/2023	LCWILLIA	EPA 6010D
Lithium	<5	-		EUROFINS SAV	EPA 6010D
Lithium Dissolved	<5 <5	ug/L	04/20/2023	LCWILLIA	EPA 6010D
Molybdenum	<10	ug/L	04/19/2023	LCWILLIA	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Mercury		ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron	0.200	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron - Dissolved	5130	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	5240	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
	2.03	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium Dissolved	2.2	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Sodium Discolund	11.3	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Sodium Dissolved	11.7	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	2.66	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium Dissolved	2.75	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese	46.7	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	42.8	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Zinc Dissolved	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Nickel	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 200.8
Sulfide	<0.1	mg/L	02/20/2023	GEL	EPA 9034
Total Organic Carbon	3.16	mg/L	02/21/2023	GEL	SM 5310B
Dissoloved Organic Carbon	3.19	mg/L	02/22/2023	GEL	SM 5310B



# SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF56432

Silver- Dissolved

Location: WGS well WBW A1

<1

Date: 02/14/2023

03/21/2023

**EUROFINS SAV** 

Time: 15:22

Sample Collector: ZDM/ML

EPA 200.8

			THITOT TOILL		
Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Sulfate	234	mg/L	02/16/2023	KCWELLS	EPA 300.0
Chloride	14.7	mg/L	02/16/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	02/16/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	388.8	mg/L	02/23/2023	SJBROWN	SM 2540C
Radium 226	1.71	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Radium 228	1.80	pCi/L	03/14/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.51	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	02/23/2023	GEL	SM2320B
Alkalinity	<4	mg/L	02/23/2023	GEL	SM 2320B
Bicarbonate Alkalinity	<4	mg/L	02/23/2023	GEL	SM 2320B
Total Phosphorus	< 0.025	mg/L	02/22/2023	KCWELLS	EPA 365.1
SiO2	5030	%	03/30/2023	<b>EUROFINS SAV</b>	ASTM D3682
SiO2 Dissolved	5030	ug/L	03/30/2023	<b>EUROFINS SAV</b>	EPA 200.7
Silver	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
· ·		-			

ug/L

#### 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:

Lindaliellers



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

Sample # AF56400

Location: GW Well WAP-7

Date: 02/16/2023

Sample Collector: ZDM/MDG

Loc. Code WAP-7

Time: 12:55

		Time: 12:55		
Result	Units	Test Date	Analyst	Method
	-	03/16/2023		EPA 6020B
	_		EUROFINS SAV	EPA 200.7
	_		SJHATCHE	EPA 6020B
	_		SJHATCHE	EPA 6020B
			SJHATCHE	EPA 6020B
	-	03/20/2023		EPA 6020B
	_	03/16/2023		EPA 6020B
				EPA 6020B
	-			EPA 6020B
	_			EPA 6020B
	_		SJHATCHE	EPA 6020B
			EUROFINS SAV	EPA 200.8
	_		SJHATCHE	EPA 6020B
	_		SJHATCHE	EPA 6020B
	-		SJHATCHE	EPA 6020B
	_			EPA 200.8
		03/16/2023	SJHATCHE	EPA 6020B
		03/20/2023	EUROFINS SAV	EPA 200.8
	_			EPA 6020B
	_		EUROFINS SAV	EPA 200.8
	_		SJHATCHE	EPA 6020B
				EPA 200.8
	_			EPA 6020B
	_			EPA 200.8
				EPA 6010D
				EPA 6010D
				EPA 6010D
	=			EPA 6010D
	_			EPA 6010D
				EPA 6010D
	_			EPA 7470
				EPA 6020B
			SJHATCHE	EPA 6020B
			SJHATCHE	EPA 6020B
	_			EPA 6020B
	_			EPA 6020B
				EPA 6020B
	_			EPA 6020B
				EPA 6020B
	-			EPA 6020B
	_			EPA 6020B
				EPA 6020B
			EUROFINS SAV	EPA 6020B
	=		SJHATCHE	EPA 6020B
			SJHATCHE	EPA 6020B
	-			EPA 200.8
				EPA 9034
				SM 5310B
0.21	mg/L	02/22/2023	GEL	SM 5310B
	Result 0.1 <0.1 <5.0 <5.0 39.9 46.4 <0.50 <0.5 252 264 <0.5 <0.5 <0.5 <0.5 <1.0 <2.5 <5.0 <5 <10.0 <20 <1.0 <1 828 810 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00	0.1       mg/L         <0.1	0.1 mg/L 03/16/2023  <0.1 mg/L 03/20/2023  <5.0 ug/L 03/16/2023  <5.0 ug/L 03/16/2023  39.9 ug/L 03/16/2023  46.4 ug/L 03/20/2023  40.50 ug/L 03/16/2023  40.51 ug/L 03/16/2023  252 mg/L 03/16/2023  254 mg/L 03/20/2023  <0.5 ug/L 03/16/2023  20.5 ug/L 03/20/2023  <0.5 ug/L 03/16/2023  <0.5 ug/L 03/16/2023  <0.5 ug/L 03/20/2023  <0.5 ug/L 03/16/2023  <1.0 ug/L 03/16/2023  <5.0 ug/L 03/16/2023  <5.0 ug/L 03/16/2023  <5.0 ug/L 03/16/2023  <1.0 ug/L 03/16/2023  <1.0 ug/L 03/16/2023  <1.0 ug/L 03/16/2023  <1.0 ug/L 03/16/2023  <5.0 ug/L 03/20/2023  <1.0 ug/L 03/16/2023  <5.0 ug/L 03/20/2023  <1.0 ug/L 03/23/2023  <5.00 ug/L 03/23/2023  <5.00 ug/L 03/23/2023  <5.00 ug/L 03/23/2023  <5.00 ug/L 03/23/2023  <1.0 ug/L 03/23/2023  <1.0 ug/L 03/23/2023  <5.0 ug/L 03/21/2023  <5.0 ug/L 03/21/2023  <1.0 ug/L 03/20/2023  <1.0 ug/L 03/16/2023  <1.0 ug/L 03/16/202	Result



### SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

#### LAB CERTIFICATION #08552

Sample # AF56400

Location: GW Well WAP-7

Date: 02/16/2023

Sample Collector: ZDM/MDG

Loc. Code WAP-7 Time: 12:55

			11110, 12.00		
Analysis	Result	Units	Test Date	Analyst	Method
Nitrate-Nitrite Cadmium Reduction	10.200	mg/L	02/22/2023	GEL	EPA 353.2
Sulfate	429	mg/L	02/24/2023	KCWELLS	EPA 300.0
Chloride	67.7	mg/L	02/24/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	02/24/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1105	mg/L	02/23/2023	SJBROWN	SM 2540C
Radium 226	0.835	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Radium 228	1.71	pCi/L	03/14/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.55	pCi/L	03/16/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	02/23/2023	GEL	SM2320B
Alkalinity	74.2	mg/L	02/23/2023	GEL	SM 2320B
Bicarbonate Alkalinity	74.2	mg/L	02/23/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

#### 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:

Lindal Illians



# SANTEE COOPER ANALYTICAL SERVICES

### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF56433

Location: WGS well WLF A1-1

Date: 02/28/2023

Sample Collector: ZDM/ML

Loc. Code V	VLF-A1-1	Time: 12:58
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Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	739	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	20.1	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1578	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	0.644	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	-0.250	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.644	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<6.67	mg/kg	03/09/2023	GEL	SM2320B
Alkalinity	322	mg/L	03/09/2023	GEL	SM 2320B
Bicarbonate Alkalinity	322	mg/L	03/09/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

#### 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:

Kindal Illians



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

#### LAB CERTIFICATION #08552

Sample # AF56434 Location: WGS well WLF A1-2 Date: 02/27/2023 Sample Collector: ZDM/ML

Loc. Code WLF-A1-2 Time: 15:44

Loc. Code WLF-A1-2		Time: 15:44					
Analysis	Result	Units	Test Date	Analyst	Method		
Aluminum	1.43	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Aluminum - Dissolved	0.930	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.7		
Arsenic	<3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Arsenic Dissolved	<3	ug/L	03/22/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Barium	41.2	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Barium Dissolved	38.9	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Beryllium	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Beryllium Dissolved	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Calcium	62.90	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Calcium Dissolved	60	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Cadmium	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Cobalt	2.15	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Cobalt Dissolved	2.4	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Chromium	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Boron	220	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Boron Dissolved	247	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D		
Lithium	<5	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Lithium Dissolved	<5	ug/L	04/19/2023	LCWILLIA	EPA 6010D		
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D		
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470		
Iron	3180	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Iron - Dissolved	2930	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Potassium	<1	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Potassium Dissolved	<1	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Sodium	4.81	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Sodium Dissolved	4.74	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Magnesium	1.95	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Magnesium Dissolved	1.91	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Manganese	52.9	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Manganese Dissolved	50.9	ug/L	03/24/2023	EUROFINS SAV			
Zinc	264	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Zinc Dissolved	68.5	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Copper	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Nickel	<b>&lt;</b> 5	ug/L	03/21/2023		EPA 6020B		
Nickel - Dissolved	<5	ug/L	03/21/2023	EUROFINS SAV EUROFINS SAV	EPA 6020B		
Sulfide	<0.1	mg/L	03/20/2023		EPA 200.8		
Total Organic Carbon	1.41	mg/L		GEL	EPA 9034		
Dissoloved Organic Carbon	2.30	mg/L	03/11/2023 03/10/2023	GEL	SM 5310B		
	2.00	mg/L	03/10/2023	GEL	SM 5310B		



#### SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF56434

Location: WGS well WLF A1-2

Date: 02/27/2023

Sample Collector: ZDM/ML

Loc. (	Code	WLF	F-A1-2	
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/LF-A1-2	Time: 15:44

	111101 10111				
Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	144	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	18.0	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	260.0	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	1.11	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	2.28	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.38	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	03/09/2023	GEL	SM2320B
Alkalinity	8.00	mg/L	03/09/2023	GEL	SM 2320B
Bicarbonate Alkalinity	8.00	mg/L	03/09/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

#### 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:

Kinda William



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

Sample # AF56435

Location: WGS well WLF A1-3

Date: 02/28/2023

Sample Collector: ZDM/ML

Loc. Code WLF-A1-3

EGG. GOGE WEI 7(1-6	IIMe: 11:44						
<b>Analysis</b> Aluminum	Result	Units	Test Date	Analyst	Method		
	3.47	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Aluminum - Dissolved	3.79	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7		
Arsenic	8.46	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Arsenic Dissolved	8.0	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B		
Barium Diagahad	29.9	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Barium Dissolved	34.7	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Beryllium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Beryllium Dissolved	<0.5	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B		
Calcium	20.40	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Calcium Dissolved	22	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Cadmium	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Cobalt	1.03	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Cobalt Dissolved	1.3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Chromium	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Chromium - Dissolved	<5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Lead	<2.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Lead - Dissolved	<2.5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Antimony	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Antimony - Dissolved	<5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Selenium	<20	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Selenium - Dissolved	<20	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Thallium	<1	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Thallium - Dissolved	<1	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Boron	178	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Boron Dissolved	190	ug/L	03/23/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Lithium	<5	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Lithium Dissolved	<5	ug/L	04/19/2023	LCWILLIA	EPA 6010D		
Molybdenum	<10	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Molybdenum Dissolved	<10	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Mercury	<0.2	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 7470		
Iron	863	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Iron - Dissolved	880	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Potassium	<1	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Potassium Dissolved	<1	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Sodium	3.07	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Sodium Dissolved	3.26	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Magnesium	0.821	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Magnesium Dissolved	0.890	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Manganese	24.2	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Manganese Dissolved	25.4	ug/L	03/24/2023	EUROFINS SAV	EPA 6020B		
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Sulfide	<0.1	mg/L	03/07/2023	GEL	EPA 9034		
Total Organic Carbon	1.14	mg/L	03/11/2023	GEL	SM 5310B		
Dissoloved Organic Carbon	1.92	mg/L	03/10/2023	GEL	SM 5310B		
-			- 57 . 107 = 10 = 10	OLL.	OWI OU IUD		



# SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF56435

Location: WGS well WLF A1-3

Date: 02/28/2023

Sample Collector: ZDM/ML

Loc. Code WLF-A1-3

Time: 11:44

Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	76.1	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	4.83	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	118.8	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	1.32	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	1.77	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.09	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	03/09/2023	GEL	SM2320B
Alkalinity	<4	mg/L	03/09/2023	GEL	SM 2320B
Bicarbonate Alkalinity	<4	mg/L	03/09/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

#### 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:

avrda Wellar



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

Sample # AF56436 Location: WGS well WLF A1-4 Date: 02/28/2023 Sample Collector: ZDM/ML

Loc. Code WLF-A1-4 Time: 10:19

Loc. Oode WEI -A 1-4	Time: 10:19						
<b>Analysis</b> Aluminum	Result	Units	Test Date	Analyst	Method		
Aluminum - Dissolved	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Arsenic	<0.1	mg/L	03/20/2023	EUROFINS SAV	EPA 200.7		
Arsenic Dissolved	<3	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Barium	<3	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B		
Barium Dissolved	35.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Beryllium	37.2	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Beryllium Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Calcium	<0.5	ug/L	03/22/2023	EUROFINS SAV	EPA 6020B		
Calcium Dissolved	85.50	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
	92	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Cadmium Dispolated	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Cobalt Cobalt Discount	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Cobalt Dissolved	<0.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Chromium	<b>&lt;</b> 5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Antimony	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Antimony - Dissolved	<5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Selenium	<20	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Selenium - Dissolved	<20	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Thallium	<1	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Thallium - Dissolved	<1	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Boron	259	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Boron Dissolved	317	ug/L	03/23/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Lithium	<5	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Lithium Dissolved	<5	ug/L	04/19/2023	LCWILLIA	EPA 6010D		
Molybdenum	<10	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Molybdenum Dissolved	<10	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Mercury	<0.2	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 7470		
Iron	1170	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Iron - Dissolved	771	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Potassium	1.46	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Potassium Dissolved	1.6	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Sodium	4.49	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Sodium Dissolved	5.43	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Magnesium	1.97	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Magnesium Dissolved	2.50	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Manganese	81.1	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Manganese Dissolved	79.8	ug/L	03/24/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Zinc	53.3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Zinc Dissolved	42.9	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Sulfide	<0.1	mg/L	03/07/2023	GEL	EPA 9034		
Total Organic Carbon	9.67	mg/L	03/11/2023	GEL	SM 5310B		
Dissoloved Organic Carbon	10.1	mg/L	03/10/2023	GEL	SM 5310B		
_	-	- 3		V	O 00 10D		



# SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

Sample # AF56436 Location: WGS well WLF A1-4

Date: 02/28/2023

Sample Collector: ZDM/ML

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Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	74.8	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	11.4	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	353.8	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	0.482	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	-0.0291	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.482	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	03/09/2023	GEL	SM2320B
Alkalinity	118	mg/L	03/09/2023	GEL	SM 2320B
Bicarbonate Alkalinity	118	mg/L	03/09/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

#### 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



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

Sample # AF56437 Location: WGS well WLF A1-4 Date: 02/28/2023 Sample Collector: ZDM/ML

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Loc. Code WLF-A1-4	DUP		Time: 10:24				
Analysis	Result	Units	Test Date	Analyst	Method		
Aluminum	<0.1	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.7		
Arsenic	<3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Arsenic Dissolved	<3	ug/L	03/22/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Barium	36.2	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Barium Dissolved	36.8	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Beryllium	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Beryllium Dissolved	<0.5	ug/L	03/22/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Calcium	92.30	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Calcium Dissolved	93	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Cadmium	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8		
Cobalt	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Cobalt Dissolved	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Chromium	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Chromium - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Lead	<2.5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Lead - Dissolved	<2.5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Antimony	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Antimony - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Selenium	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Selenium - Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Thallium - Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Boron	238	ug/L	04/24/2023	LCWILLIA	EPA 6010D		
Boron Dissolved	246	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D		
Lithium	<5	ug/L	03/24/2023	EUROFINS SAV	EPA 6010D		
Lithium Dissolved	<5	ug/L	04/19/2023	LCWILLIA	EPA 6010D		
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D		
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Mercury	<0.2	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 7470		
Iron	1310	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Iron - Dissolved	1200	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Potassium	1.23	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Potassium Dissolved	1.3	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Sodium	3.60	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D		
Sodium Dissolved	3.59	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Magnesium	1.71	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D		
Magnesium Dissolved	1.75	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Manganese	88.0	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Manganese Dissolved	91.5	ug/L	03/24/2023	<b>EUROFINS SAV</b>	EPA 6020B		
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B		
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B		
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8		
Sulfide	<0.1	mg/L	03/07/2023	GEL	EPA 9034		
Total Organic Carbon	10.2	mg/L	03/11/2023	GEL	SM 5310B		
Dissoloved Organic Carbon	10.5	mg/L	03/10/2023	GEL	SM 5310B		
		-					



#### SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

Sample # AF56437 Location: WGS well WLF A1-4 Date: 02/28/2023 Sample Collector: ZDM/ML

Loc. Code WLF-A1-4 DUP Time: 10:24 **Analysis** Result Units **Test Date Analyst** Method Nitrite < 0.10 mg/L 03/02/2023 **KCWELLS** EPA 300.0 Nitrate < 0.10 mg/L 03/02/2023 **KCWELLS** EPA 300.0 Sulfate 76.1 mg/L 03/02/2023 **KCWELLS** EPA 300.0 Chloride 10.7 mg/L 03/02/2023 **KCWELLS** EPA 300.0 Fluoride < 0.10 mg/L 03/02/2023 **KCWELLS** EPA 300.0 Total Dissolved Solids 397.5 mg/L 03/09/2023 **SJBROWN** SM 2540C Radium 226 0.569 pCi/L 04/03/2023 **GEL** EPA 903.1 Mod Radium 228 -0.766pCi/L 03/29/2023 **GEL** EPA 904.0 Radium 226/228 Combined Calculation 0.569 pCi/L 04/03/2023 **GEL** EPA 903.1 Mod Alkalinity as CaCO3 <4 mg/kg 03/09/2023 **GEL** SM2320B Alkalinity 126 mg/L 03/09/2023 **GEL** SM 2320B Bicarbonate Alkalinity 126 mg/L 03/09/2023 **GEL** SM 2320B Silver <1 ug/L 03/20/2023 **EUROFINS SAV EPA 6020B** Silver- Dissolved <1 ug/L 03/20/2023 **EUROFINS SAV EPA 200.8** 

#### 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:

Kinda William



#### One Riverwood Drive P.O. Box 2946101 Moncks Corner, SC 29461-2901

(843) 761-8000

# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

**Sample #** AF56438 Location: WGS well WLF A1-5 Date: 02/28/2023 Sample Collector: ZDM/ML

Loc. Code WLF-A1-5 Time: 14:31

Loc. Code VVLF-A1-5			Time: 14:31		
Analysis	Result	Units	<b>Test Date</b>	Analyst	Method
Aluminum	<0.1	mg/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Aluminum - Dissolved	<0.1	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.7
Arsenic	<3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Arsenic Dissolved	<3	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Barium	34.9	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Barium Dissolved	41.2	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B
Beryllium	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Beryllium Dissolved	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	287.0	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D
Calcium Dissolved	296	mg/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6020B
Cadmium	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Cadmium - Dissolved	<0.5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8
Cobalt	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt Dissolved	<0.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Chromium - Dissolved	<5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8
Lead	<2.5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Lead - Dissolved	<2.5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8
Antimony	<5	ug/L	03/21/2023	<b>EUROFINS SAV</b>	EPA 6020B
Antimony - Dissolved	<5	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8
Selenium	<20	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 6010D
Selenium - Dissolved	<20	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8
Thallium	<1	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Thallium - Dissolved	<1	ug/L	03/20/2023	<b>EUROFINS SAV</b>	EPA 200.8
Boron	2020	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Boron Dissolved	1830	ug/L	03/23/2023	EUROFINS SAV	EPA 6010D
Lithium	7.24	ug/L	04/24/2023	LCWILLIA	EPA 6010D
Lithium Dissolved	6.7	ug/L	04/19/2023	LCWILLIA	EPA 6010D
Molybdenum	<10	ug/L	03/21/2023	EUROFINS SAV	EPA 6010D
Molybdenum Dissolved	<10	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	03/21/2023	EUROFINS SAV	EPA 7470
Iron	1800	ug/L	03/20/2023	EUROFINS SAV	EPA 6010D
Iron - Dissolved	1040	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Potassium	6.74	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Potassium Dissolved	6.8	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Sodium	17.5	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Sodium Dissolved	18.0	mg/L	03/21/2023	EUROFINS SAV	EPA 6020B
Magnesium	28.0	mg/L	03/20/2023	EUROFINS SAV	EPA 6010D
Magnesium Dissolved	28.8	mg/L	03/20/2023	EUROFINS SAV	EPA 6020B
Manganese	495	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Manganese Dissolved	472	ug/L	03/25/2023	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Zinc Dissolved	<20	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	03/21/2023	EUROFINS SAV	EPA 6020B
Nickel - Dissolved	<5	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8
Sulfide	<0.1	mg/L	03/07/2023	GEL	EPA 9034
Total Organic Carbon	7.51	mg/L	03/11/2023	GEL	SM 5310B
Dissoloved Organic Carbon	7.98	mg/L	03/10/2023	GEL	SM 5310B
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# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF56438

Location: WGS well WLF A1-5

Date: 02/28/2023

Sample Collector: ZDM/ML

Loc. Code	WLF-A1-5
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.F-A1-5	Time: 14:31

			Time. 14.51		
Analysis	Result	Units	Test Date	Analyst	Method
Nitrite	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Sulfate	422	mg/L	03/02/2023	KCWELLS	EPA 300.0
Chloride	153	mg/L	03/02/2023	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	03/02/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1132	mg/L	03/09/2023	SJBROWN	SM 2540C
Radium 226	1.32	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Radium 228	2.60	pCi/L	03/29/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.92	pCi/L	04/03/2023	GEL	EPA 903.1 Mod
Alkalinity as CaCO3	<4	mg/kg	03/09/2023	GEL	SM2320B
Alkalinity	209	mg/L	03/09/2023	GEL	SM 2320B
Bicarbonate Alkalinity	209	mg/L	03/09/2023	GEL	SM 2320B
Silver	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 6020B
Silver- Dissolved	<1	ug/L	03/20/2023	EUROFINS SAV	EPA 200.8

#### 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:

anda Williams



### SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF68749

Location: WGS well WBW A1

Date: 07/12/2023

Sample Collector: WJK/ML

Loc. Code WBW-A1-1

Time: 10:52

Loc. Code WDW-A1-1			Time: 10:52		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Barium	86.2	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Calcium	121000	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Iron	4270	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Thallium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Boron	60.2	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/26/2023	<b>EUROFINS SAV</b>	EPA 7470
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	07/15/2023	KCWELLS	EPA 300.0
Chloride	11.6	mg/L	07/15/2023	KCWELLS	EPA 300.0
Sulfate	349	mg/L	07/15/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	536.2	mg/L	07/14/2023	NTCHIN	SM 2540C
Radium 226	0.697	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
Radium 228	0.544	pCi/L	08/10/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.24	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
pH	4.60	SU	07/11/2023	WJK/ML	Li A 903.1 MOU

#### 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 - Manager Analytical Services

Validation date:

9/18/23



#### SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

#### LAB CERTIFICATION #08552

**Sample #** AF68717 Location: GW Well WAP-7 Date: 06/27/2023 Sample Collector: WJK/ML

Loc. Code WAP-7 Time: 13:57

Loc. Code WAF-7			Time: 13.57		
Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	08/08/2023	EUROFINS SAV	EPA 6020B
Arsenic	<3	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	42.8	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Calcium	605	ug/L	08/03/2023	<b>EUROFINS SAV</b>	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Iron	169	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Magnesium	13.8	mg/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<20	ug/L	08/03/2023	<b>EUROFINS SAV</b>	EPA 6010D
Thallium	<1	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Boron	3680	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/21/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2023	<b>EUROFINS SAV</b>	EPA 7470
Zinc	<20	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Copper	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Nickel	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Fluoride	0.15	mg/L	07/07/2023	KCWELLS	EPA 300.0
Chloride	73.4	mg/L	07/07/2023	KCWELLS	EPA 300.0
Sulfate	1270	mg/L	07/07/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	2362	mg/L	07/05/2023	NTCHIN	SM 2540C
Radium 226	0.446	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
Radium 228	2.51	pCi/L	07/17/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.96	pCi/L	07/24/2023	GEL	EPA 903.1 Mod
pH	6.40	SU	06/27/2028	WJK/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

Validation date:

Analysis Validated:

Linda Williams - Manager Analytical Services



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF68750

Location: WGS well WLF A1-1

Date: 07/10/2023

Sample Collector: WJK/ML

Loc. Code	WLF-A1-1
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WLF-A1-1	Time:
	I IIII G.

Loc. Code WLF-A1-1			Time: 10:00		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Barium	54.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Calcium	426000	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Iron	33500	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Thallium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Boron	76.3	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/26/2023	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	08/11/2023	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	17.8	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	849	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	1622	mg/L	07/14/2023	NTCHIN	SM 2540C
Radium 226	0.970	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
Radium 228	0.458	pCi/L	08/10/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.43	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
рН	6.06	SU	07/10/2023	WJK/ML	E1 A 800.1 WOU

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 - Manager Analytical Services

Validation date:



# SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF68751

Location: WGS well WLF A1-2

Date: 07/10/2023

Sample Collector: WJK/ML

Loc.	Code	WI	F-A1-2	
LUC.	Ouce	V V L	., -~ 1-~	

Loc. Code WLF-A1-2			Time: 11:18		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Barium	21.9	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Calcium	25000	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Cobalt	0.65	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Iron	724	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D
Thailium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Boron	810	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/26/2023	<b>EUROFINS SAV</b>	EPA 7470
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B
Nickel	0.82	ug/L	08/11/2023	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	2.32	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	41.6	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	97.50	mg/L	07/14/2023	NTCHIN	SM 2540C
Radium 226	1.30	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
Radium 228	2.87	pCi/L	08/10/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.17	pCi/L	08/11/2023	GEL	EPA 903.1 Mod
рН	4.45	SU	07/10/2023	WJK/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 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated: /

Linda Williams - Manager Analytical Services

Validation date:



# SANTEE COOPER ANALYTICAL SERVICES

### **CERTIFICATE OF ANALYSIS**

# LAB CERTIFICATION #08552

**Sample #** AF68752

Location: WGS well WLF A1-3

67.9

101.2

0.0603

3.55

3.61

4.45

Date: 07/06/2023

07/13/2023

07/13/2023

08/01/2023

07/18/2023

08/02/2023

07/06/2023

**KCWELLS** 

**KCWELLS** 

**NTCHIN** 

**GEL** 

**GEL** 

GEL

WJK/ML

EPA 300.0

EPA 300.0

SM 2540C

EPA 903.1 Mod

EPA 904.0

EPA 903.1 Mod

Time: 14:09

Sample Collector: WJK/ML

Loc. Code	WLF-A1-3
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			- 1111101 - 1100		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	10.7	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	32.8	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	18700	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Cobalt	0.810	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Iron	608	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Selenium	<20	ug/L	08/03/2023	EUROFINS SAV	EPA 6010D
Thallium	<1	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Boron	207	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	5.16	mg/L	07/13/2023	KCWELLS	EPA 300.0

mg/L

mg/L

pCi/L

pCi/L

pCi/L

SU

#### Comments:

Sulfate

pΗ

Radium 226

Radium 228

**Total Dissolved Solids** 

Radium 226/228 Combined Calculation

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 - Manager Analytical Services

Validation date:



#### SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF68753

Location: WGS well WLF A1-4

Date: 07/06/2023

Sample Collector: WJK/ML

Loc. Code WLF-A1-4

F-A1-4 Time: 13:08

Loc. Code WEI -A1-4			Time: 13:08		
Analysis Arsenic	Result	Units	Test Date	Analyst	Method
	<3	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Barium	38.4	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	90200	ug/L	08/03/2023	<b>EUROFINS SAV</b>	EPA 6010D
Cadmium	<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Iron	3330	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<20	ug/L	08/03/2023	<b>EUROFINS SAV</b>	EPA 6010D
Thallium	<1	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Boron	204	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2023	EUROFINS SAV	EPA 7470
Zinc	<20	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Copper	<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
Nickel	<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
Chloride	14.1	mg/L	07/13/2023	KCWELLS	EPA 300.0
Sulfate	92.5	mg/L	07/13/2023	KCWELLS	EPA 300.0
Total Dissolved Solids	346.2	mg/L	07/13/2023	NTCHIN	SM 2540C
Radium 226	1.05	pCi/L	08/01/2023	GEL	EPA 903.1 Mod
Radium 228	1.28	pCi/L	07/18/2023	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.34	pCi/L	08/02/2023	GEL	EPA 903.1 Mod
pH	6.37	SU	07/06/2023	WJK/ML	E. A 000.1 Wod

#### 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 - Manager Analytical Services

Validation date:

9/18/23



### SANTEE COOPER ANALYTICAL SERVICES

# **CERTIFICATE OF ANALYSIS**

#### LAB CERTIFICATION #08552

**Sample #** AF68754

Location: WGS well WLF A1-4

Date: 07/06/2023

Sample Collector: WJK/ML

DUP		Time: 13:13		
Result	Units	Test Date	Analyst	Method
<3	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
38.4	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
88000	ug/L	08/03/2023	<b>EUROFINS SAV</b>	EPA 6010D
<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<0.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
3320	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<2.5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<5	ug/L	08/08/2023		EPA 6020B
<20	ug/L	08/03/2023		EPA 6010D
<1	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
211	ug/L	08/23/2023	SKJACOBS	EPA 6010D
<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
<5.0	ug/L	08/23/2023	SKJACOBS	EPA 6010D
<0.2	ug/L	07/14/2023	<b>EUROFINS SAV</b>	EPA 7470
<20	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<5	ug/L	08/08/2023	<b>EUROFINS SAV</b>	EPA 6020B
<5	ug/L	08/08/2023	EUROFINS SAV	EPA 6020B
<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0
14.1	mg/L	07/13/2023		EPA 300.0
92.2	mg/L	07/13/2023		EPA 300.0
337.5	mg/L	07/13/2023		SM 2540C
0.321	pCi/L	08/01/2023		EPA 903.1 Mod
2.81	pCi/L	07/18/2023		EPA 904.0
3.13	pCi/L	08/02/2023	GEL	EPA 903.1 Mod
	Result	Result         Units           <3	Result         Units         Test Date           <3	Result         Units         Test Date         Analyst           <3

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 - Manager Analytical Services

Validation date:

Authorized Signature Only- Not Valid Unless Signed



# SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

**Sample #** AF68755

Location: WGS well WLF A1-5

Date: 07/10/2023

Sample Collector: WJK/ML

Loc. Code	WL	.F-A1-5	
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Time: 12:59

	1 ime: 12.39							
Analysis	Result	Units	Test Date	Analyst	Method			
Arsenic	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Barium	32.8	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Beryllium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Calcium	258000	ug/L	08/10/2023	SKJACOBS	EPA 6010D			
Cadmium	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Cobalt	<0.5	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Chromium	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Iron	2800	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Lead	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Antimony	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Selenium	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6010D			
Thallium	<1.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Boron	1550	ug/L	08/04/2023	SKJACOBS	EPA 6010D			
_ithium	5.11	ug/L	08/04/2023	SKJACOBS	EPA 6010D			
Molybdenum	<5.0	ug/L	08/04/2023	SKJACOBS	EPA 6010D			
Mercury	<0.2	ug/L	07/26/2023	EUROFINS SAV	EPA 7470			
Zinc	<10.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Copper	<5.0	ug/L	08/10/2023	SKJACOBS	EPA 6020B			
Nickel	<0.5	ug/L	08/11/2023	SKJACOBS	EPA 6020B			
Fluoride	<0.10	mg/L	07/13/2023	KCWELLS	EPA 300.0			
Chloride	101	mg/L	07/13/2023	KCWELLS	EPA 300.0			
Sulfate	378	mg/L	07/13/2023	KCWELLS	EPA 300.0			
Total Dissolved Solids	1121	mg/L	07/14/2023	NTCHIN	SM 2540C			
Radium 226	1.03	pCi/L	08/11/2023	GEL	EPA 903.1 Mod			
Radium 228	1.17	pCi/L	08/10/2023	GEL				
Radium 226/228 Combined Calculation	2.19	pCi/L	08/11/2023	GEL	EPA 904.0			
р <b>Н</b>	6.81	SU	07/10/2023	WJK/ML	EPA 903.1 Mod			
		-	07/10/2020	VVOIVIL				

#### 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 - Manager Analytical Services

Validation date: 9/18/23



#### SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

#### LAB CERTIFICATION #08552

**Sample #** AF79070

Location: WGS well WLF A1-3

Date: 09/27/2023

Sample Collector: ZDM/BSB

Loc. Code WI F-A1-3 Time: 12:20

Eddi dddd - 11 Ei - 11 G		111101.1.2.20						
Analysis	Result	Units	Test Date	Analyst	Method			
Arsenic	7.5	ug/L	10/03/2023	SKJACOBS	EPA 6020B			
Arsenic Dissolved	8.0	ug/L	09/29/2023	SKJACOBS	EPA 6020B			
pН	3.99	SU	09/27/2023	ZDM/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

Validation date:

Linda Williams - Manager Analytical Services





gel.com

February 24, 2023

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

Re: ABS Lab Analytical Work Order: 611426

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 17, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage.

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.

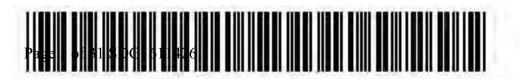
Sincerely,

Julie Robinson Project Manager

Indie Robinson

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 611426 GEL Work Order: 611426

#### 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 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

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

Certificate of Analysis

Report Date: February 24, 2023

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: AF56397
Sample ID: 611426001
Matrix: Ground Water
Collect Date: 16-FEB-23 10:53
Receive Date: 17-FEB-23

Collector:

Client

Client ID: SOOP001

Analyst Comments

Project:

SOOP00119

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	s Received"									
Total Organic Carbon Averag	e J	0.639	0.330	1.00	mg/L		1	TSM	02/21/23	1803 2386521	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Ni	trate/Nitrite '	'As Received'	•								
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1059 2387499	2
Spectrometric Analysis											
SM 4500-S(2-) D Sulfic	le "As Receiv	/ed"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1110 2386621	3
Titration and Ion Analys	sis										
SM 2320B Total Alkalii	nity "As Reco	eived"									
Alkalinity, Total as CaCO3	-	91.2	1.45	4.00	mg/L			MS3	02/23/23	1738 2388218	4
Bicarbonate alkalinity (CaCO	3)	91.2	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytic	al Methods v	vere performe	d:								

 Method
 Description

 1
 SM 5310 B

 2
 EPA 353.2 Low Level

 3
 SM 4500-S (2-) D

 4
 SM 2320B

#### **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

Page 3 of 31 SDG: 611426

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Certificate of Analysis

Report Date: February 24, 2023

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: AF56397

Sample ID:

611426002

Matrix: Collect Date: Ground Water 16-FEB-23 10:53

Receive Date: Collector:

17-FEB-23 Client

Parameter
-----------

Carbon Analysis SM 5310 B Dissolved Organic Carbon "As Received"

Qualifier

Description

Dissolved Organic Carbon Average

0.794

Result

0.330

1.00

RL

mg/L

TSM 02/24/23 1421 2387199

2386518

2386518

DF Analyst Date

SOOP00119

SOOP001

Time Batch Method

The following Prep Methods were performed:

Method	
EPA 160	

Laboratory Filtration - DOC

Analyst TSM **TSM** 

DL

Date 02/21/23 02/23/23

Units

Project:

Client ID:

PF

Time 0845 0848

Prep Batch

Laboratory Filtration - DOC EPA 160 The following Analytical Methods were performed:

Method

Description

**Analyst Comments** 

SM 5310 B

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

Page 4 of 31 SDG: 611426

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

Certificate of Analysis

Report Date: February 24, 2023

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Client

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56400
Sample ID: 611426003
Matrix: Ground Water
Collect Date: 16-FEB-23 12:55
Receive Date: 17-FEB-23

Collector:

Client ID: SOOP001

**Analyst Comments** 

Project:

SOOP00119

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	ic Carbon "A	As Received"									
Total Organic Carbon Average	;	6.12	0.330	1.00	mg/L		1	TSM	02/21/23	1824 2386521	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nit	trate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite		10.2	0.0700	0.200	mg/L		10	KLP1	02/22/23	1043 2387499	2
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1111 2386621	3
Titration and Ion Analys	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3		74.2	1.45	4.00	mg/L			MS3	02/23/23	1747 2388218	4
Bicarbonate alkalinity (CaCO3	3)	74.2	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	al Methods v	vere performed	:								

 Method
 Description

 1
 SM 5310 B

 2
 EPA 353.2 Low Level

 3
 SM 4500-S (2-) D

 4
 SM 2320B

#### **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

Page 5 of 31 SDG: 611426

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Certificate of Analysis

Report Date: February 24, 2023

Company: Address:

Santee Cooper P.O. Box 2946101

OCO<sub>3</sub>

Moncks Corner, South Carolina 29461

Contact: Project:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: AF56400 Sample ID:

611426004

Client

Matrix: Collect Date:

Receive Date:

Collector:

Ground Water 16-FEB-23 12:55 17-FEB-23

Project: Client ID: SOOP00119 SOOP001

Parameter

Qualifier Result

DLRL

Units

PF

DF Analyst Date

Time Batch Method

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average

0.330

1.00

mg/L

TSM 02/22/23 1659 2387199

The following Prep Methods were performed:

Description EPA 160 Laboratory Filtration - DOC

Analyst TSM

Date 02/21/23 Time 0845

**Analyst Comments** 

Prep Batch

2386518

The following Analytical Methods were performed:

Method Description

SM 5310 B

#### **Notes:**

Method

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

Page 6 of 31 SDG: 611426

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

Certificate of Analysis

Report Date: February 24, 2023

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: AF56442
Sample ID: 611426005
Matrix: Ground Water
Collect Date: 16-FEB-23 14:07
Receive Date: 17-FEB-23

Collector:

Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Orga	nic Carbon "A	As Received"									
Total Organic Carbon Avera	ige	15.9	0.330	1.00	mg/L		1	TSM	02/21/23	1906 2386521	1
Nutrient Analysis											
EPA 353.2 Nitrogen, N	Nitrate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1100 2387499	2
Spectrometric Analysis	S										
SM 4500-S(2-) D Sulfi	ide "As Recei	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1111 2386621	3
Titration and Ion Analy	ysis										
SM 2320B Total Alkal	linity "As Rec	eived"									
Alkalinity, Total as CaCO3		268	1.45	4.00	mg/L			MS3	02/23/23	1749 2388218	4
Bicarbonate alkalinity (CaCo	O3)	268	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO:	3) U	ND	1.45	4.00	mg/L						
The following Analyti	ical Methods v	were performed:									
Method	Description	<u> </u>			Analys	st Co	mment	S	<u> </u>		

Method	Description
1	SM 5310 B
2	EPA 353.2 Low Level
3	SM 4500-S (2-) D
4	SM 2320B

#### **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

Page 7 of 31 SDG: 611426

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

Certificate of Analysis

Project:

Client ID:

Report Date: February 24, 2023

SOOP00119

SOOP001

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: AF56442

Sample ID: Matrix:

611426006 Ground Water

Collect Date:

16-FEB-23 14:07 17-FEB-23

Receive Date: Collector:

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Da	ite	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissol	lved Organic Carbo	on "As Received"									
Dissolved Organic Car	bon Average	15.9	0.330	1.00	mg/L		1	TSM 02/22	2/23	1720 2387199	1
The following Pre	p Methods were pe	erformed:									
Method	Description	n		Analyst	Date		Time	Prep Ba	itch		
EPA 160	Laboratory F	iltration - DOC		TSM	02/21/23		0845	2386518			
The fellowing Am	برواد والمواكر الموالميان										

The following Analytical Methods were performed:

Method Description

**Analyst Comments** 

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

SQL: Sample Quantitation Limit MDC: Minimum Detectable Concentration

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

Certificate of Analysis

Report Date: February 24, 2023

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: AF56443
Sample ID: 611426007
Matrix: Ground Water
Collect Date: 16-FEB-23 14:12
Receive Date: 17-FEB-23

Collector:

Client

Client ID: SOOP001

**Analyst Comments** 

Project:

SOOP00119

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	ic Carbon "A	As Received"									
Total Organic Carbon Average	•	15.7	0.330	1.00	mg/L		1	TSM	02/21/23	2006 2386521	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nit	trate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1101 2387499	2
Spectrometric Analysis											
SM 4500-S(2-) D Sulfid	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1112 2386621	3
Titration and Ion Analys	is										
SM 2320B Total Alkalin	nity "As Rece	eived"									
Alkalinity, Total as CaCO3		271	1.45	4.00	mg/L			MS3	02/23/23	1750 2388218	4
Bicarbonate alkalinity (CaCO3	3)	271	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	Γhe following Analytical Methods were performed:										

 Method
 Description

 1
 SM 5310 B

 2
 EPA 353.2 Low Level

 3
 SM 4500-S (2-) D

 4
 SM 2320B

#### **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

Page 9 of 31 SDG: 611426

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

Certificate of Analysis

Project:

Client ID:

Report Date: February 24, 2023

SOOP00119

SOOP001

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: AF56443 Sample ID: 611426008 Matrix: Ground Water Collect Date: 16-FEB-23 14:12 Receive Date: 17-FEB-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch I	Method
Carbon Analysis									
SM 5310 B Dissol	ved Organic Carbo	on "As Received"							

Dissolved Organic Carbon Average 15.6 0.330 1.00 mg/L TSM 02/22/23 1800 2387199

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time EPA 160 Laboratory Filtration - DOC TSM 02/21/23 0845 2386518

The following Analytical Methods were performed:

Method Description **Analyst Comments** 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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Certificate of Analysis

Report Date: February 24, 2023

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: AF56395
Sample ID: 611426009
Matrix: Ground Water
Collect Date: 15-FEB-23 11:36
Receive Date: 17-FEB-23

Client

Client ID: SOOP001

**Analyst Comments** 

Project:

SOOP00119

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	s Received"										
Total Organic Carbon Average		3.49	0.330	1.00	mg/L		1	TSM	02/21/23	2026 2	2386521	1
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitr	rate/Nitrite '	'As Received"										
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1102 2	2387499	2
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	"As Receiv	ed"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1112 2	2386621	3
Titration and Ion Analysi	S											
SM 2320B Total Alkalin	ity "As Rece	eived"										
Alkalinity, Total as CaCO3		77.8	1.45	4.00	mg/L			MS3	02/23/23	1752 2	2388218	4
Bicarbonate alkalinity (CaCO3)	)	77.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

 Method
 Description

 1
 SM 5310 B

 2
 EPA 353.2 Low Level

 3
 SM 4500-S (2-) D

5 SM 4300-8 (2 4 SM 2320B

The following Analytical Methods were performed:

Collector:

**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

Page 11 of 31 SDG: 611426

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

Certificate of Analysis

Project:

Client ID:

Report Date: February 24, 2023

SOOP00119

SOOP001

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: AF56395
Sample ID: 611426010
Matrix: Ground Water
Collect Date: 15-FEB-23 11:36

Receive Date: 17-FEB-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Carbon Analysis									
CM 5210 D Diggoly	ad Onagania Carla	on II A a Dagairead	,						

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 3.45 0.330 1.00 mg/L 1 TSM 02/22/23 1821 2387199

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchEPA 160Laboratory Filtration - DOCTSM02/21/2308452386518

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

Page 12 of 31 SDG: 611426

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: February 24, 2023

SOOP00119

SOOP001

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: AF56396
Sample ID: 611426011
Matrix: Ground Water
Collect Date: 15-FEB-23 13:21
Receive Date: 17-FEB-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	As Received"									
Total Organic Carbon Average	e	6.69	0.330	1.00	mg/L		1	TSM	02/21/23	2046 238652	1 1
Nutrient Analysis EPA 353.2 Nitrogen, Ni	trate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	KLP1	02/22/23	1106 238749	9 2
Spectrometric Analysis											
SM 4500-S(2-) D Sulfid	le "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1113 238662	1 3
Titration and Ion Analys	sis										
SM 2320B Total Alkalin	nity "As Rec	eived"									
Alkalinity, Total as CaCO3		309	1.45	4.00	mg/L			MS3	02/23/23	1754 238821	8 4
Bicarbonate alkalinity (CaCO	3)	309	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytic	al Methods v	were performed:									

Method	Description
1	SM 5310 B
2	EPA 353.2 Low Level
3	SM 4500-S (2-) D
1	SM 2320B

#### **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

Page 13 of 31 SDG: 611426

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

Certificate of Analysis

Report Date: February 24, 2023

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: AF56396

Sample ID:

611426012

Matrix: Collect Date: Ground Water 15-FEB-23 13:21

Receive Date: Collector:

17-FEB-23 Client

Parameter
Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Qualifier

Dissolved Organic Carbon Average

Result

0.330

DL

1.00

RL

mg/L

Units

Project:

Client ID:

PF

TSM 02/22/23 1841 2387199

SOOP00119

SOOP001

Time Batch Method

The following Prep Methods were performed: Method Description

EPA 160 Laboratory Filtration - DOC

Analyst TSM

Date 02/21/23 Time 0845

**Analyst Comments** 

Prep Batch 2386518

DF Analyst Date

The following Analytical Methods were performed:

Method

Description

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

Page 14 of 31 SDG: 611426

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

Certificate of Analysis

Report Date: February 24, 2023

SOOP00119

Analyst Comments

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Client

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56394 Sample ID: 611426013 Matrix: Ground Water Collect Date: 14-FEB-23 12:33 Receive Date: 17-FEB-23

Project: Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average		1.30	0.330	1.00	mg/L		1	TSM	02/21/23	2106 2386521	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide "As Received"											
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1114 2386621	2
Titration and Ion Analys	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3	J	2.40	1.45	4.00	mg/L			MS3	02/23/23	1756 2388218	3
Bicarbonate alkalinity (CaCO3	) J	2.40	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	ıl Methods v	vere performed	1:								

Method Description SM 5310 B SM 4500-S (2-) D 2 SM 2320B

Collector:

#### **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

Project:

Client ID:

Report Date: February 24, 2023

SOOP00119

SOOP001

Company: Standards: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56394
Sample ID: 611426014
Matrix: Ground Water
Collect Date: 14-FEB-23 12:33
Receive Date: 17-FEB-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolv	ed Organic Carbo	on "As Received"								
Dissolved Organic Carbo	on Average	1.31	0.330	1.00	mg/L		1 TSM	02/22/23	1901 2387199	1

Dissolved Organic Carbon Average 1.31 0.330 1.00 mg/L 1 18M 02/22/23 1901 238/199

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchEPA 160Laboratory Filtration - DOCTSM02/21/2308452386518

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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Certificate of Analysis

Project:

Client ID:

Report Date: February 24, 2023

SOOP00119

SOOP001

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: AF56431
Sample ID: 611426015
Matrix: Ground Water
Collect Date: 14-FEB-23 13:51

Receive Date: 17-FEB-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	As Received"										
Total Organic Carbon Average	J	0.928	0.330	1.00	mg/L		1	TSM	02/21/23	2125	2386521	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1114	2386621	2
Titration and Ion Analysi	is											
SM 2320B Total Alkalin	ity "As Rece	eived"										
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			MS3	02/23/23	1757	2388218	3
Bicarbonate alkalinity (CaCO3	) U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	ıl Methods v	vere performed:										
Method	Description				1	Analys	st Co	mment	S			

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### **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

Project:

Client ID:

Report Date: February 24, 2023

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SOOP001

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: AF56431
Sample ID: 611426016
Matrix: Ground Water
Collect Date: 14-FEB-23 13:51
Receive Date: 17-FEB-23

Collector: Client

		Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolved C	rganic Carbo	on "As Received"								
Dissolved Organic Carbon Av	erage	1.01	0.330	1.00	mg/L		1	TSM 02/22/23	1922 2387199	1
The following Prep Met	hods were pe	erformed:								
Method	Description	1		Analyst	Date		Time	Prep Batch		
EPA 160	Laboratory Fil	ltration - DOC	,	TSM	02/21/23		0845	2386518		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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Certificate of Analysis

Report Date: February 24, 2023

SOOP00119

**Analyst Comments** 

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Client

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56432 Sample ID: 611426017 Matrix: Ground Water Collect Date: 14-FEB-23 15:22 Receive Date: 17-FEB-23

Project: Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	s Received"									
Total Organic Carbon Average		3.16	0.330	1.00	mg/L		1	TSM	02/21/23	2145 238652	1 1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ed"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/20/23	1115 238662	1 2
Titration and Ion Analysi	S										
SM 2320B Total Alkalin	ity "As Rece	eived"									
Alkalinity, Total as CaCO3	J	2.20	1.45	4.00	mg/L			MS3	02/23/23	1758 238821	8 3
Bicarbonate alkalinity (CaCO3	) J	2.20	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	l Methods w	vere performed:									

Method Description  $SM\ 5310\ B$ SM 4500-S (2-) D 2 SM 2320B

Collector:

#### **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: February 24, 2023

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: AF56432 Sample ID:

611426018

Matrix: Collect Date: Ground Water 14-FEB-23 15:22

Receive Date: Collector:

17-FEB-23 Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average

0.330

1.00

mg/L

Project:

Client ID:

TSM 02/22/23 1942 2387199

SOOP00119

SOOP001

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	02/21/23	0845	2386518

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 RL: Reporting Limit MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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QC Summary

Report Date: February 24, 2023

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OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 611426

Parmname	NOM	Sample Qual	QC	Units	RPD% REC	% Range Anls	t Date Time
Carbon Analysis Batch 2386521 ———							
QC1205325283 611426005 DUP Total Organic Carbon Average		15.9	15.8	mg/L	1.1	(0%-20%) TS	M 02/21/23 19:26
QC1205325282 LCS Total Organic Carbon Average	10.0		9.56	mg/L	95.6	(80%-120%)	02/21/23 15:46
QC1205325281 MB Total Organic Carbon Average		U	ND	mg/L			02/21/23 15:36
QC1205325285 611426005 PS Total Organic Carbon Average	10.0	15.9	24.0	mg/L	81.1	(65%-120%)	02/21/23 19:46
Batch 2387199 ——							
QC1205325262 611426002 DUP Dissolved Organic Carbon Average	J	0.794 J	0.777	mg/L	2.16 ^	(+/-1.00) TS	M 02/24/23 14:41
QC1205325261 FLTB Dissolved Organic Carbon Average		J	0.372	mg/L			02/24/23 14:10
Dissolved Organic Carbon Average		U	ND	mg/L			02/22/23 14:17
QC1205326621 LCS Dissolved Organic Carbon Average	10.0		9.58	mg/L	95.8	(80%-120%)	02/22/23 14:27
QC1205326620 MB Dissolved Organic Carbon Average		U	ND	mg/L			02/22/23 14:07
QC1205325263 611426002 PS Dissolved Organic Carbon Average	10.0 J	0.794	11.0	mg/L	102	(65%-120%)	02/24/23 15:01

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# **QC** Summary

Workorder: 611426 Page 2 of 4 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time **Nutrient Analysis** 2387499 Batch QC1205327254 611426009 DUP U ND U ND mg/L N/A KLP1 02/22/23 11:03 Nitrogen, Nitrate/Nitrite QC1205327253 LCS Nitrogen, Nitrate/Nitrite 1.00 0.943 mg/L 94.3 (90%-110%) 02/22/23 10:41 QC1205327252 MB U ND 02/22/23 10:40 Nitrogen, Nitrate/Nitrite mg/L QC1205327255 611426009 PS 1.00 U ND 1.23 123\* (90%-110%) 02/22/23 11:05 Nitrogen, Nitrate/Nitrite mg/L Spectrometric Analysis Batch QC1205325529 LCS 0.400 0.410 Total Sulfide mg/L 103 (85%-115%) HH2 02/20/23 11:08 QC1205325528 MBU Total Sulfide ND mg/L 02/20/23 11:08 QC1205325530 611426001 PS ND 0.374 Total Sulfide 0.400 U mg/L 93.5 (75%-125%) 02/20/23 11:10 QC1205325531 611426001 PSD Total Sulfide 0.400 U ND 0.386 02/20/23 11:11 mg/L 3.06 96.4 (0%-15%)Titration and Ion Analysis 2388218 QC1205328367 611426001 DUP Alkalinity, Total as CaCO3 91.2 92.2 mg/L 1.09 (0%-20%)MS3 02/23/23 17:40 Bicarbonate alkalinity (CaCO3) 91.2 92.2 mg/L 1.09 (0%-20%) Carbonate alkalinity (CaCO3) U ND U ND mg/L N/A

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# QC Summary

611426 Page 3 of 4 Parmname NOM Sample Qual **OC** Units RPD% REC% Range Anlst Date Time **Titration and Ion Analysis** Batch 2388218 QC1205328366 LCS 103 100 mg/L 103 MS3 02/23/23 17:36 Alkalinity, Total as CaCO3 (90%-110%) QC1205328368 611426001 MS 100 91.2 198 Alkalinity, Total as CaCO3 mg/L 107 (80%-120%) 02/23/23 17:44

#### Notes:

Workorder:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Н Analytical holding time was exceeded
- < Result is less than value reported
- Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- Λ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Ε General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- N1See case narrative
- 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.
- В The target analyte was detected in the associated blank.
- 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 e reporting purposes
- J See case narrative for an explanation

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# QC Summary

Page 4 of 4 Parmname NOM QC Units RPD% REC% Range Anlst Date Time

Sample Qual

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.

Workorder:

611426

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.

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<sup>^</sup> 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.

<sup>\*</sup> Indicates that a Quality Control parameter was not within specifications.

#### General Chemistry Technical Case Narrative Santee Cooper SDG #: 611426

<u>Product:</u> Carbon, Total Organic <u>Analytical Method:</u> SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

**Analytical Batch:** 2386521

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
611426013	AF56394
611426015	AF56431
611426017	AF56432
1205325281	Method Blank (MB)
1205325282	Laboratory Control Sample (LCS)
1205325283	611426005(AF56442) Sample Duplicate (DUP)
1205325285	611426005(AF56442) 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, Dissolved Organic Analytical Method:** SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

**Analytical Batch:** 2387199

**Filtration Method:** EPA 160

Filtration Procedure: GL-LB-E-034 REV# 4

Filtration Batch: 2386518

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

Client Sample Identification
AF56397
AF56400
AF56442
AF56443

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611426010	AF56395
611426012	AF56396
611426014	AF56394
611426016	AF56431
611426018	AF56432
1205325261	Filtration Blank (FLTB)
1205325262	611426002(AF56397) Sample Duplicate (DUP)
1205325263	611426002(AF56397) Post Spike (PS)
1205326620	Method Blank (MB)
1205326621	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**

#### Sample Re-analysis

Samples 1205325262 (AF56397DUP) and 611426002 (AF56397) were reanalyzed due to PS failure. The reanalysis data was reported.

Product: Nitrate/Nitrite Cad Redux Low Level Analytical Method: EPA 353.2 Low Level Analytical Procedure: GL-GC-E-128 REV# 11

**Analytical Batch:** 2387499

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
1205327252	Method Blank (MB)
1205327253	Laboratory Control Sample (LCS)
1205327254	611426009(AF56395) Sample Duplicate (DUP)
1205327255	611426009(AF56395) Post Spike (PS)

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**

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

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The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrogen, Nitrate/Nitrite	1205327255 (AF56395PS)	123* (90%-110%)

#### **Technical Information**

#### **Sample Dilutions**

The following sample 611426003 (AF56400) was diluted because target analyte concentrations exceeded the calibration range. The following samples 1205327254 (AF56395DUP), 1205327255 (AF56395PS), 611426001 (AF56397), 611426005 (AF56442), 611426007 (AF56443), 611426009 (AF56395) and 611426011 (AF56396) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

A a last -	611426									
Analyte	001	003	005	007	009	011				
Nitrogen, Nitrate/Nitrite	10X	10X	10X	10X	10X	10X				

**Product:** Sulfide, Total

Analytical Method: SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2386621

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
611426013	AF56394
611426015	AF56431
611426017	AF56432
1205325528	Method Blank (MB)
1205325529	Laboratory Control Sample (LCS)
1205325530	611426001(AF56397) Post Spike (PS)
1205325531	611426001(AF56397) Post Spike Duplicate (PSD)

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.

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**Product:** Alkalinity

**Analytical Method:** SM 2320B

**Analytical Procedure:** GL-GC-E-033 REV# 14

**Analytical Batch:** 2388218

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

<b>GEL Sample ID#</b>	Client Sample Identification
611426001	AF56397
611426003	AF56400
611426005	AF56442
611426007	AF56443
611426009	AF56395
611426011	AF56396
611426013	AF56394
611426015	AF56431
611426017	AF56432
1205328366	Laboratory Control Sample (LCS)
1205328367	611426001(AF56397) Sample Duplicate (DUP)
1205328368	611426001(AF56397) 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.

#### **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.

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GEL Contract Lab Info: \_

2 / 27 / 23 Send report to <a href="mailto:lcwillia@santeecooper.com">lcwillia@santeecooper.com</a> & <a href="mailto:sibrown@santeecooper.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrown.com">sibrown.com</a> & <a href="mailto:sibrown.co \_\_\_\_ Contract Lab Due Date (Lab Only):\_\_\_

# Chain of Custody



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TITSS

GOFER

Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175 Project/Task/Unit #: Date Results Needed by: Rerun request for any flagged QC LCWILLIA 125915 / JM02.09. GOI.1 / 36500 Yes No @santeecooper.com **Analysis Group** Labworks ID # Sample Location/ Comments Matrix(see below, Collection Time see Method # Description (Internal use Collecto (Glas BIGHKB, Total # of contain Preservative (: below) only) Reporting limit 0 Bottle type: (6/Plastic-P) SULFIDE Collection Grab (G) or Composite ( 224 Misc. sample info Sample Any other notes 大 ZDM PA \* 2 2/16/23 2 1053 6 GW \* SULFIDE HAS SHORT HOLD. WAP-4 AP56397 MDG G 1255 400 WAP-7 WLF- 42-6 \* PRESERVATIVES 1407 442 TOC HZSO4 443 WLF-AZ-6 DUP 1412 SULFIDE ZINC ACEPATE, NOOH RAD HNO3 ZDM 2/15/23 1136 <4°C AF 56395 WAP-2 ML 1321 96 WAP 3 2 2 2/14/23 1233 6 ALKAL-TOTAL BICARB, CARB AF56394 WAP-1 RAD - INCLUDE TOTAL CALCULATIO 431 WBW-1 1351 1522 432 WBW-AI-1 Sample Receiving (Internal Use Only) Time Received by: Employee # Date Time Relinquished by: Employee# Date TEMP (°C): Initial: 0950 2/17/23 0950 35594 2/17/23 GEL Symour Correct pH: Yes Relinquished by: Employee# Date Time Employee # Date Time Preservative Lot#: Relinquished by: Time Employee# Received by: Émployee # Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. Gypsum Coal Oil Flyash □ Ag □ Cu □ Sb Trans. Oil Qual. TOC ☐ Wallboard BTEX □ Ultimate ☐ Ammonia □ A1 □ Fe □ Se 3 %Moisture □ Napthalene Gypsum(all DOC □ % Moisture TLOI □ THM/HAA Color □ As  $\Box K$ □ Sn below) TP/TPO4 ☐ Ash ☐ % Carbon Acidity DVOC □ AIM □ NH3-N □ Sulfur ☐ Mineral □В □ Li □ Sr □ Oil & Grease Dielectric Strength □ TOC □ BTUs Analysis IFT □ E. Coli ☐ Total metals □ Ba □ Mg □ Ti 01 ☐ Volatile Matter ☐ Sieve Dissolved Gases ☐ Total Coliform ☐ Soluble Metals □ Be □ Mn □ T1 NO<sub>2</sub> □ CHN ☐ % Moisture Used Oil □pH ☐ Purity (CaSO4) Other Tests: ☐ Flashpoint Br ☐ Dissolved As □ % Moisture □ Ca  $\square V$ □ Mo Metals in oil ☐ Dissolved Fe ☐ XRF Scan NO3 □ Sulfites **NPDES** (As,Cd,Cr,Ni,Pb □ Rad 226 □HGI □ Cd □ Na □ Zn □рН SO4 Hg) □ Oil & Grease ☐ Rad 228 ☐ Chlorides ☐ Fineness □ Co □ Ni □Hg □ PCB ☐ Particulate Matter □ As TX ☐ Particle Size

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<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (SP)
Page 29 of 31 SDG: 611426 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

Sulfur

□Pb

□ CrVI

□ Cr

lient:	QCSS			gn/	SAMPLE RECEIPT & REVIEW FORM, )
`	ed By:MVH			T	te Received:
				,,,,	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Ca	rrier and Tracking Number			C	Wile 1-18°
Suspect	ed Hazard Information	Yes	ž	*If I	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipp	ed as a DOT Hazardous?		V	Haz	ard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
	he client designate the samples are to be as radioactive?		<b>V</b>	coc	C notation or radioactive stickers on containers equal client designation.
C) Did ti adioacti	he RSO classify the samples as ve?		<b>V</b>	Max	cimum Net Counts Observed* (Observed Counts - Area Background Counts): CPMY mR/Hr Classified as: Rad 1 Rad 2 Rad 3
Did t	he client designate samples are hazardous?		V	٠	C notation or hazard labels on containers equal client designation.
E) Did ti	ne RSO identify possible hazards?		V	If D	or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	ž	ž	Comments/Qualifiers (Required for Non-Conforming Items)
	pping containers received intact and led?	1			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
	nin of custody documents included h shipment?	<b>V</b>			Circle Applicable: Client contacted and provided COC COC created upon receipt
	nples requiring cold preservation hin $(0 \le 6 \text{ deg. C})$ ?*	<b>V</b>			Preservation Method: Wet Ice   Ice Packs   Dry Ice   None   Other:  *all temperatures are recorded in Celsius   TEMP:
	ily check performed and passed on IR perature gun?	٧			Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5 Sai	nple containers intact and sealed?	<b>V</b>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
	mples requiring chemical preservation proper pH?	<b>√</b>			Sample 4D's and Containers Affected:  If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer)  Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA  Sample ID's and containers affected:
8 Sai	nples received within holding time?	V	 		TD's and tests affected:
u ı	nple ID's on COC match ID's on tles?	V			ID's and containers affected:
	te & time on COC match date & time bottles?	V			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
nur	mber of containers received match mber indicated on COC?			<b>\</b>	Circle Applicable: No container count on COC Other (describe)
GE GE	e sample containers identifiable as LL provided by use of GEL labels? C form is properly signed in				Circle Applicable: Not relinquished Other (describe)
Įreli	nquished/received sections?  ats (Use Continuation Form if needed):	Ļ	55	L	

List of current GEL Certifications as of 24 February 2023

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	SC000122023-4						
New Hampshire NELAP	2054						
New Jersey NELAP	SC002						
New Mexico	SC002 SC00012						
New York NELAP	11501						
North Carolina	233						
North Carolina SDWA	45709						
North Dakota	R-158						
Oklahoma	2022-160						
Pennsylvania NELAP	68-00485						
Pennsylvania NELAP  Puerto Rico	SC00012						
S. Carolina Radiochem	10120002						
Sanitation Districts of L	9255651						
South Carolina Chemistry	10120001						
Tennessee Teves NEL A P	TN 02934						
Texas NELAP	T104704235-22-20						
Utah NELAP	SC000122022-37						
Vermont	VT87156						
Virginia NELAP	460202						
Washington	C780						





gel.com

March 16, 2023

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

Re: ABS Lab Analytical Work Order: 611428

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 17, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

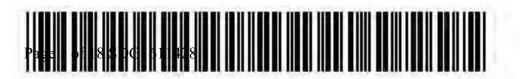
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 611428 GEL Work Order: 611428

#### 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

Page 2 of 18 SDG: 611428

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56397
Sample ID: 611428001
Matrix: Ground Water
Collect Date: 16-FEB-23 10:53

Receive Date: 17-FEB-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	1.13	+/-1.35	2.28	3.00	pCi/L		JE1	03/14/23	1216 2390110	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		1.80	+/-1.38			pCi/L		NXL1	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		0.677	+/-0.308	0.295	1.00	pCi/L		LXP1	03/16/23	1008 2390103	3
The following Analytic	al Methods w	ere perfo	ormed:								

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	•
2	Coloulation	

2 Calculation 3 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

78.7 (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

Page 3 of 18 SDG: 611428

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56400
Sample ID: 611428002
Matrix: Ground Water
Collect Date: 16-FEB-23 12:55

Receive Date: 17-FEB-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	3									
GFPC, Ra228, Liquid	"As Received"	'									
Radium-228	U	1.71	+/-1.23	1.92	3.00	pCi/L		JE1	03/14/23	1216 2390110	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		2.55	+/-1.28			pCi/L		NXL1	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Rece	ived"									
Radium-226		0.835	+/-0.332	0.350	1.00	pCi/L		LXP1	03/16/23	0935 2390103	3
TEL C 11 ' A 1 A	. 134.4 1	C	1								

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

Calculation
B EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

67.3 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56442 Sample ID: 611428003 Matrix: Ground Water Collect Date: 16-FEB-23 14:07 Receive Date:

17-FEB-23

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Dat	Time Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid "	As Received"									
Radium-228	U	1.77	+/-1.23	1.95	3.00	pCi/L		JE1 03/14/	3 1216 2390110	1
Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		1.98	+/-1.24			pCi/L		NXL1 03/16/	3 1404 2394229	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226	U	0.206	+/-0.173	0.225	1.00	pCi/L		LXP1 03/16/	3 0935 2390103	3
The following Analytic	cal Methods w	ere perfo	ormed:							
Method	Description					I	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer 88.2 GFPC, Ra228, Liquid "As Received" (15%-125%)

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

Column headers are defined as follows:

Collector:

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56443
Sample ID: 611428004
Matrix: Ground Water
Collect Date: 16-FEB-23 14:12
Receive Date: 17-FEB-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid ".	As Received'	1									
Radium-228	U	0.313	+/-0.845	1.53	3.00	pCi/L		JE1	03/14/23	1216 2390110	1
Radium-226+Radium-2	Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		0.644	+/-0.892			pCi/L		NXL1	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ived"									
Radium-226	U	0.331	+/-0.286	0.446	1.00	pCi/L		LXP1	03/16/23	1008 2390103	3

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1EPA 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 (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

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF56395 Sample ID: 611428005 Matrix: Ground Water Collect Date: 15-FEB-23 11:36 17-FEB-23

Receive Date: Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	PF DF Analyst Da		Time Batch	Method
Rad Gas Flow Proporti	ional Counting	5									
GFPC, Ra228, Liquid	"As Received"										
Radium-228		2.62	+/-1.33	1.88	3.00	pCi/L		JE1	03/14/23	1216 2390110	1
Radium-226+Radium-	228 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		3.15	+/-1.37			pCi/L		NXL1	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Lic	juid "As Recei	ved"									
Radium-226		0.531	+/-0.317	0.425	1.00	pCi/L		LXP1	03/16/23	1008 2390103	3
The following Analyti	cal Methods w	zere perfo	rmed:								

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	•
2	Calculation	
3	EPA 903.1 Modified	
C	D	D14 N1 D

Recovery% Surrogate/Tracer Recovery Result Nominal Acceptable Limits Test Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 69.4 (15%-125%)

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

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56396 Sample ID: 611428006 Matrix: Ground Water Collect Date: 15-FEB-23 13:21 17-FEB-23

Receive Date: Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	t Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.33	+/-0.985	1.53	3.00	pCi/L		JE1 0	03/14/23	1216 2390110	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		2.51	+/-1.06			pCi/L		NXL1 0	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.18	+/-0.396	0.298	1.00	pCi/L		LXP1 0	03/16/23	1008 2390103	3
The following Analytical Methods were performed:											

Method	Descrip	otion	Analyst Comments
			•

EPA 904.0/SW846 9320 Modified

Calculation EPA 903.1 Modified

Nominal Recovery% Acceptable Limits Surrogate/Tracer Recovery Test Result

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 78 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56394
Sample ID: 611428007
Matrix: Ground Water
Collect Date: 14-FEB-23 12:33

Receive Date: 17-FEB-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.40	+/-1.44	2.39	3.00	pCi/L		JE1	03/14/23	1216 2390110	1
Radium-226+Radium-2	Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		1.48	+/-1.44			pCi/L		NXL1	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226	U	0.0794	+/-0.137	0.254	1.00	pCi/L		LXP1	03/16/23	1008 2390103	3
The following Analytical Methods were performed:											

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	erv Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Result Nominal Recovery% Acceptable Limit Recovery% Test

70.8 (15%-125%)

#### Notes:

Method

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56431
Sample ID: 611428008
Matrix: Ground Water
Collect Date: 14-FEB-23 13:51

Receive Date: 17-FEB-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	t Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid "	'As Received"	1									
Radium-228	U	1.18	+/-0.939	1.47	3.00	pCi/L		JE1 0	03/14/23	1217 2390110	1
Radium-226+Radium-2	Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		1.84	+/-0.982			pCi/L		NXL1 0	03/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		0.668	+/-0.289	0.267	1.00	pCi/L		LXP1 0	03/16/23	1008 2390103	3
The following Analytic	cal Methods w	ere perfo	ormed:								

Method	Description	Analyst Comments
1	FPA 904 0/SW846 9320 Modified	<del>-</del>

1 EPA 904.0/SW846 9320 Modified 2 Calculation

2 Calculation 3 EPA 903.1 Modified

Surrogate/Tracer RecoveryTestResultNominalRecovery%Acceptable LimitsBarium-133 TracerGFPC, Ra228, Liquid "As Received"74.2(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

Page 10 of 18 SDG: 611428

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 16, 2023

SOOP00119

SOOP001

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: AF56432
Sample ID: 611428009
Matrix: Ground Water
Collect Date: 14-FEB-23 15:22

Receive Date: 17-FEB-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting	5									
GFPC, Ra228, Liquid "	'As Received'	Ì									
Radium-228		1.80	+/-1.13	1.70	3.00	pCi/L		JE1 03	/14/23	1217 2390110	1
Radium-226+Radium-2	Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		3.51	+/-1.24			pCi/L		NXL1 03	/16/23	1404 2394229	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		1.71	+/-0.498	0.477	1.00	pCi/L		LXP1 03	/16/23	1008 2390103	3
The following Analytic	cal Methods v	vere perfo	ormed:								

Method	Description	Analyst Comments
1	FPA 904 0/SW846 9320 Modified	•

2 Calculation

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 72 (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

EPA 903.1 Modified

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

QC Summary

Report Date: March 16, 2023

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

**Contact:** Ms. Jeanette Gilmetti

Workorder: 611428

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gas Flow Batch 2390110 ——									
QC1205331121 611428001 DUP Radium-228	U Uncertainty	1.13 +/-1.35	U	0.494 +/-0.911	pCi/L	N/A		N/A JE1	03/14/23 12:15
QC1205331122 LCS Radium-228	62.8 Uncertainty			64.6 +/-4.30	pCi/L		103	(75%-125%)	03/14/23 12:15
QC1205331120 MB Radium-228	Uncertainty		U	1.16 +/-1.36	pCi/L				03/14/23 12:15
<b>Rad Ra-226</b> Batch 2390103									
QC1205331090 611428001 DUP Radium-226	Uncertainty	0.677 +/-0.308		0.445 +/-0.291	pCi/L	41.4		(0% - 100%) LXP1	03/16/23 10:40
QC1205331092 LCS Radium-226	26.5 Uncertainty			23.0 +/-1.52	pCi/L		86.6	(75%-125%)	03/16/23 10:40
QC1205331089 MB Radium-226	Uncertainty		U	0.264 +/-0.216	pCi/L				03/16/23 10:08
QC1205331091 611428001 MS Radium-226	260 Uncertainty	0.677 +/-0.308		213 +/-9.99	pCi/L		81.6	(75%-125%)	03/16/23 10:40

#### Notes:

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 12 of 18 SDG: 611428

Page 1 of 2

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

# **QC** Summary

Workorder: 611428

Page 2 of 2

NOM Sample Ovel OC Units PRDS/ PECS/ Page Aplet Deta Time

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

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M If above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

Page 13 of 18 SDG: 611428

# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 611428

Product: GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2390110

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
611428001	AF56397
611428002	AF56400
611428003	AF56442
611428004	AF56443
611428005	AF56395
611428006	AF56396
611428007	AF56394
611428008	AF56431
611428009	AF56432
1205331120	Method Blank (MB)
1205331121	611428001(AF56397) Sample Duplicate (DUP)
1205331122	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:** 2390103

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

GEL Sample ID#	<b>Client Sample Identification</b>
611428001	AF56397
611428002	AF56400
611428003	AF56442
611428004	AF56443
611428005	AF56395
611428006	AF56396
611428007	AF56394

Page 14 of 18 SDG: 611428

611428008	AF56431
611428009	AF56432
1205331089	Method Blank (MB)
1205331090	611428001(AF56397) Sample Duplicate (DUP)
1205331091	611428001(AF56397) Matrix Spike (MS)
1205331092	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**

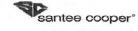
The matrix spike, 1205331091 (AF56397MS), aliquot was reduced to conserve sample volume.

#### **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.

Page 15 of 18 SDG: 611428

# **Chain of Custody**



Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA 125915 / JM02.09. GØ1.1 / 36500 @santeecooper.com

Received by:

☐ Rad 226

☐ Rad 228

□ PCB

Time

0950

Date

2/17/23

□ SO4

Yes (No)

Sample Receiving (Internal Use Only)

TEMP (°C):\_\_\_\_\_ Initial:

□ Oil & Grease

□ As

□ TSS

(As,Cd,Cr,Ni,Pb

Hg)

GOFER

											E	Analysis Group				
Labworks ID # (Internal use only)	Collection Date Collection Time Sample Collector Total # of containers  Bottle type: (Glass-G/Plastic-P) Grab (G) or Grap (G) or Composite (C) Matrix(see below)		Matrix(see below)	Preservative (see	Comments  Method # Reporting limit Misc. sample info Any other notes	Tac/Doc	ALK BIGHEB, GARB	SurFibE	8 th/ 100 and							
AP56397	WAP-4	2/16/23	1023	ZDM MDG	7	P4	G	GW	*	* SULFIDE HAS SHORTHOU	2	1	1	2		
400	WAP-7		1255			1			1		1		1	1		
442	WLF- 42-6		1407							* PRESERVATIVES						
1 443	WLF-A2-6 DUP	1	1412		_	1	1	1	1	TOC HZSO4 SULFIDE ZINC ACEINTE, NOOH	1		1	1		
AF 56395	WAP -2	2/15/23	1136	ZDM ML	1	1	1			RAD H1103 <4 °C	1		1			
96	WAP 3	1	1321	1	1	1	1	1	1		1	1				
AF56394	WAP-I	2/14/23	1233		6	1		1	1	ALKAL-TOTAL BICARB, CARB	2	1	1	2		
431	WBW-I		1351		1					RAD - INCLUDE TOTAL CALCULATION	14		1			
432	WBW-A1-1	1	1522	1	1	1		1	1		1		1			

Du	ished by:	61 2123 145 MH COLL		Employee #	Date Date Date	Time Time	Correct pH: Yes N Preservative Lot#:  Date/Time/Init for prese	rvative:		
		'ALS (all )	Nut	trients	MISC.	Gyps	um	Coal	Flyash	Oil
□ Ag	□ Cu	□Sb	□ TC	C	□ BTEX	☐ Wallboard Gypsum(all		Ultimate	☐ Ammonia	Trans. Oil Qual.
□ Al	□ Fe	□ Se	□ D(	OC	☐ Napthalene			☐ % Moistur	e 🗆 LOI	☐ %Moisture
□ As	□K	□ Sn	□ T₽	TPO4	□ THM/HAA	below)		□ Ash	□ % Carbon	□ Color
□В	□Li	□ Sr	□NI	13-N	□ VOC □ Oil & Grease	☐ AIM ☐ TOC		□ Sulfur	☐ Mineral	☐ Acidity ☐ Dielectric Strength
□ Ba	□Mg	□Ti			□ E. Coli	□ Total 1	TO SERVICE OF THE PARTY OF THE	☐ BTUs ☐ Volatile M	Analysis  [atter	□ IFT □ Dissolved Gases
□ Be	□Mn	□ T1		5000	☐ Total Coliform	□ Solubl	3/7/50 350 W 555	□ CHN	□ % Moisture	Used Oil
			□Br	2010	☐ pH ☐ Dissolved As	☐ Purity ☐ % Mo	C. Subtrate of the Party Co.	Other Tests:	E /0 Wioisture	Flashpoint
□ Ca	□Мо	$\Box V$			☐ Dissolved Fe	□ Sulfite	A PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED I	□ XRF Scan	NPDES	Metals in oil
0.01	D.M.	D7-	A23		□ Pod 226	D Duitte	100000000000000000000000000000000000000	DUCI	NPDES	(As Cd Cr Ni.P

□pH

□ Sulfur

☐ Chlorides

☐ Particle Size

Employee #

GEL

Date

417/23

Time

0950

□HGI

□ Fineness

☐ 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, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)
Page 16 of 18 SDG: 611428

□ Na

□ Ni

□Pb

Relinquished by:

Symoun

□ Cd

□Со

□ Cr

Employee#

 $\Box$  Zn

□Hg

□ CrVI

35594

No	SAMPLE RECEIPT & REVIEW FORM.  SDG/AR/COC/Work Order: O
4o	Date Received:  Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Ą.	FedEx Express FedEx Ground UPS Field Services Courier Other
Ę.	COOPER 2-6'C
<u>چ</u>	. 1 0 116 4 1 4 1 4 1
	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
1	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
<b>/</b>	COC notation or radioactive stickers on containers equal client designation.
/	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
V	COC notation or hazard labels on containers equal client designation.
V	f D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other;
ž	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 #: IR2-21 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? YesNoNA(If yes, take to VOA Freezer)  Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA  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: Not relinquished Other (describe)

List of current GEL Certifications as of 16 March 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 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
Vermont Virginia NELAP	460202
	C780
Washington	C/80





gel.com

March 14, 2023

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

Re: ABS Lab Analytical Work Order: 612999

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 612999 GEL Work Order: 612999

#### 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

Page 2 of 47 SDG: 612999

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

Certificate of Analysis

Report Date: March 14, 2023

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: AF56433 Sample ID: 612999001

Matrix: GW

Collect Date: 28-FEB-23 12:58
Receive Date: 03-MAR-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Organ	ic Carbon "A	As Received"								
Total Organic Carbon Averag	e	13.0	0.330	1.00	mg/L		1 TSM	03/11/23	0321 2394332	1
Spectrometric Analysis										
SM 4500-S(2-) D Sulfide "As Received"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/07/23	1510 2394295	2
Titration and Ion Analys	sis									
SM 2320B Total Alkalii	nity "As Rec	eived"								
Alkalinity, Total as CaCO3		322	2.42	6.67	mg/L		MS3	03/09/23	1341 2393625	3
Bicarbonate alkalinity (CaCO	3)	322	2.42	6.67	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	2.42	6.67	mg/L					
The following Analytic	al Methods v	vere performed:								
Method	Description				I	Analys	st Commen	ts		

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

#### **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

Page 3 of 47 SDG: 612999

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56433 Sample ID: 612999002

Matrix: GW

Collect Date: 28-FEB-23 12:58
Receive Date: 03-MAR-23
Collector: Client

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

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 12.4 0.330 1.00 mg/L 1 TSM 03/10/23 1641 2394833 1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/07/23	1150	2394325
TEST 0 11					

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

Page 4 of 47 SDG: 612999

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

# Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

Company: Santee Cooper P.O. Box 2946101 Address:

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56435 Sample ID: 612999003

Matrix: GW

Collect Date: 28-FEB-23 11:44 Receive Date: 03-MAR-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average		1.14	0.330	1.00	mg/L		1	TSM	03/11/23	0341 239433	2 1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1510 239429:	5 2
Titration and Ion Analysi	S										
SM 2320B Total Alkalin	ity "As Rece	eived"									
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			MS3	03/09/23	1351 239362:	5 3
Bicarbonate alkalinity (CaCO3)	) U	ND	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	l Methods v	vere performed:									

Method Description **Analyst Comments** SM 5310 B 2

SM 4500-S (2-) D

SM 2320B

# **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

Page 5 of 47 SDG: 612999

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56435 Sample ID: 612999004

Matrix: GW

Collect Date: 28-FEB-23 11:44
Receive Date: 03-MAR-23
Collector: Client

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

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 1.92 0.330 1.00 mg/L 1 TSM 03/10/23 1740 2394833 1

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchEPA 160Laboratory Filtration - DOCTSM03/07/2311502394325

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

# Certificate of Analysis

Project:

Client ID:

Analyst Comments

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56436 Sample ID: 612999005

Matrix: GW

Collect Date: 28-FEB-23 10:19
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	s Received"										
Total Organic Carbon Average		9.67	0.330	1.00	mg/L		1	TSM	03/11/23	0423	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1511	2394295	2
Titration and Ion Analys:	is											
SM 2320B Total Alkalin	ity "As Rece	eived"										
Alkalinity, Total as CaCO3		118	1.45	4.00	mg/L			MS3	03/09/23	1355	2393625	3
Bicarbonate alkalinity (CaCO3	)	118	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	l Methods v	vere performed:										

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56436 Sample ID: 612999006

Matrix: GW

Collect Date: 28-FEB-23 10:19
Receive Date: 03-MAR-23
Collector: Client

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

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 10.1 0.330 1.00 mg/L 1 TSM 03/10/23 1800 2394833 1

The following Prep Methods were performed:

EPA 160         Laboratory Filtration - DOC         TSM         03/07/23         1150         2394325	Method	Description	Analyst Date	Time	Prep Batch
	EPA 160	Laboratory Filtration - DOC	TSM 03/07/23	1150	2394325

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

Certificate of Analysis

Report Date: March 14, 2023

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: AF56437 Sample ID: 612999007

Matrix: GW

Collect Date: 28-FEB-23 10:24
Receive Date: 03-MAR-23
Collector: Client

 56437
 Project:
 SOOP00119

 999007
 Client ID:
 SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Carbon Analysis												
SM 5310 B Total Orga	anic Carbon "A	As Received"										
Total Organic Carbon Avera	age	10.2	0.330	1.00	mg/L		1	TSM	03/11/23	0443	2394332	1
Spectrometric Analysi	S											
SM 4500-S(2-) D Sulf	ide "As Recei	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1511	2394295	2
Titration and Ion Anal	ysis											
SM 2320B Total Alka	linity "As Rec	eived"										
Alkalinity, Total as CaCO3	-	126	1.45	4.00	mg/L			MS3	03/09/23	1358	2393625	3
Bicarbonate alkalinity (CaC	O3)	126	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO	3) U	ND	1.45	4.00	mg/L							
The following Analyt	ical Methods v	were performed:										
Method	Description	l			I	Analy	st Cor	nment	s			

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56437 Sample ID: 612999008

Matrix: GW

Collect Date: 28-FEB-23 10:24
Receive Date: 03-MAR-23
Collector: Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 10.5 0.330 1.00 mg/L 1 TSM 03/10/23 1820 2394833 1

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchEPA 160Laboratory Filtration - DOCTSM03/07/2311502394325

The following Analytical Methods were performed:

Method Description Analyst Comments

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

Certificate of Analysis

Project:

Client ID:

Analyst Comments

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56438 Sample ID: 612999009

Matrix: GW

Collect Date: 28-FEB-23 14:31
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	s Received"										
Total Organic Carbon Average		7.51	0.330	1.00	mg/L		1	TSM	03/11/23	0503	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1512	2394295	2
Titration and Ion Analysis	is											
SM 2320B Total Alkalin	ity "As Rece	eived"										
Alkalinity, Total as CaCO3	-	209	1.45	4.00	mg/L			MS3	03/09/23	1401	2393625	3
Bicarbonate alkalinity (CaCO3	)	209	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	ıl Methods v	vere performed	:									

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### **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: March 14, 2023

SOOP00119

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: AF56438 Sample ID: 612999010

Matrix: GW

Collect Date: 28-FEB-23 14:31
Receive Date: 03-MAR-23
Collector: Client

Client ID: SOOP001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolve	ed Organic Carbo	on "As Received"								
Dissolved Organic Carbo	n Average	7.98	0.330	1.00	mg/L		1	TSM 03/10/23	1840 2394833	1
The following Prep	Methods were pe									
Method	Description	1		Analyst	Date		Time	Prep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/07/23		1150	2394325		
The following Anal	The following Analytical Methods were performed:									

Method Description Analyst Comments

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56402 Sample ID: 612999011

Matrix: GW

Collect Date: 27-FEB-23 12:47 Receive Date: 03-MAR-23 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	s Received"										
Total Organic Carbon Average		15.3	0.330	1.00	mg/L		1	TSM	03/11/23	0523	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	"As Receiv	ed"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/06/23	1808	2394245	2
Titration and Ion Analysi	S											
SM 2320B Total Alkalini	ity "As Rece	eived"										
Alkalinity, Total as CaCO3		208	1.45	4.00	mg/L			MS3	03/09/23	1404	2393625	3
Bicarbonate alkalinity (CaCO3)	)	208	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

Method Description Analyst Comments

SM 5310 B SM 4500-S (2-) D 2 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF56402 Sample ID: 612999012

Matrix: GW

Collect Date: 27-FEB-23 12:47 Receive Date: 03-MAR-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch M	Iethod
Carbon Analysis									

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 15.8 0.330 1.00 mg/L TSM 03/10/23 1923 2394833

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time EPA 160 Laboratory Filtration - DOC TSM 03/07/23 1150 2394325

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

Certificate of Analysis

Report Date: March 14, 2023

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: AF56403 Sample ID: 612999013

Matrix: GW

Collect Date: 27-FEB-23 09:57
Receive Date: 03-MAR-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Orga	nic Carbon " <i>A</i>	As Received"								
Total Organic Carbon Averag	ge	1.81	0.330	1.00	mg/L		1 TSM	03/11/23	0543 2394332	1
Spectrometric Analysis	1									
SM 4500-S(2-) D Sulfi	de "As Receiv	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/06/23	1808 2394245	2
Titration and Ion Analy	vsis									
SM 2320B Total Alkal	inity "As Rec	eived"								
Alkalinity, Total as CaCO3	-	227	1.45	4.00	mg/L		MS3	03/09/23	1407 2393625	3
Bicarbonate alkalinity (CaCC	03)	227	1.45	4.00	mg/L					
Carbonate alkalinity (CaCO3	) U	ND	1.45	4.00	mg/L					
The following Analytic	cal Methods v	vere performed:								
Method	Description	l			I	Analys	st Comment	s		

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### **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: March 14, 2023

SOOP00119

SOOP001

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: AF56403 Sample ID: 612999014

Matrix: GW

Collect Date: 27-FEB-23 09:57
Receive Date: 03-MAR-23
Collector: Client

03-MAR-23

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolved C	Organic Carbo	n "As Received"								
Dissolved Organic Carbon Av	erage	2.08	0.330	1.00	mg/L		1	TSM 03/10/23	1942 2394833	1
The following Prep Mer	hods were pe	rformed:								
Method	Description			Analyst	Date		Time	Prep Batch		
EPA 160	Laboratory Fil	tration - DOC		TSM	03/07/23		1150	2394325		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 14, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56404 Sample ID: 612999015

Matrix: GW

Collect Date: 27-FEB-23 10:02
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	ic Carbon "A	s Received"									
Total Organic Carbon Average	;	1.79	0.330	1.00	mg/L		1	TSM	03/11/23	0605 2394332	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ed"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/06/23	1808 2394245	2
Titration and Ion Analys	is										
SM 2320B Total Alkalin	ity "As Rece	eived"									
Alkalinity, Total as CaCO3	-	232	1.45	4.00	mg/L			MS3	03/09/23	1410 2393625	3
Bicarbonate alkalinity (CaCO3	5)	232	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	al Methods w	vere performed:									

Method Description Analyst Comments

1 SM 5310 B 2 SM 4500-S (2-) D

3 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

1150

Report Date: March 14, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO<sub>3</sub>

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56404 Sample ID: 612999016

Matrix: GW

Collect Date: 27-FEB-23 10:02 Receive Date: 03-MAR-23 Collector: Client

Parameter DLRLUnits PF Qualifier Result DF Analyst Date Time Batch Method Carbon Analysis SM 5310 B Dissolved Organic Carbon "As Received" Dissolved Organic Carbon Average 2.36 0.330 1.00 mg/L TSM 03/10/23 2004 2394833 The following Prep Methods were performed: Method Date Prep Batch Description Analyst Time 03/07/23 2394325

TSM

EPA 160 Laboratory Filtration - DOC The following Analytical Methods were performed:

Method Description **Analyst Comments** 

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

Certificate of Analysis

Report Date: March 14, 2023

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: AF56434 Sample ID: 612999017

Matrix: GW

Collect Date: 27-FEB-23 15:44
Receive Date: 03-MAR-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Org	ganic Carbon "A	As Received"								
Total Organic Carbon Aver	rage	1.41	0.330	1.00	mg/L		1 TSM	03/11/23	0627 2394332	1
Spectrometric Analys	is									
SM 4500-S(2-) D Sul	fide "As Recei	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/06/23	1808 2394245	2
Titration and Ion Ana	lysis									
SM 2320B Total Alka	alinity "As Rec	eived"								
Alkalinity, Total as CaCO3	3	8.00	1.45	4.00	mg/L		MS3	03/09/23	1416 2393625	3
Bicarbonate alkalinity (Ca	CO3)	8.00	1.45	4.00	mg/L					
Carbonate alkalinity (CaCo	D3) U	ND	1.45	4.00	mg/L					
The following Analy	tical Methods v	were performed:								
Method	Description	ı			1	Analys	st Comments	s		

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56434 Sample ID: 612999018

Matrix: GW

Collect Date: 27-FEB-23 15:44
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolved	l Organic Carbo	on "As Received"									
Dissolved Organic Carbon	Average	2.30	0.330	1.00	mg/L		1	TSM	03/10/23	2026 2394833	1
The following Prep M	lethods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pi	rep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/07/23		1150	23	394325		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 14, 2023

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: AF56414 Sample ID: 612999019

Matrix: GW

Collect Date: 02-MAR-23 12:46
Receive Date: 03-MAR-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Orga	anic Carbon "A	As Received"								
Total Organic Carbon Avera	age	2.07	0.330	1.00	mg/L		1 TSM	03/11/23	0646 2394332	1
Spectrometric Analysi	S									
SM 4500-S(2-) D Sulf	ide "As Recei	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/07/23	1513 2394295	2
Titration and Ion Anal	ysis									
SM 2320B Total Alka	linity "As Rec	eived"								
Alkalinity, Total as CaCO3	-	75.0	1.45	4.00	mg/L		MS3	03/09/23	1418 2393625	3
Bicarbonate alkalinity (CaC	O3)	75.0	1.45	4.00	mg/L					
Carbonate alkalinity (CaCO	3) U	ND	1.45	4.00	mg/L					
The following Analyt	ical Methods v	were performed:								
Method	Description	1			1	Analys	st Comment	s		

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56414 Sample ID: 612999020

Matrix: GW

Collect Date: 02-MAR-23 12:46 Receive Date: 03-MAR-23 Client Collector:

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	PF DF	Analyst Date	Time Batch	Method
Carbon Analysis									
SM 5310 B Dissolve	ed Organic Carbo	on "As Received"							
Dissolved Organic Carbon	n Average	1.48	0.330	1.00	mg/L	1	RM3 03/14/23	1542 2394833	1
The following Prep I	Methods were pe	erformed:							
Method	Description	1	1	Analyst	Date	Tim	e Prep Batch		
EPA 160	Laboratory Fi	ltration - DOC	-	ΓSM	03/13/23	0830	2394325		
EPA 160	Laboratory Fi	ltration - DOC	-	ΓSM	03/07/23	1150	2394325		
The following Analy	ytical Methods v	vere performed:							
Method	Description				A	nalyst Co	mments		

# **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

SM 5310 B

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56423 Sample ID: 612999021

Matrix: GW

Collect Date: 02-MAR-23 09:52
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average		3.29	0.330	1.00	mg/L		1	TSM	03/11/23	0814 239433	2 1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1513 239429	5 2
Titration and Ion Analysi	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3		280	2.42	6.67	mg/L			MS3	03/09/23	1424 239362	5 3
Bicarbonate alkalinity (CaCO3)	)	280	2.42	6.67	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.42	6.67	mg/L						
The following Analytica	l Methods v	vere performed:									

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Report Date: March 14, 2023

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: AF56423 Sample ID: 612999022

Matrix: GW

Collect Date: 02-MAR-23 09:52
Receive Date: 03-MAR-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF A	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolve	ed Organic Carbo	on "As Received"								
Dissolved Organic Carbo	on Average	3.83	0.330	1.00	mg/L		1 7	ΓSM 03/10/23	2153 2394833	1
The following Prep	Methods were pe	erformed:								
Method	Description	1		Analyst	Date	,	Time	Prep Batch		
EPA 160	Laboratory Fi	ltration - DOC		ΓSM	03/07/23		1150	2394325		
The following Anal	lytical Methods v	vere performed:								

Method Description Analyst Comments

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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Certificate of Analysis

Report Date: March 14, 2023

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: AF56428 Sample ID: 612999023

Matrix: GW

Collect Date: 02-MAR-23 10:56 Receive Date: 03-MAR-23 Client Collector:

SOOP00119 Project: Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Org	ganic Carbon " <i>A</i>	As Received"								
Total Organic Carbon Ave	erage	11.1	0.330	1.00	mg/L		1 TSM	03/11/23	0835 2394332	1
Spectrometric Analys	sis									
SM 4500-S(2-) D Sul	lfide "As Receiv	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/07/23	1514 2394295	2
Titration and Ion Ana	alysis									
SM 2320B Total Alk	alinity "As Rec	eived"								
Alkalinity, Total as CaCO	3	190	1.45	4.00	mg/L		MS3	03/09/23	1428 2393625	3
Bicarbonate alkalinity (Ca-	CO3)	190	1.45	4.00	mg/L					
Carbonate alkalinity (CaC	O3) U	ND	1.45	4.00	mg/L					
The following Analy	tical Methods v	were performed:								
Method	Description	1			I	Analys	st Commen	ts		

 $SM\ 5310\ B$ SM 4500-S (2-) D 2 SM 2320B

#### **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

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO<sub>3</sub>

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56428 Sample ID: 612999024

Matrix: GW

Collect Date: 02-MAR-23 10:56 Receive Date: 03-MAR-23 Collector: Client

Parameter DLRLUnits PF Qualifier Result DF Analyst Date Time Batch Method Carbon Analysis SM 5310 B Dissolved Organic Carbon "As Received" 1.00 TSM 03/10/23 2214 2394833

Dissolved Organic Carbon Average 11.4

0.330 mg/L

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time EPA 160 Laboratory Filtration - DOC TSM 03/07/23 1150 2394325

The following Analytical Methods were performed:

Method Description **Analyst Comments** 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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Certificate of Analysis

Report Date: March 14, 2023

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: AF56421 Sample ID: 612999025

Matrix: GW

Collect Date: 01-MAR-23 14:41
Receive Date: 03-MAR-23
Collector: Client

F56421 Project: SOOP00119
2999025 Client ID: SOOP001

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	e	10.8	0.330	1.00	mg/L		1 TSM	03/11/23	0855 2394332	1	
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide "As Received"											
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/07/23	1514 2394295	2	
Titration and Ion Analys	sis										
SM 2320B Total Alkalinity "As Received"											
Alkalinity, Total as CaCO3		251	1.45	4.00	mg/L		MS3	03/09/23	1430 2393625	3	
Bicarbonate alkalinity (CaCO	3)	251	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytical Methods were performed:											
Method Description				Analyst Comments							

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### **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: March 14, 2023

Time Batch Method

SOOP00119

SOOP001

DF Analyst Date

Company: Santee Cooper Address: P.O. Box 2946101

OCO<sub>3</sub>

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56421 Sample ID: 612999026

Matrix: GW

Collect Date: 02-MAR-23 14:41
Receive Date: 03-MAR-23
Collector: Client

Qualifier

Result

RL

Project:

Units

Client ID:

PF

Carbon Analysis

Parameter

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 11.7 0.330 1.00 mg/L 1 TSM 03/10/23 2235 2394833 1

DL

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchEPA 160Laboratory Filtration - DOCTSM03/07/2311502394325

The following Analytical Methods were performed:

Method Description Analyst Comments

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

Certificate of Analysis

Report Date: March 14, 2023

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: AF56424 Sample ID: 612999027

Matrix: GW

Collect Date: 02-MAR-23 13:37
Receive Date: 03-MAR-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Org	anic Carbon "A	As Received"								
Total Organic Carbon Aver	age	2.24	0.330	1.00	mg/L		1 TSM	03/11/23	0914 2394332	1
Spectrometric Analysis	is									
SM 4500-S(2-) D Sulf	fide "As Recei	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/07/23	1514 2394295	2
Titration and Ion Anal	lysis									
SM 2320B Total Alka	linity "As Rec	eived"								
Alkalinity, Total as CaCO3	•	277	1.45	4.00	mg/L		MS3	03/09/23	1432 2393625	3
Bicarbonate alkalinity (CaC	CO3)	277	1.45	4.00	mg/L					
Carbonate alkalinity (CaCC	03) U	ND	1.45	4.00	mg/L					
The following Analyt	ical Methods v	were performed:								
Method	Description	1			I	Analys	st Comment	s		

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56424 Sample ID: 612999028

Matrix: GW

Collect Date: 02-MAR-23 13:37
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolve	d Organic Carbo	on "As Received"									
Dissolved Organic Carbon	n Average	2.90	0.330	1.00	mg/L		1	TSM	03/10/23	2317 2394833	1
The following Prep N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/07/23		1150	23	94325		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 5310 B

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56439 Sample ID: 612999029

Matrix: GW

Collect Date: 02-MAR-23 10:22
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Ba	tch Meth	ıod
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	s Received"										
Total Organic Carbon Average		5.31	0.330	1.00	mg/L		1	TSM	03/11/23	0934 2394	1332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Receiv	/ed"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1516 2394	1295	2
Titration and Ion Analysi	is											
SM 2320B Total Alkalin	ity "As Rece	eived"										
Alkalinity, Total as CaCO3	•	12.2	1.45	4.00	mg/L			MS3	03/09/23	1434 2393	3625	3
Bicarbonate alkalinity (CaCO3	)	12.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	ıl Methods v	vere performed:										

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56439 Sample ID: 612999030

Matrix: GW

Collect Date: 02-MAR-23 10:22
Receive Date: 03-MAR-23
Collector: Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 5.75 0.330 1.00 mg/L 1 TSM 03/10/23 2338 2394833 1

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchEPA 160Laboratory Filtration - DOCTSM03/07/2311502394325

The following Analytical Methods were performed:

Method Description Analyst Comments

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

Company: Santee Cooper P.O. Box 2946101 Address:

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56441 Sample ID: 612999031

Matrix: GW

Collect Date: 02-MAR-23 11:45 Receive Date: 03-MAR-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	ic Carbon "A	As Received"										
Total Organic Carbon Average	;	9.35	0.330	1.00	mg/L		1	TSM	03/11/23	0954	2394332	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Recei	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/07/23	1516	2394295	2
Titration and Ion Analys	is											
SM 2320B Total Alkalin	nity "As Rec	eived"										
Alkalinity, Total as CaCO3	•	62.8	1.45	4.00	mg/L			MS3	03/09/23	1438	2393625	3
Bicarbonate alkalinity (CaCO3	3)	62.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	al Methods v	were performed:										
Method	Description	l			1	Analys	st Co	mment	s			

Method Description  $SM\ 5310\ B$ SM 4500-S (2-) D 2 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 14, 2023

SOOP00119

SOOP001

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: AF56441 Sample ID: 612999032

Matrix: GW

Collect Date: 02-MAR-23 11:45 Receive Date: 03-MAR-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Carbon Analysis									
SM 5310 B Disso	lved Organic Carb	on "As Received"							

Dissolved Organic Carbon Average 10.2 0.330 1.00 mg/L TSM 03/10/23 2358 2394833

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time EPA 160 Laboratory Filtration - DOC TSM 03/07/23 1150 2394325

The following Analytical Methods were performed:

Method Description **Analyst Comments** 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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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 14, 2023

Page 1 of 4

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 612999

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range A	Anlst	Date Time
Carbon Analysis Batch 2394332									
QC1205338198 612999019 DUP Total Organic Carbon Average		2.07	2.05	mg/L	0.924 ^		(+/-1.00)	TSM	03/11/23 07:08
QC1205338197 LCS Total Organic Carbon Average	10.0		9.71	mg/L		97.1	(80%-120%)		03/11/23 00:50
QC1205338196 MB Total Organic Carbon Average		U	ND	mg/L					03/11/23 00:40
QC1205338200 612999019 PS Total Organic Carbon Average	10.0	2.07	11.1	mg/L		90.1	(65%-120%)		03/11/23 07:30
Batch 2394833 ——									
QC1205338176 612999002 DUP Dissolved Organic Carbon Average		12.4	12.0	mg/L	2.86		(0%-20%)	TSM	03/10/23 17:01
QC1205338177 612999020 DUP Dissolved Organic Carbon Average		1.48	1.43	mg/L	3.37 ^		(+/-1.00)	RM3	03/14/23 16:04
QC1205338175 FLTB Dissolved Organic Carbon Average		U	ND	mg/L					03/14/23 15:21
QC1205339108 LCS Dissolved Organic Carbon Average	10.0		10.1	mg/L		101	(80%-120%)	TSM	03/10/23 16:28
QC1205339107 MB Dissolved Organic Carbon Average		U	ND	mg/L					03/10/23 16:09
QC1205338178 612999002 PS Dissolved Organic Carbon Average	10.0	12.4	21.2	mg/L		88.2	(65%-120%)		03/10/23 17:20

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# QC Summary

612999 Page 2 of 4 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Carbon Analysis 2394833 Batch QC1205338179 612999020 PS 1.48 95.9 RM3 03/14/23 16:26 Dissolved Organic Carbon Average 10.0 11.1 mg/L (65%-120%) Spectrometric Analysis Batch 2394245 QC1205338011 LCS 0.404 Total Sulfide 0.400 101 (85%-115%) HH2 03/06/23 18:08 mg/L QC1205338010 MB Total Sulfide U ND mg/L 03/06/23 18:07 QC1205338012 612999011 PS 0.400 U ND 0.241 59.3 \* (75%-125%) Total Sulfide mg/L 03/06/23 18:08 QC1205338013 612999011 PSD Total Sulfide 0.400 U ND 0.246 60.4\* (0%-15%) 03/06/23 18:08 mg/L 1.8 Batch 2394295 QC1205338101 LCS Total Sulfide 0.400 0.403 mg/L 101 (85%-115%) HH2 03/07/23 15:09 QC1205338100 MBU ND 03/07/23 15:09 Total Sulfide mg/L QC1205338104 612999027 PS ND Total Sulfide 0.400 U 0.102 mg/L 25.2\* (75%-125%) 03/07/23 15:15 QC1205338105 612999027 PSD ND 0.400 U 0.104 25.8\* 03/07/23 15:15 Total Sulfide mg/L 2.38 (0%-15%)Titration and Ion Analysis 2393625 QC1205336863 612999001 DUP Alkalinity, Total as CaCO3 322 327 mg/L 1.44 (0%-20%)MS3 03/09/23 13:46

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Workorder:

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

# **QC** Summary

Workorder: 612999 Page 3 of 4 **Parmname** NOM Sample Qual **OC** Units RPD% REC% Range Anlst Date Time Titration and Ion Analysis Batch 2393625 Bicarbonate alkalinity (CaCO3) 322 327 mg/L 1.44 (0%-20%)MS3 03/09/23 13:46 U Carbonate alkalinity (CaCO3) ND U ND mg/L N/A QC1205336865 612999021 DUP 280 279 03/09/23 14:25 (0%-20%) Alkalinity, Total as CaCO3 mg/L 0.357 Bicarbonate alkalinity (CaCO3) 280 279 mg/L 0.357 (0%-20%)Carbonate alkalinity (CaCO3) U ND U ND N/A mg/L QC1205336862 LCS 100 105 105 03/09/23 13:35 Alkalinity, Total as CaCO3 (90%-110%) mg/L QC1205336864 612999001 MS Alkalinity, Total as CaCO3 167 322 495 mg/L 104 (80%-120%) 03/09/23 13:48 QC1205336866 612999021 MS

451

mg/L

103

(80%-120%)

03/09/23 14:26

#### Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

167

J Value is estimated

Alkalinity, Total as CaCO3

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

280

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## QC Summary

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Parmname	NOM	Sample Qu	ual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

- N/A RPD or %Recovery limits do not apply.
- Analyte concentration is not detected above the detection limit ND
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Ε General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- N1 See case narrative

Workorder:

- 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 R purposes.
- В The target analyte was detected in the associated blank.
- 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
- See case narrative for an explanation

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.

Page 38 of 47 SDG: 612999

#### General Chemistry Technical Case Narrative Santee Cooper SDG #: 612999

**Product: Carbon, Total Organic Analytical Method:** SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

**Analytical Batch:** 2394332

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

<b>GEL Sample ID#</b>	Client Sample Identification
612999001	AF56433
612999003	AF56435
612999005	AF56436
612999007	AF56437
612999009	AF56438
612999011	AF56402
612999013	AF56403
612999015	AF56404
612999017	AF56434
612999019	AF56414
612999021	AF56423
612999023	AF56428
612999025	AF56421
612999027	AF56424
612999029	AF56439
612999031	AF56441
1205338196	Method Blank (MB)
1205338197	Laboratory Control Sample (LCS)
1205338198	612999019(AF56414) Sample Duplicate (DUP)
1205338200	612999019(AF56414) 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, Dissolved Organic Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

**Analytical Batch:** 2394833

**Filtration Method:** EPA 160

Filtration Procedure: GL-LB-E-034 REV# 4

Filtration Batch: 2394325

Page 39 of 47 SDG: 612999

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
612999002	AF56433
612999004	AF56435
612999006	AF56436
612999008	AF56437
612999010	AF56438
612999012	AF56402
612999014	AF56403
612999016	AF56404
612999018	AF56434
612999020	AF56414
612999022	AF56423
612999024	AF56428
612999026	AF56421
612999028	AF56424
612999030	AF56439
612999032	AF56441
1205338175	Filtration Blank (FLTB)
1205338176	612999002(AF56433) Sample Duplicate (DUP)
1205338177	612999020(AF56414) Sample Duplicate (DUP)
1205338178	612999002(AF56433) Post Spike (PS)
1205338179	612999020(AF56414) Post Spike (PS)
1205339107	Method Blank (MB)
1205339108	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**

#### Sample Re-analysis

Samples 1205338177 (AF56414DUP), 1205338179 (AF56414PS) and 612999020 (AF56414) were reanalyzed due to PS failure. The reanalysis data was reported. Sample was re-analyzed to verify the result. The reanalysis data with passing instrument QC was reported. 1205338175 (FLTB).

**Product:** Sulfide, Total

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2394245

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

GEL Sample ID#	Client Sample Identification
612999011	AF56402
612999013	AF56403
612999015	AF56404
612999017	AF56434
1205338010	Method Blank (MB)

1205338011	Laboratory Control Sample (LCS)
1205338012	612999011(AF56402) Post Spike (PS)
1205338013	612999011(AF56402) Post Spike Duplicate (PSD)

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**

#### Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205338012 (AF56402PS)	59.3* (75%-125%)
	1205338013 (AF56402PSD)	60.4* (75%-125%)

**Product:** Sulfide, Total

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2394295

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
612999001	AF56433
612999003	AF56435
612999005	AF56436
612999007	AF56437
612999009	AF56438
612999019	AF56414
612999021	AF56423
612999023	AF56428
612999025	AF56421
612999027	AF56424
612999029	AF56439
612999031	AF56441
1205338100	Method Blank (MB)
1205338101	Laboratory Control Sample (LCS)
1205338104	612999027(AF56424) Post Spike (PS)
1205338105	612999027(AF56424) Post Spike Duplicate (PSD)

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**

#### Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205338104 (AF56424PS)	25.2* (75%-125%)
	1205338105 (AF56424PSD)	25.8* (75%-125%)

**Product:** Alkalinity

**Analytical Method:** SM 2320B

**Analytical Procedure:** GL-GC-E-033 REV# 14

**Analytical Batch:** 2393625

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

<b>GEL Sample ID#</b>	Client Sample Identification
612999001	AF56433
612999003	AF56435
612999005	AF56436
612999007	AF56437
612999009	AF56438
612999011	AF56402
612999013	AF56403
612999015	AF56404
612999017	AF56434
612999019	AF56414
612999021	AF56423
612999023	AF56428
612999025	AF56421
612999027	AF56424
612999029	AF56439
612999031	AF56441
1205336862	Laboratory Control Sample (LCS)
1205336863	612999001(AF56433) Sample Duplicate (DUP)
1205336864	612999001(AF56433) Matrix Spike (MS)
1205336865	612999021(AF56423) Sample Duplicate (DUP)
1205336866	612999021(AF56423) Matrix Spike (MS)

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

Page 42 of 47 SDG: 612999

#### **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.

Page 43 of 47 SDG: 612999

Contract Lab Info: \_

Contract Lab Due Date (Lab Only):

612999 / 613005

Send report to <a href="mailto:lcwillia@santeecooper.com">lcwillia@santeecooper.com</a> & <a href="mailto:sibrown@santeecooper.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrown.com">sibrown.com</a> & <a hr

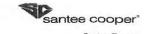
# **Chain of Custody**



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

Custome	er Email,	/Report Recipie	ent:	Date R	esults Ne	eded b	y:		Pr	oject/	Task/	Unit #:		Rerun request	for ar	ıy fla	ggeo	I QC
LCWI	LLIA	@santeec	ooper.com					125	715	/ JM	02.0	1.109.PC	3650	Yes Yes	NO			
															A	nalys	s Grou	<u>up</u>
Labwork (Internal only)		Sample Locatio Description	n/	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	Metl     Repo     Misc     Any	Comm nod # orting limit orting sample in other notes	fo	ALKARINITY	Suchbe	TOC/POC	RAP 226/228
AFS	6433	WLF -AI-	- )	2/23/23	1258	ZDM	6	Pla	G	GW	本	* 500	SULFIDE HAS SHOTT HOLD			1	2	2
	35	WLF - AI -	3	1	1144	1	H	11	1	1	1				1	1	1	+
				+ + -		$\vdash$	+	++			H	1			+	$\dagger$	H	H
	36	WLF-AI-	4	$\vdash$	1019		H	+		+	-	TOC- H	SERVAT	IVES	+	+	+	1
	37	WLF-AI-	4-D		1024									ACETATE, NOUTH				
	38	WLF-AI-	5		1431	1	1		1	1		RAD-H	103					
AF 56		WAP-9		2/21/28	1247	ZDM	1	1	1	(	T				П	T		T
1	03	WAP-10		1	0957	1	$\parallel$	$\Box$			T	ALK - T	TOTAL ST	ICARB, CARB			IT	$\parallel$
-							T	+	+		H		11.92	1011107	T	$\parallel$	H	+
+	434	WAP-10D			1544		+		+	$\dagger$	H	DOC-NO	T FIELL	FUERED	1	Ţ	$\parallel$	+
<u> </u>	727	WLF-AI-	<del></del>	-	1247	-	-	-		-					Ī			-
Relinq	uished by:	Employee#	Date	Time	Receiv	red by:		Employee	#	Date	e	Time		Receiving (Internal	Use Oi Initia			
89m	15 len	35594	3/3/23	QUA	1	11	(	SEL	1	3/3/2	23	Darto		pH: Yes No				-
Relinq	uished by:	Employee#	Date	Time	Récei	red by:		Employee	#	Date		Time		ative Lot#:				
Du	1	GEL	3-3123	1950 Stiffe	1/	L)	4	oll	()	309	1	500	rieserv	auve Loin:				
Relinq	uished by:	Employee#	Date	Ville	Receiv	red by:		Employee	#	Date	e	Time	Date/Ti	me/Init for preserv	ative:			
		ETALS (all )	Nint	rients	MI	22		Gy	psur	70		Coal		Flyash		0	il	
□Ag	□ Ci	u □ Sb	D TO		□ BTEX	<u>sc.</u>		□ Wallbo	NAME OF TAXABLE PARTY.			Ultimate		☐ Ammonia		ans. C	il Qu	
□ A1	□Fe		□ DO		□ Naphtha		614	Gyp belo	osum(a	ıll	7	☐ % Moist ☐ Ash	ture	□ LOI □ % Carbon		%Mo	sture	
□В	□ Li	CO. SELDING BOYERS SEED	□ NH	DESCRIPTION OF THE PARTY OF THE	□ VOC □ Oil & G			D A	IM			□ Sulfur		☐ Mineral		Acidit	ic Street	ngth
□ Ba	□М				□ E. Coli			□ To	tal meta			☐ BTUs ☐ Volatile	Matter	Analysis  ☐ Sieve	711	FT	ved G	
□ Be	□М	n 🗆 Tl	□NO	DESCRIPTION !	□ Total Co	onform	1		luble M rity (Ca		14	□ CHN		□ % Moisture	Us	ed O	il	1136.5
□ Ca	□М	o 🗆 V		60035632899999	☐ Dissolve			□%	Moistu		1000	Other Tests:  XRF Scan		NIDDEC		lashp	oint in oil	
□ Cd	□Na	a 🗆 Zn			□ Rad 226		18	□рН			E	HGI		NPDES  Oil & Grease		(As,C	d,Cr.N	
□Со	□Ni	i □ Hg			□ Rad 228 □ PCB				ilorides rticle Si			Fineness Particulate M	atter	□As		Hg)		
□ Cr	□Pt	□ CrVI						□ Sulfur		1461		STATE OF THE STATE		□TSS	□ GC	DFER		

# **Chain of Custody**



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

Customer Em	nail/Rep	port Recipie	nt:	Date	Results N	eeded b	y:		Pr	oject/	Task/l	Jnit #:	Rerun request f	or ar	y fla	gged	QC
LCWILLIA		_@santeeco	ooper.com		J			125	915	J 57V	102.0	09.601.1/3650	<u> </u>	No			
														A	nalysi	s Grou	ID.
Labworks ID # (Internal use only)	91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mple Location	o/	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	Comm  Method # Reporting limit Misc. sample in Any other notes	fo	ALICALINITY	SULFIPE	TOC/DOC	RAD 226/228
AF56411	4 4	AP-15		3/2/2	3 1246	ZDM	6	P/G	G	GW	*	* SULFIDE H	AS SHORT HOLD	1	Ţ	2	2
1 23	3 W	rAP-23			0952				1	1					1	1	
25		VAP - 27			1056	. 1	1	I	I	1	1	* PRESERVAT	IVES				
AF5642	_	JA-P-21		3/1/2	3 1441	1	1	1	1	1	1	TOC- H2504 SULFIDE - ZINC	ACETATE NGOH				
	4	1 24		1	133		IT	$\dagger \uparrow$				RAD-HNO3			T		
3					1022		$\dagger \uparrow$		T		T				$\dagger$	T	П
1 4		LF-A2-2		11	1145		1	1	1	1	1	ALKAL- TOTAL,	BICARB CARB	1	1		1
		-										-,,-					П
												DOC-WOT FIELD	FILTERED				
												Sample	Receiving (Internal	Use O	n/v)		
Relinquished		Employee#	Date	Time	Rece	ived by:		Employe		Date			(°C):				_
Relinquished		35594- Employee#	3/3/23 Date	Time	Rece	ived by:		Employe		3/3/2 Date		Time Correct	t pH: Yes No				
Relinquished	l by:	AGC Employee#	3-3-2 3 Date	15 Julie	Rece	eived by:	10	Employee	e#	3.03 Date	33	Time Preserv	rative Lot#:				
												Date/Ti	me/Init for preserv	ative:			
☐ Ag ☐ Al ☐ As ☐ B ☐ Ba ☐ Ca ☐ Cd ☐ Co	META Cu Fe K Li Mg Mn Mo Na	ALS (all )	□ TO □ DC	OC /TPO4 13-N 02	□ BTEX □ Naphti □ THM/ □ VOC □ Oil & □ E. Col	halene HAA Grease i Coliform ved As ved Fe		□ Wallt Gy bell □ A □ T □ S □ P □ % □ S □ P	psum(a ow) AIM OC otal met oluble N urity (C & Moistu ulfites H Chlorides article S	all  als fetals aSO4) are	(	Coal Ultimate  % Moisture  Ash Sulfur BTUs Volatile Matter CHN Other Tests: XRF Scan HGI Fineness Particulate Matter	Flyash  Ammonia LOI % Carbon Mineral Analysis Sieve % Moisture  NPDES Oil & Grease As TSS		%Mo Color Acidit Dielectri IFT Dissol sed O Flashp Metal	oil Qui isture y ic Strer ved Gi il ooint s in oil d,Cr,N	ngth ases

			SAMPLE RECEIPT & REVIEW FORM	
Client: X 6 1			SDG/AR/COC/Work Order: 612999/613005	
Received By: MVH			Date Received Circle Applicable:	
Carrier and Tracking Number			FedEx Express FedEx Ground UPS Field Service Courier Other	
Suspected Hazard Information	Yes	ž	*If Not Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A)Shipped as a DOT Hazardous?		V	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes, No	
B) Did the client designate the samples are to be eccived as radioactive?		V	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as adioactive?		V	Maximum Net Counts Observed* (Observed Counts - Area Background Counts); CPMy mR/Hr Classifled as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.	
Did the RSO identify possible hazards?		_	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestes Beryllium Other:	
Sample Receipt Criteria	Yes	Ϋ́	2 Comments/Qualifiers (Required for Non-Conforming Items)	
Shipping containers received intact and scaled?	V		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2 Chain of custody documents included with shipment?	V		Circle Applicable: Client contacted and provided COC COC created upon reccipt	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	$\checkmark$	_	Preservation Method: Wet Ice Dice Packs Dry ice None Other:  *all temperatures are recorded in Celsius  TEMP:	
4 Daily check performed and passed on IR temperature gun?	$\checkmark$		Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):	
5 Sample containers intact and sealed?	V		Circle Applicable: Scals broken Damagod container Leaking container Other (describe)	
6 Samples requiring chemical preservation at proper pH? WHO3 Co 23	$\bigvee$	/	Sample ID's and Containers Affected  H-56043-1, AFF56428, AF56421, AF56403, AF56402  II Preservation added. Latt. 13-44-13	19 F5W
Do any samples require Volatile Analysis?			If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer)  Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA Sample ID's and containers affected:	
8 Samples received within holding time?			ID's and tests affected:	
9 Sample ID's on COC match ID's on bottles?	<b>V</b>		ID's and containers affected:	
Date & time on COC match date & time on bottles?			eircle Applicable: No dates on containers No times on containers COC missing info Other (describe)  Thus for Singles AF51692, and AF53633, are seen as the containers of the c	ortes.
Number of containers received match number indicated on COC?	Ş	-3 -452	Circle Applicable: No container count on COC Other (describe)	~1401
Are sample containers identifiable as GEL provided by use of GEL labels?	V			
COC form is properly signed in relinquished/received sections?	V		Circle Applicable: Not relinquished Other (describe)	
premium teorice (ved sections:  Comments (Use Continuation Form if needed):			77 \	

List of current GEL Certifications as of 14 March 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 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
Vermont Virginia NELAP	460202
	C780
Washington	C/80





gel.com

April 03, 2023

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

Re: ABS Lab Analytical Work Order: 613005

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

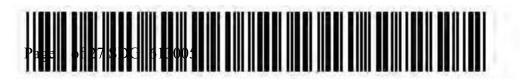
Sincerely,

Julie Robinson Project Manager

Inlie Robinson

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613005 GEL Work Order: 613005

#### 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.

	Irlie	Roberson
Reviewed by		

Page 2 of 27 SDG: 613005

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: April 3, 2023

SOOP00119

SOOP001

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: AF56433 Sample ID: 613005001

Matrix: GW

Collect Date: 28-FEB-23 12:58
Receive Date: 03-MAR-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting	5										
GFPC, Ra228, Liquid	"As Received"	1										
Radium-228	U	-0.249	+/-0.781	1.56	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-	228 Calculation	on "See Pa	arent Products"									
Radium-226+228 Sum		0.644	+/-0.904			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Lic	quid "As Recei	ived"										
Radium-226		0.644	+/-0.455	0.560	1.00	pCi/L			LXP1	04/03/23	0839 2397388	3
T1 f-11 A14	: - 1 N f - 41 4		1.									

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 89.8 (15%-125%)

#### Notes:

Method

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: April 3, 2023

SOOP00119

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: AF56435 Sample ID: 613005002

Matrix: GW

Collect Date: 28-FEB-23 11:44
Receive Date: 03-MAR-23
Collector: Client

613005002 Client ID: SOOP001 GW

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting											
GFPC, Ra228, Liquid ".	As Received"											
Radium-228	U	1.77	+/-1.29	2.03	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	rent Products"									
Radium-226+228 Sum		3.09	+/-1.47			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"										
Radium-226		1.32	+/-0.707	0.797	1.00	pCi/L			LXP1	04/03/23	0839 2397388	3
The following Analytic	al Methods w	ere perfo	rmed:									
Method	Description		·		·		Analys	st Co	mment	<u> </u>		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Result Nonlinial Recovery Acceptable Lilli

73.8 (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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Project:

Client ID:

**Analyst Comments** 

Report Date: April 3, 2023

SOOP00119

SOOP001

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: AF56436 Sample ID: 613005003

Matrix: GW

Collect Date: 28-FEB-23 10:19
Receive Date: 03-MAR-23
Collector: Client

MDC RLParameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 -0.0291 +/-0.690 1.35 3.00 pCi/L JE1 03/29/23 1353 2397799 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 0.482 +/-0.837 pCi/L NXL1 04/03/23 1450 2397798 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 0.482 +/-0.473 0.699 1.00 pCi/L LXP1 04/03/23 0839 2397388 3

The following Analytical Methods were performed:

Description

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

93.3 (15%-125%)

#### Notes:

Method

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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Report Date: April 3, 2023

SOOP00119

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: AF56437 Sample ID: 613005004

Matrix: GW

Collect Date: 28-FEB-23 10:24 Receive Date: 03-MAR-23 Collector: Client

Client ID: SOOP001

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Rad Gas Flow Proportion	onal Counting												
GFPC, Ra228, Liquid ".	As Received"												
Radium-228	U	-0.766	+/-0.835	1.75	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"										
Radium-226+228 Sum		0.569	+/-0.926			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"											
Radium-226		0.569	+/-0.399	0.392	1.00	pCi/L			LXP1	04/03/23	0839	2397388	3
The following Analytic	al Methods w	ere perfo	ormed:										
Method	Description					I	Analys	st Co	mment	S			

1 E	PA 904.0/SW846 9320 Modified				
2 C	Calculation				
3 E	CPA 903.1 Modified				
Surrogate/Tracer Recovery	y Test	Result	Nominal	Recovery%	Acceptable Limits

91.5 Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (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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Report Date: April 3, 2023

SOOP00119

**Analyst Comments** 

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: AF56438 Sample ID: 613005005

Matrix: GW

Collect Date: 28-FEB-23 14:31 Receive Date: 03-MAR-23 Collector: Client

Description

Project: Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228		2.60	+/-1.20	1.68	3.00	pCi/L		JE1	03/29/23	1353 2397799	1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		3.92	+/-1.36			pCi/L		1 NXL1	04/03/23	1450 2397798	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.32	+/-0.639	0.633	1.00	pCi/L		LXP1	04/03/23	0839 2397388	3
The following Analytic	al Methods w	ere perfo	rmed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer 87 (15%-125%) GFPC, Ra228, Liquid "As Received"

Method

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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Report Date: April 3, 2023

2

3

SOOP00119

SOOP001

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: AF56402 Sample ID: 613005006

Matrix: GW

Collect Date: 27-FEB-23 12:47
Receive Date: 03-MAR-23
Collector: Client

MDC RLParameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.51 +/-1.11 1.75 3.00 pCi/L JE1 03/29/23 1353 2397799 1

Project:

Client ID:

Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum 2.78 +/-1.28 pCi/L 1 NXL1 04/03/23 1450 2397798

Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226 1.26 +/-0.631 0.611 1.00 pCi/L LXP1 04/03/23 0839 2397388

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified2Calculation

2 Calculation 3 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

93.2 (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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Report Date: April 3, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF56403 Sample ID: 613005007

Matrix: GW

Collect Date: Receive Date: 03-MAR-23 Collector: Client

27-FEB-23 09:57

Project:

Client ID:

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	-0.163	+/-1.41	2.61	3.00	pCi/L		JE1	03/29/23	1353 2397799	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.55	+/-1.56			pCi/L		1 NXL1	04/03/23	1450 2397798	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.55	+/-0.668	0.494	1.00	pCi/L		LXP1	04/03/23	0839 2397388	3
The following Analytic	al Methods w	ere perfo	ormed:								

Method Description

EPA 904.0/SW846 9320 Modified

Calculation EPA 903.1 Modified

Nominal Acceptable Limits Surrogate/Tracer Recovery Test Result Recovery% Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 74 (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:

Client ID:

**Analyst Comments** 

Report Date: April 3, 2023

SOOP00119

SOOP001

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: AF56404 Sample ID: 613005008

Matrix: GW

Collect Date: 27-FEB-23 10:02
Receive Date: 03-MAR-23
Collector: Client

MDC RLParameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.00 +/-1.16 1.94 3.00 pCi/L JE1 03/29/23 1353 2397799 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 3.12 +/-1.42 pCi/L NXL1 04/03/23 1450 2397798 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 2.11 +/-0.816 0.467 1.00 pCi/L LXP1 04/03/23 0913 2397388 3

The following Analytical Methods were performed:

Description

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"

Result Norminal Recovery% Acceptable Limit Result Norminal Recovery% Acceptable Limit Recovery% Accepta

#### Notes:

Method

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: April 3, 2023

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: AF56434 Sample ID: 613005009

Matrix: GW

Collect Date: 27-FEB-23 15:44
Receive Date: 03-MAR-23
Collector: Client

 434
 Project:
 SOOP00119

 05009
 Client ID:
 SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Rad Gas Flow Proportion	onal Counting												
GFPC, Ra228, Liquid "	As Received"												
Radium-228		2.28	+/-1.34	2.01	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"										
Radium-226+228 Sum		3.38	+/-1.47			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"											
Radium-226		1.11	+/-0.592	0.650	1.00	pCi/L			LXP1	04/03/23	0913	2397388	3
The following Analytic	cal Methods w	ere perfo	ormed:										
Method	Description					I	Analys	st Con	nment	S			

Surrogate/Tracer Recov	erv Test	Result	Nominal	Recovery%	Acceptable Limits
3	EPA 903.1 Modified				
2	Calculation				
1	EPA 904.0/SW846 9320 Modified				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 70 (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: April 3, 2023

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: AF56414 Sample ID: 613005010

Matrix: GW

Collect Date: 02-MAR-23 12:46
Receive Date: 03-MAR-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proportio	nal Counting												
GFPC, Ra228, Liquid "A	As Received"												
Radium-228	U	1.86	+/-1.32	2.04	3.00	pCi/L			JE1	03/29/23	1353	2397799	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"										
Radium-226+228 Sum		3.89	+/-1.53			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"											
Radium-226		2.03	+/-0.775	0.608	1.00	pCi/L			LXP1	04/03/23	0913	2397388	3
The following Analytic	al Methods w	ere perfo	ormed:										

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 64.8 (15%-125%)

#### Notes:

Method

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: April 3, 2023

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: AF56423 Sample ID: 613005011

Matrix: GW

Collect Date: 02-MAR-23 09:52
Receive Date: 03-MAR-23
Collector: Client

Description

 423
 Project:
 SOOP00119

 05011
 Client ID:
 SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "	As Received"										
Radium-228		2.86	+/-1.55	2.31	3.00	pCi/L		JE1	03/29/23	1353 2397799	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		5.59	+/-1.83			pCi/L		1 NXL1	04/03/23	1450 2397798	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.72	+/-0.971	0.718	1.00	pCi/L		LXP1	04/03/23	0913 2397388	3
The following Analytic	cal Methods w	ere perfo	ormed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

**Analyst Comments** 

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 67.2 (15%-125%)

#### Notes:

Method

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: April 3, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF56428 Sample ID: 613005012

Matrix: GW

Collect Date: Receive Date: 03-MAR-23

02-MAR-23 10:56 Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF .	Analy	st Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting											
GFPC, Ra228, Liquid "A	As Received"											
Radium-228	U	1.86	+/-1.30	2.02	3.00	pCi/L			JE1	03/29/23	1353 2397799	1
Radium-226+Radium-22	28 Calculation	n "See Pa	rent Products"									
Radium-226+228 Sum		3.02	+/-1.43			pCi/L		1	NXL1	04/03/23	1450 2397798	2
Rad Radium-226												
Lucas Cell, Ra226, Liqu	ıid "As Recei	ved"										
Radium-226		1.16	+/-0.597	0.592	1.00	pCi/L			LXP1	04/03/23	0913 2397388	3
The following Analytic	al Methods w	ere perfo	rmed:									

Method Description **Analyst Comments** EPA 904.0/SW846 9320 Modified Calculation EPA 903.1 Modified

Nominal Recovery% Surrogate/Tracer Recovery Test Result Acceptable Limits Barium-133 Tracer 74 (15%-125%) GFPC, Ra228, Liquid "As Received"

#### 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: April 3, 2023

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: AF56421 Sample ID: 613005013

Matrix: GW

Collect Date: 01-MAR-23 14:41
Receive Date: 03-MAR-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Ana	lyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.24	+/-0.981	1.55	3.00	pCi/L		JE1	03/29/23	1354 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		1.94	+/-1.10			pCi/L		1 NXI	1 04/03/23	1450 2397798	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.704	+/-0.496	0.628	1.00	pCi/L		LXP	1 04/03/23	0913 2397388	3
The following Analytical Methods were performed:											

I	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" Result Nonlinial Recovery Acceptable Lilli 87.2 (15%-125%)

#### Notes:

Method

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: April 3, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF56424 Sample ID: 613005014

Matrix: GW

Collect Date: 01-MAR-23 13:37 Receive Date: 03-MAR-23

Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	0.794	+/-1.11	1.91	3.00	pCi/L		JE1	03/29/23	1354 2397799	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		1.98	+/-1.28			pCi/L		1 NXL1	04/03/23	1450 2397798	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.18	+/-0.630	0.605	1.00	pCi/L		LXP1	04/03/23	0913 2397388	3
The following Analytic	eal Methods w	ere perfo	ormed:								

Method Description **Analyst Comments** EPA 904.0/SW846 9320 Modified

Calculation EPA 903.1 Modified

Nominal Acceptable Limits Surrogate/Tracer Recovery Test Result Recovery% Barium-133 Tracer (15%-125%) GFPC, Ra228, Liquid "As Received" 66.8

#### 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:

Client ID:

**Analyst Comments** 

Report Date: April 3, 2023

SOOP00119

SOOP001

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: AF56439 Sample ID: 613005015

Matrix: GW

Collect Date: 01-MAR-23 10:22
Receive Date: 03-MAR-23
Collector: Client

MDC RLParameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 0.580 +/-0.976 1.72 3.00 pCi/L JE1 03/29/23 1354 2397799 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 0.994 +/-1.03pCi/L NXL1 04/03/23 1450 2397798 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 +/-0.336 0.373 1.00 pCi/L LXP1 04/03/23 0913 2397388 3

The following Analytical Methods were performed:

Description

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" 69.6 (15%-125%)

#### Notes:

Method

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

Certificate of Analysis

Report Date: April 3, 2023

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: AF56441 Sample ID: 613005016

Matrix: GW

Collect Date: 01-MAR-23 11:45 Receive Date: 03-MAR-23 Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 U 0.269 +/-0.783 1.43 3.00 pCi/L JE1 03/29/23 1354 2397799 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 1.02 +/-0.912 pCi/L 1 NXL1 04/03/23 1450 2397798 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 0.747 +/-0.468 0.416 1.00 pCi/L LXP1 04/03/23 0931 2397388 3 The following Analytical Methods were performed:													
GFPC, Ra228, Liquid ".	ad Gas Flow Proportional Counting  FPC, Ra228, Liquid "As Received"  dium-228 U 0.269 +/-0.783 1.43 3.00 pCi/L JE1 03/29/23 1354 2397799 1  adium-226+Radium-228 Calculation "See Parent Products"  dium-226+228 Sum 1.02 +/-0.912 pCi/L 1 NXL1 04/03/23 1450 2397798 2  ad Radium-226  acas Cell, Ra226, Liquid "As Received"  dium-226 0.747 +/-0.468 0.416 1.00 pCi/L LXP1 04/03/23 0931 2397388 3  the following Analytical Methods were performed:												
Radium-228	U	0.269	+/-0.783	1.43	3.00	pCi/L			JE1	03/29/23	1354	2397799	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"										
Radium-226+228 Sum		1.02	+/-0.912			pCi/L		1	NXL1	04/03/23	1450	2397798	2
Rad Radium-226													
Radium-226+Radium-228 Calculation "See Parent Products"  Radium-226+228 Sum 1.02 +/-0.912 pCi/L 1 NXL1 04/03/23 1450 2397798 2  Rad Radium-226  Lucas Cell, Ra226, Liquid "As Received"  Radium-226 0.747 +/-0.468 0.416 1.00 pCi/L LXP1 04/03/23 0931 2397388 3  The following Analytical Methods were performed:													
Radium-226		0.747	+/-0.468	0.416	1.00	pCi/L			LXP1	04/03/23	0931	2397388	3
The following Analytic	al Methods w	ere perfo	ormed:										
Method	Description					F	Analys	st Co	mment	S			

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

91.4 Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (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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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: April 3, 2023

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

**Contact:** Ms. Jeanette Gilmetti

Workorder: 613005

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow Batch 2397799 ———										
QC1205344410 613005001 DUP										
Radium-228	U	-0.249 +/-0.781		1.56 +/-1.00	pCi/L	276*		(0% - 100%)	JE1	03/29/23 13:53
	Uncertainty	+/-0./81		+/-1.00						
QC1205344411 LCS										
Radium-228	62.2			70.2	pCi/L		113	(75%-125%)		03/29/23 13:53
	Uncertainty			+/-4.54						
QC1205344409 MB										
Radium-228			U	0.121	pCi/L					03/29/23 13:53
	Uncertainty			+/-1.00	1					
Rad Ra-226										
Batch 2397388 ——										
QC1205343453 613005001 DUP Radium-226		0.644		1.16	pCi/L	57.3		(0% - 100%)	I XP1	04/03/23 09:48
Radium 220	Uncertainty	+/-0.455		+/-0.620	pel/E	37.3		(070 10070)	L211 1	04/03/23 07.40
	j									
QC1205343455 LCS	06.5			20.5	G: /r		446	(550/ 1050/)		0.4/0.0/0.0 0.0 40
Radium-226	26.5			30.7 +/-2.99	pCi/L		116	(75%-125%)		04/03/23 09:48
	Uncertainty			⊤/ <b>-</b> ∠.99						
QC1205343452 MB										
Radium-226			U	0.167	pCi/L					04/03/23 09:48
	Uncertainty			+/-0.305						
OC1205343454 613005001 MS										
Radium-226	132	0.644		101	pCi/L		75.5	(75%-125%)		04/03/23 09:48
	Uncertainty	+/-0.455		+/-11.8	•			,		

# **Notes:**

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

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Page 1 of 2

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

# QC Summary

Workorder: 613005

Page 2 of 2

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

>	Result is greater than value reported	

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

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.

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# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 613005

**Product:** Radium-226+Radium-228 Calculation

**Analytical Method:** Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

**Analytical Batch:** 2397798

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
613005001	AF56433
613005002	AF56435
613005003	AF56436
613005004	AF56437
613005005	AF56438
613005006	AF56402
613005007	AF56403
613005008	AF56404
613005009	AF56434
613005010	AF56414
613005011	AF56423
613005012	AF56428
613005013	AF56421
613005014	AF56424
613005015	AF56439
613005016	AF56441

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:** GFPC, Ra228, Liquid

<u>Analytical Method:</u> EPA 904.0/SW846 9320 Modified <u>Analytical Procedure:</u> GL-RAD-A-063 REV# 5

**Analytical Batch:** 2397799

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

GEL Sample ID#	Client Sample Identification
613005001	AF56433
613005002	AF56435
613005003	AF56436

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613005004	AF56437
613005005	AF56438
613005006	AF56402
613005007	AF56403
613005008	AF56404
613005009	AF56434
613005010	AF56414
613005011	AF56423
613005012	AF56428
613005013	AF56421
613005014	AF56424
613005015	AF56439
613005016	AF56441
1205344409	Method Blank (MB)
1205344410	613005001(AF56433) Sample Duplicate (DUP)
1205344411	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
1205344410 (AF56433DUP)	Radium-228	RPD 276* (0.0%-100.0%) RER 2.65 (0-3)

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

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

**Analytical Batch:** 2397388

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
613005001	AF56433
613005002	AF56435
613005003	AF56436
613005004	AF56437
613005005	AF56438
613005006	AF56402
613005007	AF56403

613005008	AF56404
613005009	AF56434
613005010	AF56414
613005011	AF56423
613005012	AF56428
613005013	AF56421
613005014	AF56424
613005015	AF56439
613005016	AF56441
1205343452	Method Blank (MB)
1205343453	613005001(AF56433) Sample Duplicate (DUP)
1205343454	613005001(AF56433) Matrix Spike (MS)
1205343455	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, 1205343454 (AF56433MS), 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.

Page 23 of 27 SDG: 613005

Contract Lab Info:

Contract Lab Due Date (Lab Only):

612999 / 613005

Send report to <a href="mailto:lcwillia@santeecooper.com">lcwillia@santeecooper.com</a> & <a href="mailto:sibrown@santeecooper.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrown.com">sibrown.com</a> & <a hr

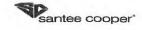
# **Chain of Custody**



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

Custo	mer Email,	/Report Recipie	nt:	Date R	esults Ne	eded b	y:		Pr	oject/	Task/l	Jnit #:	Rerun request	for a	ny fla	gged	JQC
LCH	NULLA	@santeec	ooper.com					125	715	JM	02.0	9.601.1	36500 Yes	No			
														£	Analysi	s Gro	<u>up</u>
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	orks ID # nal use	Sample Locatio Description	n/	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	Method     Reportin     Misc. sa     Any oth	ng limit Imple info	ALKALINITY	Suchbe	TOC/POC	RAD 226/228
AF	26433	WLF -AI-	- 1	2/23/23	1258	ZDM	6	Pla	G	GW	朱	* SUUFID	E HAS SHORT HOLD	1.	1	2	2
1	35	WLF - AI -	3		ग्राप्	1				1						1	
	36	WLF-AI-	4		1019							* PRESE	RATIVES				T
	37	WLF - AI -	4-D		1024							TOC- H2S	DY ZINC ACETATE, NOUTH	П			
丁	33	WLF-AI-			1431	1	1		1	1		RAD-HNI		$\prod$	$\dagger$	T	$\parallel$
4=5	6402	WAP-9		2/27/28	1247	ZDM	1		1	1	1				$\dagger$	$\parallel$	$\dagger$
1	03	WAT-10		1	0957	1						ALK - TOT	HL, BICARB, CARB	$\dagger$	$\dagger$		$\parallel$
	04	WAP-10 D			1062		$\top$		+	T		1.54	ing Diolity - Heb	$\dagger$	$\dagger$	$\dagger$	$\parallel$
1	434	WLE-AI-		1	1544		_	1	1		1	DOC-NOT	FIELD FIVERED	1	Ţ	1	1
											L						
Reli	nquished by:	Employee#	Date	Time	Receiv	red by:		Employee	#	Date		Time	Sample Receiving (Internal TEMP (°C):	Use Oi Initia	nly) il:		
V	nguished by:	35594 Employee#	3/3/23 Date	Gyo Time	Receiv	red by:		SEL Employee	-	3/3/2 Date		Time	Correct pH: Yes No				
100		GEL	3-3/21	Stime	M	e	£(	de	0	309	23	550	Preservative Lot#:				
Relii	nquished by:	Employee#	Date	Vilme	Kecen	ed by:		Employee	#	Date		Time	Date/Time/Init for preserv	ative:			
☐ Ag ☐ AI ☐ As ☐ B ☐ Ba ☐ Ca ☐ Cd ☐ Co ☐ Cr	C   C   Fe   Fe   K   Li   M   M   M   Na	□ METALS (all)         Nutrients           □ Cu         □ Sb           □ Fe         □ Se           □ DOC         □ Naphthalene           □ TP/TPO4         □ NH3-N           □ Mg         □ Ti           □ Mg         □ Ti           □ Mn         □ Ti           □ Mo         □ V           □ No3         □ Dissolved A           □ Ni         □ Hg           □ Pb         □ CrVI			lene AA rease oliform ed As ed Fe		Wallbo Gyp belo A To To So Pu Su Su PH	sum (a w) IM OC tal meta luble M rity (Ca Moistur lifites lorides rticle Si	alls letals (SO4)	0	Coal  Ultimate  Moisture  LOI  Ash Sulfur BTUs Volatile Matter CHN Other Tests: XRF Scan HGI Fineness Particulate Matter Oil & Grease As			Oil  Trans. Oil Qual.  Moisture Color Acidity Dielectric Strength FIFT Dissolved Gases Used Oil Hashpoint Metals in oil (As,Cd,Cr,Ni,PbHg) TX GOFER			

# **Chain of Custody**



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

	mer Email	/Report Recipi @santeed	ent: cooper.com		esults Ne			125				Jnit#: 09.60).1/36	Rerun request	for an	ıy fla	gged	QC
														A	nalysi	s Grou	<u>ıp</u>
	orks ID # nal use	Sample Location  Description	on/	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	• Method # • Reporting I • Misc. samp • Any other I	ole info	ALKALINITY	SULFIPE	TDC/DOC	RAD 226/228
AF	56414	WA-P-15		3/2/23	1246	ZDM	6	P/G	G	GW	*	4 SULFIDE	HAS SHORT HOLD	4	ı	2	2
1	23	WAP - 23	3		0952		1	1	1						1	1	1
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Rel	inquished by:	Employee#	3-3-2 3 Date	1540 Uline	Recei	ved by:	1 ()	Employe	e#	Date	a5	Time	te/Time/Init for preserv	ative:			
	□М	ETALS (all )	Nut	rionts	BAI	sc.		G	ypsui	m			Flyash			il	
	g 🗆 C	u □ Sb	□ TC		BTEX	SC.		□ Wallb	oard			Coal Ultimate	☐ Ammonia		ans. C	oil Qu	
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□В	οL	ENGLISH MEANING	□NI	A DOOR OF THE REAL PROPERTY.	□ VOC □ Oil & C	rease		□ AIM □ TOC		□ Sulfur	☐ Mineral	DI		y ic Stree	ngth		
□ Ba		fg □ Ti	□ F □ Cl	- 33	☐ E. Coli ☐ Total C			O T	otal met		· F	☐ BTUs ☐ Volatile Matte	Analysis □ Sieve		IFT Dissol	ved G	ases
□Ве	. □ N	ín □ Tl	DNO		□рН			□ Pt	oluble N urity (Ca	aSO4)	1	□ CHN	☐ % Moisture	U	sed O	il	
□ Ca		fo □ V	□ Br □ NO		☐ Dissolv				Moistu ulfites	ire	1 10 100	Other Tests:  XRF Scan	NPDES	E		s in oil	
□Сс	I DN	a □ Zn	USC		□ Rad 220	5		□ pl	Н		E	HGI	Oil & Grease			d,Cr,N	
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Received By, MVH  Date Received  Pedita Express Fedita Ground UPS Field Service Course) Other  Carrier and Tracking Number  Suspected Hazned Information  \$\frac{\pi}{2} \frac{\pi}{2} \cdot PiPet Cours is 100cpm on uniques and tracked "indicactive", contact the Radiation Safety Group for factor investigation.  AlsSingpod as a DOT Haznedson?  Did the RSO clearity the samples are to be received an anticourtee?  Obd the RSO clearity the samples are observed in included with the property of the property	Client; Y			(CT)	SAMPLE RECEIPT & REVIEW FORM	
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Simperted Hazard Information	Received By: 1919 1			Dat	Circle Applicable;	
AjShipped as a DOT Hazadous?  Trun7910, it the Redisoutive Shipped:  If UN7910, it the Redisoutive Shipment Survey Compliant? Yes_No_  OCC notation or malinactive stickets on continens equal client designation.  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Observed Counts - Area Background Counts):  Chairman Net Courts Chearved* (Obs	Carrier and Tracking Number				FedEx Express FedEx Ground UPS Field Service Courier Other	
Al Shipped at a DOT Hazaclour?  If UN29(0, Is the Radioactive Shipment Survey Compliant? Yes_No_  COC notation or milinerive stickers on containers equal client designation.  COC notation or milinerive stickers on containers equal client designation.  COC notation or milinerive stickers on containers equal client designation.  CoC notation or milinerive stickers on containers equal client designation.  Chair of Radioactive?  COC notation or milinerive stickers on containers equal client designation.  Chair of Radioactive?  COC notation or milinerive stickers on containers equal client designation.  If Do the Radioactive Shipment Survey Compliant? Yes_No_  Chair of Radioactive Shipment Survey Compliant? Yes_No_  Chair of Radioactive Shipment Survey Compliant?  Coc Coccasion or hazard falsely on continiers equal client designation.  If Do the Radioactive Shipment Survey Compliant? Yes_No_  Chair of Radioactive Shipment Survey Compliant?  Coccasion or hazard falsely on continiers equal client designation.  If Do the Radioactive Shipment Survey Compliant? Yes_No_  Shipping containers received intact and sealed?  Coccasion or hazard falsely on continiers equal client designation.  If Do the Radioactive Shipment Survey Compliant? Yes_No_  Shipping containers received intact and sealed?  Chair of Current Applicable: Scalab broken Duranged container Leaking comminer Other (describe)  Samples requiring cold preservation within (0 & dose, C.)?*  Circle Applicable: Scalab broken Duranged container Leaking comminer Other (describe)  TEMP:  Temperature power served served in If, Paplicable;  Samples requiring chemical preservation within the Requiring chemical preservation and proper pH? March Survey Country and Survey Country of the Radioactive State of R	Suspected Hazard Information	Yes	S <sub>S</sub>	*1f1	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
final times RSO classify the samples as redioactive?  Clust the RSO identify possible baracters?  Did the RSO identify possible baracters?  Final times are contained as a sample as the properties of the client designate samples are hazardose?  OCO notation or bazard labels on containers equal client designation.  If D or E is yes, select Hazards below.  PCB's Flammable Foreign Soil RCRA Asbeatos Beryllium Other:  Sample Receipt Criteria  Simple Receipt Criteria  Simple Receipt Criteria  Cricle Applicable: Scala broken Damaged consular Leaking container Other (describe)  Cricle Applicable: Clian contacted and properties of the Cricle Applicable: Scala broken Damaged consular Leaking container Other (describe)  Cricle Applicable: Clian contacted and provided COC COC created upon receipt with shipment?  Samples requiring cold preservation within (0 ≤ 6 deg. C)?**  Temperature Device Serial #; [#221]  Scoondary Temperature Device Serial #; [#222]  Samples requiring chemical preservation alphanes of the containers intact and scaled?  Temperature Device Serial #; [#221]  Samples requiring chemical preservation alphanes of the containers and passed on IR preservation alphanes of the containers and passed on IR preservation alphanes of the containers and passed on IR preservation alphanes of the containers and passed on IR preservation alphanes of the containers and passed on the containers and passed containers of the containers and passed on the containers and passed containers and passe	A)Shipped as a DOT Hazardous?		~	/laz:	ard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No	
Consider or hazard tabels on continers equal client designation.    Consider or hazard tabels on continers equal client designation.			V	ccc	C notation or radioactive stickers on containers equal client designation.	
Simple Receipt Criteria   S   Sea   Comments/Qualiffers (Required for Non-Conforming Hens)			V	Max	cimum Net Counts Observed* (Observed Counts - Area Background Counts):CPMy mR/Hr Classified as: Rad 1	
Sample Receipt Criteria   Sample Receipt C	D) Did the client designate samples are hazardous?		V	<u> </u>		
Sample Receipt Criteria  Shipping containers received intact and scaled?  Chain of custody documents included with shipment?  Chain of custody documents included with shipment?  Samples requiring cold preservation within (0 ≤ 6 deg. C)?*  Date Applicable: Seals broken Damaged container Lenking container Other (describe)  TEMP:  Temperature gun?  Samples requiring chemical preservation at proper pH? WAACS COO3  Samples requiring chemical preservation at proper pH? WAACS COO3  Samples requiring chemical preservation at proper pH? WAACS COO3  Samples received within holding time?  Sample ID's on COC match ID's on containers affected:  Date & time on COC match date & time on bottles?  ID's and containers affected:  Circle Applicable: No containers No times on containers COC missing info Other (describe)  Circle Applicable: No containers count on COC Other (describe)  Circle Applicable: No containers count on COC Other (describe)  Circle Applicable: No containers count on COC Other (describe)  Circle Applicable: No containers count on COC Other (describe)	E) Did the RSO identify possible hazards?		<b>  '</b>	עייין		
1 Schipping containers received intact and scaled? 2 Chain of custody documents included with shipment? 3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?* 4 Daily check performed and passed on IR remperatures for requiring themical preservation at proper pH?		8		9	Comments/Qualifiers (Peaning for Non-Conforming Hones)	
with shipment?  3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?**  4 Daily check performed and passed on IR temperature gua?  5 Sample containers intact and sealed?  6 Samples requiring chemical preservation at proper pH?	Shipping containers received intact and	V				
*all temperatures are recorded in Cetsius  *all temperature and passed on IR temperature gun?  *all temperature Device Serial #; [R2-21] Scoondary Temperature Device Serial #; [R2-21] Sample Disance Only (Getal Analysis) If Preservation Analysis Preservation Preservation Preservation Preservation Preservat	2.1	~				
temperature gun?  Secondary Temperature Device Serial # (If Applicable):  Circle Applicable: Seals broken Damaged container Leaking container Other (describe)  Sample containers intact and sealed?  Sample containers intact and sealed?  Sample D's and Containers Affected:  The Preservation added. Lodg: The Social Preservation at proper pH? MAGS CODS  If Preservation added. Lodg: The Social Preservation at proper pH? MAGS CODS  If Preservation added. Lodg: The Social Preservation added. Lo		$\checkmark$			1	
Samples requiring chemical preservation at proper pH? MACS Cop3  The second of proper pH? MACS Cop3  T		$\vee$				
Do any samples require Volatile Analysis?  No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes No NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No NA (If unknown	5 Sample containers intact and sealed?	V				
Do any samples require Volatile Analysis?  No NA (If unknown, select No)  Are liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No)  Are liquid VOA vials containers affected:  ID's and containers affected:  ID's and containers affected:  Date & time on COC match date & time on bottles?  Date & time on COC match date & time on bottles?  Number of containers received match number indicated on COC?  Are sample containers identifiable as	6 Samples requiring chemical preservation at proper pH? WV+63-06-33	V	/		Sample ID's and Container's Affected 50428, AF50421, AF56403, AF56402 If Preservation added, Loth L3-14-13	17F56
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					Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA	
bottles?  Date & time on COC match date & time on bottles?  Number of containers received match number indicated on COC?  Are sample containers identifiable as	8 Samples received within holding time?	<b>V</b>			ID's and tests affected:	
on bottles?  Number of containers received match number indicated on COC?  Are sample containers identifiable as	u i ·	V			ID's and containers affected:	
number indicated on COC?  Are sample containers identifiable as	111 1			V	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)  The Second Street Cock of the Cock of	ortes.
12 Are sample containers identifiable as	number indicated on COC?	~			Circle Applicable: No container edunt on COC Other (describe)	1,10
COC form is properly signed in Circle Applicable: Not religious shed. Other (describe)	GEL provided by use of GEL labels?				Circle Applicable: Not relinquished Other (describe)	
relinquished/received sections?  Comments (Use Continuation Form if needed):	relinquished/received sections?					
	PM (or PM	A) rev		······································	als: Date 3-17-23 Page Lof L	

List of current GEL Certifications as of 03 April 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Pennsylvania NELAP  Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee Teves NEL A P	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780





gel.com

March 20, 2023

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

Re: ABS Lab Analytical Work Order: 613953

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 10, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

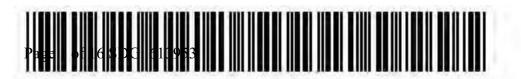
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Heather Millar for Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613953 GEL Work Order: 613953

# 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

Page 2 of 16 SDG: 613953

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 20, 2023

SOOP00119

SOOP001

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: AF56414
Sample ID: 613953001
Matrix: Ground Water
Collect Date: 02-MAR-23 12:46
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF .	Analyst Date	Time Batch	Method
Nutrient Analysis										
EPA 353.2 Nitrogen,	Nitrate/Nitrite '	'As Received"								
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10	AXH3 03/13/23	0951 2395701	1
The following Analy	tical Methods w	vere performed:								
3.6.4.4	ъ						~			

Method Description Analyst Comments

1 EPA 353.2 Low Level

# **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

Page 3 of 16 SDG: 613953

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

Certificate of Analysis

Report Date: March 20, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56423
Sample ID: 613953002
Matrix: Ground Water
Collect Date: 02-MAR-23 09:52
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Nutrient Analysis									
EPA 353.2 Nitrogen	, Nitrate/Nitrite	"As Received"							
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10 AXH3 03/13/23	0957 2395701	1
The following Anal	ytical Methods v	vere performed:							

Method Description Analyst Comments

1 EPA 353.2 Low Level

# 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

Page 4 of 16 SDG: 613953

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

Certificate of Analysis

Report Date: March 20, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56428
Sample ID: 613953003
Matrix: Ground Water
Collect Date: 02-MAR-23 10:56
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date Time Batch	Method
Nutrient Analysis								
EPA 353.2 Nitrogen,	, Nitrate/Nitrite '	'As Received"						
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10 AXH3 03/13/23 0958 2395701	1
The following Analy	ytical Methods w	vere performed:						
							~	

Method Description Analyst Comments

EPA 353.2 Low Level

# 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

Page 5 of 16 SDG: 613953

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

Certificate of Analysis

Report Date: March 20, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56406
Sample ID: 613953004
Matrix: Ground Water
Collect Date: 09-MAR-23 10:29
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
Nutrient Analysis								
EPA 353.2 Nitrogen	, Nitrate/Nitrite	"As Received"						
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10 AXH3 03/13/23	0959 2395701 1
The following Anal	ytical Methods v	vere performed:						

Method Description Analyst Comments

EPA 353.2 Low Level

## 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

Page 6 of 16 SDG: 613953

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 20, 2023

SOOP00119

SOOP001

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: AF56407
Sample ID: 613953005
Matrix: Ground Water
Collect Date: 09-MAR-23 10:34
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date Time Batch M	Method
Nutrient Analysis								_
EPA 353.2 Nitrogen,	Nitrate/Nitrite '	'As Received"						
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10 AXH3 03/13/23 1001 2395701	1
The following Analy	tical Methods w	vere performed:						
M . 41 1	D					A 1		

Method Description Analyst Comments

EPA 353.2 Low Level

## **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

Page 7 of 16 SDG: 613953

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

Certificate of Analysis

Report Date: March 20, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56418
Sample ID: 613953006
Matrix: Ground Water
Collect Date: 09-MAR-23 12:07
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Nutrient Analysis									
EPA 353.2 Nitrogen,	Nitrate/Nitrite "	As Received"							
Nitrogen, Nitrate/Nitrite	U	ND	0.0700	0.200	mg/L		10 AXH3 03/13/23	1002 2395701	1
The following Analy	tical Methods w	ere performed:							

Method Description Analyst Comments

EPA 353.2 Low Level

# 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

Page 8 of 16 SDG: 613953

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 20, 2023

SOOP00119

SOOP001

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: AF56422
Sample ID: 613953007
Matrix: Ground Water
Collect Date: 09-MAR-23 13:19
Receive Date: 10-MAR-23

Collector: Client

Parameter DLRLUnits PF Qualifier Result DF Analyst Date Time Batch Method **Nutrient Analysis** EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received" Nitrogen, Nitrate/Nitrite 0.0700 0.200 mg/L 10 AXH3 03/13/23 1003 2395701

The following Analytical Methods were performed:

Method Description Analyst Comments

1 EPA 353.2 Low Level

# 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

Page 9 of 16 SDG: 613953

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

**QC** Summary

Report Date: March 20, 2023

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

**Contact:** Ms. Jeanette Gilmetti

Workorder: 613953

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Nutrient Analysis Batch 2395701								
QC1205340398 613378004 DUP Nitrogen, Nitrate/Nitrite		3.24	3.16	mg/L	2.5		(0%-20%) AXH3	03/13/23 09:29
QC1205340397 LCS Nitrogen, Nitrate/Nitrite	1.00		1.07	mg/L		107	(90%-110%)	03/13/23 09:25
QC1205340396 MB Nitrogen, Nitrate/Nitrite		U	ND	mg/L				03/13/23 09:24
QC1205340399 613378004 PS Nitrogen, Nitrate/Nitrite	1.00	0.324	1.32	mg/L		99.6	(90%-110%)	03/13/23 09:30

#### **Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

Page 10 of 16 SDG: 613953

Page 1 of 2

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# QC Summary

Workorder: 613953

Parmname

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

- N1 See case narrative
- 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.
- B The target analyte was detected in the associated blank.
- 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
- J See case narrative for an explanation

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.

Page 11 of 16 SDG: 613953

# Technical Case Narrative Santee Cooper SDG #: 613953

# **General Chemistry**

<u>Product:</u> Nitrate/Nitrite Cad Redux Low Level <u>Analytical Method:</u> EPA 353.2 Low Level <u>Analytical Procedure:</u> GL-GC-E-128 REV# 11

**Analytical Batch:** 2395701

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

GEL Sample ID#	<b>Client Sample Identification</b>
613953001	AF56414
613953002	AF56423
613953003	AF56428
613953004	AF56406
613953005	AF56407
613953006	AF56418
613953007	AF56422
1205340396	Method Blank (MB)
1205340397	Laboratory Control Sample (LCS)
1205340398	613378004(NonSDG) Sample Duplicate (DUP)
1205340399	613378004(NonSDG) Post Spike (PS)

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**

# **Sample Dilutions**

The following samples 1205340398 (Non SDG 613378004DUP) and 1205340399 (Non SDG 613378004PS) were diluted because target analyte concentrations exceeded the calibration range. The following samples 613953001 (AF56414), 613953002 (AF56423), 613953003 (AF56428), 613953004 (AF56406), 613953005 (AF56407), 613953006 (AF56418) and 613953007 (AF56422) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analysis			6	1395	3		
Analyte	001	002	003	004	005	006	007
Nitrogen, Nitrate/Nitrite	10X	10X	10X	10X	10X	10X	10X

# **Certification Statement**

Page 12 of 16 SDG: 613953

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.

Page 13 of 16 SDG: 613953

# **Chain of Custody**



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

	er Email	/Report Recip			Results N	eeded i	oy:					Unit #:		Rerun reque	est for an	y flagged (
		@sante	ecooper.com		/		• 5	125	915	J_JN	102.	09.60	1.1/3	6500 Yes	s (No	
	L- 15 #	T		LI TANGGER COM	NI CONTRACTOR										<u>A</u>	nalysis Group
(Interna only)		Sample Locat Description	ion/	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	• R	ethod # eporting l isc. samp	ole info	NDs/NO2	
AF56	414	WAP-15		3/2/23	1246	2DM ML	ı	P	G	GW	3/			4	×	
-1	23	WAP-23		1	0952	1	1	1	-	-	1					
	28	WAP-27			1056			1		1	+					+
	20	WAT 21		-		-		-	上	-					$\blacksquare$	
	06	WAP-12		3/9/23	1029		1									
	07	WAP - 120			1034											
	18	WAP-18			1207											
	22	WAP-22			1319		1			+					+H	
	22	WAT 22		-	1511	_	-	1		1	Ā				1	
		-														
Polingu	ished by:	T = 0 0											Camp	olo Pogolisia a Mataura		
8919u	-	Employee#	3/10/23	Time	Receive			ployee #		Date		Time		le Receiving (Interna I <b>P</b> (°C):		
	ished by:	Employee#	Date	Time	M. A.	ed by:	-	ployee #	_	/10/2: Date	3	Time	Corr	ect pH: Yes N	0	
M. Dr	~	GEL	3.10.23	1620 .	AN	20		Er	3	11	3	1620	Prese	ervative Lot#:		
	ished by:	Employee#	Date	Time 2	Receive	d by:		ployee #		JO 2 Date	15	Time				
													Date/	Time/Init for presen	vative:	
	□ ME	TALS (all)	Nutr	ients	MIS	C		Gun	sum		100	0 1			100g = 100	1 2 20
AI AI	☐ Cu	☐ Sb	DITOC	materials (cr)	BTEX	<u>u.</u>	1 1	Wallboa	A STREET, SQUARE, SQUA			Coal		<u>Flyash</u>		<u>Oil</u>
As	□ K	□ Sn	I DOG	E	Naphthale			Gypsi	ım(all		E CONTRACTOR	Itimate  ☐ % Moist	ure	☐ Ammonia ☐ LO1	1 %N	Old Qual.
В	DLi	□ Sr	☐ TP/T	The second second	THM/HA.			below,		45.1	1	Ash		□ % Carbon	D Cok	H Charles
Ba	□ Mg	□ Ti	OF		Oil & Gre E. Coli	ase	TAX.	UTOC			1000	☐ Sulfur ☐ BTUs		☐ Mineral	□ Diele	ctric Strength
Be	□ Mn		E Cl	E 1000	Total Coli	form		□ Total □ Solub				Volatile	Matter	Analysis  ☐ Sieve	U Diss	olved Gases
Ca	□Мо		□ NO2	2 May 20	pH Dissolved	Ac		D Purity	(CaSC		E	CHN	CITY	☐ % Moisture	1 Lised	Oil
Cd	□ Na	□ V	NO3		Dissolved		1037	☐% Mo				er Tests: RF Scan	45 3	NIDDEC	- Flash	spoise ds in oil
Sea 1550 16		□ Zn	□ SO4		Rad 226 Rad 228		3 3/10	□pH		F-101/2	□HC	GI II	16 7	NPDES	(As.	Cd.Cr.Ni,Pb
Co Cr	□ Ni □ Pb	☐ Hg			PCB		(SIL	□ Chlor	A SECURE OF	41121		neness rticulate Ma	tter	□ Oil & Grease □ As	Hg)	100
	ILI	□ CrVI		100			0.5	Sulfur	- 3	1000	1		-	□ TSS	GOFE	R

	GEL Laboratories LLG				CAMPLE PROPERTY A WARRENGE OF THE PROPERTY OF						
Cli	ent: COP				SAMPLE RECEIPT & REVIEW FORM						
CII	ent: See I			SD	G/AR/COC/Work Order: 6 139,53						
Re	reived By:			Da	te Received: 3/10/25.						
	Carrier and Tracking Number				FedEx Express FedEx Ground UPS Field Services Courier Other						
Sus	pected Hazard Information	Yes	Š	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investi							
A)S	hipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNuNu							
	Did the client designate the samples are to be ived as radioactive?		1	COC notation or radioactive stickers on containers equal client designation.							
	Did the RSO classify the samples as pactive?		/	Ma.	ximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3						
	Oid the client designate samples are hazardous?			1	C notation or hazard labels on containers equal client designation.  O or E is yes, select Hazards below.  PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:						
E) I	old the RSO identify possible hazards?		/		PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:						
	Sample Receipt Criteria	Yes	Y.	ž	Comments/Qualifiers (Required for Non-Conforming Items)						
1	Shipping containers received intact and sealed?	1			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)						
2	Chain of custody documents included with shipment?	1			Circle Applicable: Client contacted and provided COC COC created upon receipt						
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	/			Preservation Method: Wet Ice Jce Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:						
4	Daily check performed and passed on IR temperature gun?	/	1		Temperature Device Serial #:						
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)						
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected:  If Preservation added, Lot#:						
7	Do any samples require Volatile Analysis?		11.11	/	If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer)  Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA  Sample ID's and containers affected:						
8	Samples received within holding time?	/			1D's and tests affected:						
9	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:						
10	Date & time on COC match date & time on bottles?	/			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?	1		Circle Applicable: No container count on COC Other (describe)							
12	GEL provided by use of GEL labels?										
	COC form is properly signed in relinquished/received sections? ments (Use Continuation Form if needed):		港		Circle Applicable: Not relinquished Other (describe)						

PM (or PMA) review: Initials Date 3/13/23 Page L of L

List of current GEL Certifications as of 20 March 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 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
Vermont Virginia NELAP	460202
	C780
Washington	C/80





gel.com

March 21, 2023

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

Re: ABS Lab Analytical Work Order: 613959

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 10, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613959 GEL Work Order: 613959

## 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
- H Analytical holding time was exceeded
- 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

Page 2 of 55 SDG: 613959

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

# Certificate of Analysis

Project:

Client ID:

Analyst Comments

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56409
Sample ID: 613959001
Matrix: Ground Water
Collect Date: 06-MAR-23 12:14
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF .	Analyst Date	Date Time Batch	
Carbon Analysis										
SM 5310 B Total Organi	ic Carbon "A	s Received"								
Total Organic Carbon Average	:	8.36	0.660	2.00	mg/L		2	TSM 03/21/23	0112 2397544	1
Spectrometric Analysis										
SM 4500-S(2-) D Sulfide	e "As Receiv	/ed"								
Total Sulfide	Н	198	13.2	40.0	mg/L		400	HH2 03/14/23	1759 2397596	2
Titration and Ion Analys	is									
SM 2320B Total Alkalin	ity "As Rece	eived"								
Alkalinity, Total as CaCO3	-	344	2.42	6.67	mg/L			EK1 03/13/23	1409 2397768	3
Bicarbonate alkalinity (CaCO3	)	344	2.42	6.67	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	2.42	6.67	mg/L					
The following Analytica	al Methods w	vere performed:								

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### **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

Page 3 of 55 SDG: 613959

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56409
Sample ID: 613959002
Matrix: Ground Water
Collect Date: 06-MAR-23 12:14
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF :	OF A	Analyst Date	Time Batch	Method	
Carbon Analysis											
SM 5310 B Disso	olved Organic Carb	on "As Received"									
Dissolved Organic Ca	rbon Average	8.18	0.660	2.00	mg/L		2 T	SM 03/20/23	1639 2399632	1	
The following Pro	ep Methods were p	erformed:									
Method	Description	n		Analyst	Date	Т	ime	Prep Batch			
EPA 160	Laboratory F	iltration - DOC		TSM	03/17/23	12	237	2397540			
EPA 160	Laboratory F	iltration - DOC		TSM	03/15/23	1	.35	2397540			
The following A	nalytical Methods v	were performed:									
Method	Description		Analyst Comments								

# **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

SM 5310 B

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 55 SDG: 613959

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

03/13/23 1420 2397768

3

SOOP00119

SOOP001

EK1

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: AF56410
Sample ID: 613959003
Matrix: Ground Water
Collect Date: 06-MAR-23 12:19
Receive Date: 10-MAR-23

Client

DL RL Parameter Qualifier Result Units PF DF Analyst Date Time Batch Method Carbon Analysis SM 5310 B Total Organic Carbon "As Received" Total Organic Carbon Average 0.660 2.00 mg/L TSM 03/21/23 0217 2397544 1 Spectrometric Analysis

SM 4500-S(2-) D Sulfide "As Received"

Total Sulfide H 69.6 6.60 20.0 mg/L 200 HH2 03/14/23 1759 2397596

Titration and Ion Analysis

SM 2320B Total Alkalinity "As Received"

Alkalinity, Total as CaCO3 339 2.07 5.71 mg/L
Bicarbonate alkalinity (CaCO3) 339 2.07 5.71 mg/L
Carbonate alkalinity (CaCO3) U ND 2.07 5.71 mg/L
The following Analytical Methods were performed:

Method Description Analyst Comments

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

Collector:

# 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

Page 5 of 55 SDG: 613959

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56410
Sample ID: 613959004
Matrix: Ground Water
Collect Date: 06-MAR-23 12:19
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolved Organic Carbon "As Received"											
Dissolved Organic Carbon	Average	10.7	1.65	5.00	mg/L		5	TSM	03/16/23	1637 2399632	1
The following Prep M	lethods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	23	97540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 5310 B

1 51

## **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

Page 6 of 55 SDG: 613959

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

# Certificate of Analysis

Report Date: March 21, 2023

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: AF56411 Sample ID: 613959005 Matrix: Ground Water Collect Date: 06-MAR-23 11:08

Receive Date: 10-MAR-23 Client Collector:

SOOP00119 Project: Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Ar	alyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Organ	ic Carbon "A	As Received"								
Total Organic Carbon Average	e	4.17	0.330	1.00	mg/L		1 TS	M 03/21/23	0239 2397544	1
Spectrometric Analysis										
SM 4500-S(2-) D Sulfide "As Received"										
Total Sulfide	Н	59.2	3.30	10.0	mg/L		100 HF	2 03/14/23	1759 2397596	2
Titration and Ion Analys	sis									
SM 2320B Total Alkalin	nity "As Rec	eived"								
Alkalinity, Total as CaCO3		221	2.07	5.71	mg/L		EK	1 03/13/23	1426 2397768	3
Bicarbonate alkalinity (CaCO	3)	221	2.07	5.71	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L					
The following Analytic	al Methods v	vere performed:	•							

**Analyst Comments** 

Method Description SM 5310 B SM 4500-S (2-) D 2 SM 2320B

#### **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

Page 7 of 55 SDG: 613959

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56411
Sample ID: 613959006
Matrix: Ground Water
Collect Date: 06-MAR-23 11:08
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolve	d Organic Carbo										
Dissolved Organic Carbon	n Average	6.08	1.65	5.00	mg/L		5	TSM	03/16/23	1658 2399632	1
The following Prep N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	23	97540		

The following Analytical Methods were performed:

Method Description Analyst Comments

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

Page 8 of 55 SDG: 613959

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

# Certificate of Analysis

Report Date: March 21, 2023

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: AF56412
Sample ID: 613959007
Matrix: Ground Water
Collect Date: 06-MAR-23 15:15
Receive Date: 10-MAR-23

Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	PF DF Analyst Dat		Time Batch	Method
Carbon Analysis										
SM 5310 B Total Organ	nic Carbon "A	As Received"								
Total Organic Carbon Averag	e	2.81	0.330	1.00	mg/L		1 TS	M 03/21/23	0301 2397544	1
Spectrometric Analysis										
SM 4500-S(2-) D Sulfic	le "As Receiv	ved"								
Total Sulfide	UH	ND	0.825	2.50	mg/L		25 HI	H2 03/14/23	1759 2397596	2
Titration and Ion Analys	sis									
SM 2320B Total Alkali	nity "As Rec	eived"								
Alkalinity, Total as CaCO3	·	157	2.07	5.71	mg/L		Ek	1 03/13/23	1431 2397768	3
Bicarbonate alkalinity (CaCO	3)	157	2.07	5.71	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L					
The following Analytic	al Methods v	vere performed:								
Method		Analyst Comments								

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

Collector:

#### **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

Page 9 of 55 SDG: 613959

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

Certificate of Analysis

Report Date: March 21, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56412
Sample ID: 613959008
Matrix: Ground Water
Collect Date: 06-MAR-23 15:15
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Disso	lved Organic Car	rbon "As Received"									
Dissolved Organic Carbon Average 3.44			0.330	1.00	mg/L		1	TSM	03/20/23	1744 2399632	1
The following Pre	ep Methods were	performed:									
Method	Descript	ion		Analyst	Date		Time	Pı	rep Batch		
EPA 160	Laboratory	Filtration - DOC		TSM	03/15/23		1135	23	97540		
EPA 160	Laboratory	Filtration - DOC		TSM	03/17/23		1237	23	397540		

The following Analytical Methods were performed:

Method Description Analyst Comments

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

Page 10 of 55 SDG: 613959

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56413
Sample ID: 613959009
Matrix: Ground Water
Collect Date: 06-MAR-23 13:41
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average	J	0.895	0.330	1.00	mg/L		1	TSM	03/21/23	0323 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1924 2396527	2
Titration and Ion Analysis	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3		104	2.07	5.71	mg/L			EK1	03/13/23	1434 2397768	3
Bicarbonate alkalinity (CaCO3	)	104	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	l Methods v	vere performed:									

Method	Description	
1	SM 5310 B	
2	SM 4500-S (2-) D	
3	SM 2320B	

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56413
Sample ID: 613959010
Matrix: Ground Water
Collect Date: 06-MAR-23 13:41
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissol	ved Organic Carbo	on "As Received"								
Dissolved Organic Car	bon Average	1.61	0.330	1.00	mg/L		1	TSM 03/16/23	1740 2399632	1
The following Pre	p Methods were pe	erformed:								
Method	Description	1		Analyst	Date		Time	e Prep Batch	l	
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	2397540		

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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Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56430
Sample ID: 613959011
Matrix: Ground Water
Collect Date: 06-MAR-23 10:10
Receive Date: 10-MAR-23

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time B	atch	Method
Carbon Analysis												
SM 5310 B Total Organ	ic Carbon "A	As Received"										
Total Organic Carbon Averag	e	3.76	0.330	1.00	mg/L		1	TSM	03/21/23	0405 23	97544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfid	le "As Recei	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1924 23	96527	2
Titration and Ion Analys	sis											
SM 2320B Total Alkalii	nity "As Rec	eived"										
Alkalinity, Total as CaCO3	•	126	2.07	5.71	mg/L			EK1	03/13/23	1439 23	97768	3
Bicarbonate alkalinity (CaCO	3)	126	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							
The following Analytic	al Methods v	were performed:										
Method	Description	l			I	Analys	st Co	mment	s			

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

Collector:

#### **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

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56430
Sample ID: 613959012
Matrix: Ground Water
Collect Date: 06-MAR-23 10:10
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolved 0	Organic Carbo	on "As Received"								
Dissolved Organic Carbon A	verage	4.42	0.330	1.00	mg/L		1	TSM 03/16/23	1824 2399632	1
The following Prep Me	thods were pe	erformed:								
Method	Description	1		Analyst	Date		Time	e Prep Batch	ı	
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	2397540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56419
Sample ID: 613959013
Matrix: Ground Water
Collect Date: 07-MAR-23 14:51
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	e Batch	Method
Carbon Analysis												
SM 5310 B Total Organ	ic Carbon "A	As Received"										
Total Organic Carbon Average	•	10.6	0.330	1.00	mg/L		1	TSM	03/21/23	0427	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfid	e "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1925	2396527	2
Titration and Ion Analys	is											
SM 2320B Total Alkalir	nity "As Rec	eived"										
Alkalinity, Total as CaCO3	•	222	2.07	5.71	mg/L			EK1	03/13/23	1441	2397768	3
Bicarbonate alkalinity (CaCO3	3)	222	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							
The following Analytica	al Methods v	were performed:										
Method	Description	l			F	Analys	st Co	mment	S			

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### **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

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56419
Sample ID: 613959014
Matrix: Ground Water
Collect Date: 07-MAR-23 14:51
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolve	ed Organic Carbo	on "As Received"									
Dissolved Organic Carbon	n Average	8.47	0.330	1.00	mg/L		1	TSM	03/16/23	1846 2399632	1
The following Prep I	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	239	97540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 5310 B

5141 5510

#### **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

Project:

Client ID:

**Analyst Comments** 

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56425
Sample ID: 613959015
Matrix: Ground Water
Collect Date: 07-MAR-23 12:49
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	s Received"									
Total Organic Carbon Average		2.77	0.330	1.00	mg/L		1	TSM	03/21/23	0447 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	"As Receiv	/ed"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1907 2395803	2
Titration and Ion Analysi	S										
SM 2320B Total Alkalin	ity "As Rece	eived"									
Alkalinity, Total as CaCO3	-	183	2.07	5.71	mg/L			EK1	03/13/23	1444 2397768	3
Bicarbonate alkalinity (CaCO3)	)	183	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	l Methods v	vere performed:									

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56425 Sample ID: 613959016 Matrix: Ground Water Collect Date: 07-MAR-23 12:49

Receive Date: 10-MAR-23 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF .	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolv	ed Organic Carbo	on "As Received"								
Dissolved Organic Carbo	on Average	3.09	0.330	1.00	mg/L		1	TSM 03/16/23	1906 2399632	1
The following Prep	Methods were pe	rformed:								
Method	Description	l		Analyst	Date		Time	Prep Batch	ı	

EPA 160 Laboratory Filtration - DOC 03/15/23 TSM 1135 2397540

The following Analytical Methods were performed:

Method Description **Analyst Comments** SM 5310 B

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

Company: Santee Cooper P.O. Box 2946101 Address:

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56426 Sample ID: 613959017 Matrix: Ground Water Collect Date: 07-MAR-23 10:22 Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average		1.05	0.330	1.00	mg/L		1	TSM	03/21/23	0507 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/13/23	1907 2395803	3 2
Titration and Ion Analysi	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3	-	7.14	2.07	5.71	mg/L			EK1	03/13/23	1447 2397768	3
Bicarbonate alkalinity (CaCO3)	)	7.14	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	l Methods v	were performed:									

Method Description **Analyst Comments** SM 5310 B 2

SM 4500-S (2-) D

SM 2320B

## **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:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56426
Sample ID: 613959018
Matrix: Ground Water
Collect Date: 07-MAR-23 10:22
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissol Dissolved Organic Carl	~	on "As Received" 0.864	0.330	1.00	mg/L		1	TSM	03/16/23	1926 2399632	1
The following Prep	p Methods were pe	rformed:									
Method	Description	l		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fil	Itration - DOC		TSM	03/15/23		1135	23	97540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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Project:

Client ID:

**Analyst Comments** 

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56427
Sample ID: 613959019
Matrix: Ground Water
Collect Date: 07-MAR-23 10:27
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average	J	0.730	0.330	1.00	mg/L		1	TSM	03/21/23	0526 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	J	0.0420	0.0330	0.100	mg/L		1	HH2	03/14/23	1759 2397596	5 2
Titration and Ion Analys:	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3		10.3	2.07	5.71	mg/L			EK1	03/13/23	1450 2397768	3
Bicarbonate alkalinity (CaCO3	)	10.3	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	ıl Methods v	vere performed	d:								

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

SM 2320B

#### **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: March 21, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56427 Sample ID: 613959020 Matrix: Ground Water Collect Date: 07-MAR-23 10:27 Receive Date: 10-MAR-23

Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissol	ved Organic Carbo	n "As Received"									
Dissolved Organic Carl	oon Average J	0.950	0.330	1.00	mg/L		1	TSM	03/16/23	1947 2399632	1
The following Prep	Methods were pe	rformed:									
Method	Description			Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fil	tration - DOC		TSM	03/15/23		1135	23	97540		

EPA 160 Laboratory Filtration - DOC The following Analytical Methods were performed:

Method Description **Analyst Comments** 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

SQL: Sample Quantitation Limit MDC: Minimum Detectable Concentration

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Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56408
Sample ID: 613959021
Matrix: Ground Water
Collect Date: 08-MAR-23 13:38
Receive Date: 10-MAR-23

10-MAR-23 Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	ic Carbon "A	As Received"									
Total Organic Carbon Average	;	9.05	0.330	1.00	mg/L		1	TSM	03/21/23	0546 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759 2397596	2
Titration and Ion Analys	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3		481	2.07	5.71	mg/L			EK1	03/13/23	1456 2397768	3
Bicarbonate alkalinity (CaCO3	5)	481	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	al Methods v	vere performed:									
Method	Description	ļ			F	Analys	st Co	mment	s		

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

Collector:

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56408
Sample ID: 613959022
Matrix: Ground Water
Collect Date: 08-MAR-23 13:38
Receive Date: 10-MAR-23

Collector: Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average 7.68 0.330 1.00 mg/L 1 TSM 03/20/23 1806 2399632 1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration - DOC	TSM	03/15/23	1135	2397540
EPA 160	Laboratory Filtration - DOC	TSM	03/17/23	1237	2397540

The following Analytical Methods were performed:

Method Description Analyst Comments

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

Certificate of Analysis

Report Date: March 21, 2023

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: AF56415
Sample ID: 613959023
Matrix: Ground Water
Collect Date: 08-MAR-23 15:13
Receive Date: 10-MAR-23

Client

Client ID: SOOP001

Project:

SOOP00119

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Organ	ic Carbon "A	As Received"								
Total Organic Carbon Average	e	21.1	0.660	2.00	mg/L		2 TSM	03/21/23	0608 2397544	1
Spectrometric Analysis										
SM 4500-S(2-) D Sulfid	e "As Receiv	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	03/14/23	1759 2397596	2
Titration and Ion Analys	sis									
SM 2320B Total Alkalin	nity "As Rec	eived"								
Alkalinity, Total as CaCO3	•	322	2.07	5.71	mg/L		EK1	03/13/23	1507 2397768	3
Bicarbonate alkalinity (CaCO	3)	322	2.07	5.71	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L					
The following Analytic	al Methods v	were performed:								
Method	Description	l			F	Analys	st Commen	ts		

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

Collector:

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56415
Sample ID: 613959024
Matrix: Ground Water
Collect Date: 08-MAR-23 15:13
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Disso	lved Organic Carbo	n "As Received"								
Dissolved Organic Car	rbon Average	19.2	0.330	1.00	mg/L		1	TSM 03/16/23	2114 2399632	1
The following Pre	p Methods were pe	rformed:								
Method	Description			Analyst	Date		Time	Prep Batch		
EPA 160	Laboratory Fil	tration - DOC		TSM	03/15/23		1135	2397540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56416
Sample ID: 613959025
Matrix: Ground Water
Collect Date: 08-MAR-23 10:09

Receive Date: 10-MAR-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	nic Carbon "A	As Received"									
Total Organic Carbon Averag	e	10.1	0.330	1.00	mg/L		1	TSM	03/21/23	0708 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfic	le "As Recei	ved"									
Total Sulfide	J	0.0396	0.0330	0.100	mg/L		1	HH2	03/14/23	1759 2397596	2
Titration and Ion Analys	sis										
SM 2320B Total Alkali	nity "As Rec	eived"									
Alkalinity, Total as CaCO3	•	67.4	2.07	5.71	mg/L			EK1	03/13/23	1511 2397768	3
Bicarbonate alkalinity (CaCO	3)	67.4	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytic	al Methods v	were performed:									
Method	Description	1			1	Analys	st Co	mment	s		

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

#### **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: March 21, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56416
Sample ID: 613959026
Matrix: Ground Water
Collect Date: 08-MAR-23 10:09
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolv	ed Organic Carbo	on "As Received"								
Dissolved Organic Carbo	on Average	10.1	0.330	1.00	mg/L		1	TSM 03/16/23	2134 2399632	1
The following Prep	Methods were pe	erformed:								
Method	Description	1		Analyst	Date		Time	e Prep Batcl	1	
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	2397540		

EPA 160 Laboratory Filtration - DOC

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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Certificate of Analysis

Report Date: March 21, 2023

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: AF56417
Sample ID: 613959027
Matrix: Ground Water
Collect Date: 08-MAR-23 10:14
Receive Date: 10-MAR-23

Client

Client ID: SOOP001

SOOP00119

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organ	ic Carbon "A	As Received"										
Total Organic Carbon Average	e	10.5	0.330	1.00	mg/L		1	TSM	03/21/23	0750	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfid	e "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analys	sis											
SM 2320B Total Alkalir	nity "As Rece	eived"										
Alkalinity, Total as CaCO3	•	59.4	2.07	5.71	mg/L			EK1	03/13/23	1513	2397768	3
Bicarbonate alkalinity (CaCO3	3)	59.4	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							
The following Analytica	al Methods v	vere performed:										
Method	Description				F	Analys	st Co	mment	s			

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

Collector:

#### **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: March 21, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56417
Sample ID: 613959028
Matrix: Ground Water
Collect Date: 08-MAR-23 10:14

Receive Date: 10-MAR-23 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Disso	lved Organic Carbo	on "As Received"								
Dissolved Organic Car	rbon Average	10.7	0.330	1.00	mg/L		1	TSM 03/16/23	2216 2399632	1
The following Pre	p Methods were pe	erformed:								
Method	Description	1		Analyst	Date		Time	Prep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	2397540		
TEL C 11 . A	1 2 134 4 1	C 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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Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56429
Sample ID: 613959029
Matrix: Ground Water
Collect Date: 08-MAR-23 12:12
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	ic Carbon "A	s Received"										
Total Organic Carbon Average	;	2.31	0.330	1.00	mg/L		1	TSM	03/21/23	0810	2397544	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Receiv	ed"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759	2397596	2
Titration and Ion Analys	is											
SM 2320B Total Alkalin	ity "As Rece	eived"										
Alkalinity, Total as CaCO3		13.1	2.07	5.71	mg/L			EK1	03/13/23	1515	2397768	3
Bicarbonate alkalinity (CaCO3	5)	13.1	2.07	5.71	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L							
The following Analytica	al Methods v	vere performed:										
Method	Description				1	Analys	st Co	mment	ts			

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

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

Certificate of Analysis

Report Date: March 21, 2023

SOOP00119

SOOP001

Project:

Client ID:

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: AF56429
Sample ID: 613959030
Matrix: Ground Water
Collect Date: 08-MAR-23 12:12
Receive Date: 10-MAR-23

l Water

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF A	Analyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Disso	lved Organic Carb	oon "As Received"								
Dissolved Organic Car	rbon Average	2.22	0.330	1.00	mg/L		1 '	TSM 03/16/23	2236 2399632	1
The following Pre	ep Methods were p	erformed:								
Method	Description	on		Analyst	Date		Time	Prep Batch		
EPA 160	Laboratory I	Filtration - DOC		TSM	03/15/23		1135	2397540		
The fellowing A	andretinal Mathemata									

The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 SM 5310 B

#### **Notes:**

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56406
Sample ID: 613959031
Matrix: Ground Water
Collect Date: 09-MAR-23 10:29
Receive Date: 10-MAR-23

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	As Received"									
Total Organic Carbon Average	•	7.15	0.330	1.00	mg/L		1	TSM	03/21/23	0830 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfid	e "As Recei	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759 2397596	2
Titration and Ion Analys	is										
SM 2320B Total Alkalir	nity "As Rec	eived"									
Alkalinity, Total as CaCO3	J	5.43	2.07	5.71	mg/L			EK1	03/13/23	1518 2397768	3
Bicarbonate alkalinity (CaCO3	3) J	5.43	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytics	The following Analytical Methods were performed:										
Method		Analyst Comments									

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

Collector:

#### **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

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56406
Sample ID: 613959032
Matrix: Ground Water
Collect Date: 09-MAR-23 10:29
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Dissolve	ed Organic Carbo	on "As Received"										
Dissolved Organic Carbon	n Average	6.20	0.330	1.00	mg/L		1	TSM	03/16/23	2257 2	2399632	1
The following Prep M	Methods were pe	erformed:										
Method	Description	1		Analyst	Date		Time	e Pi	rep Batch			
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	23	97540			

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 21, 2023

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: AF56407 Sample ID: 613959033 Matrix: Ground Water Collect Date: 09-MAR-23 10:34 Receive Date: 10-MAR-23

Client

Project: Client ID: SOOP001

SOOP00119

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batc	h Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	As Received"									
Total Organic Carbon Average	•	7.16	0.330	1.00	mg/L		1	TSM	03/21/23	0850 23975	14 1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfid	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759 23975	96 2
Titration and Ion Analys	is										
SM 2320B Total Alkalir	nity "As Rec	eived"									
Alkalinity, Total as CaCO3	•	7.14	2.07	5.71	mg/L			EK1	03/13/23	1521 23977	58 3
Bicarbonate alkalinity (CaCO3	3)	7.14	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	The following Analytical Methods were performed:										
Method		Analyst Comments									

 $SM\ 5310\ B$ SM 4500-S (2-) D 2 SM 2320B

Collector:

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56407
Sample ID: 613959034
Matrix: Ground Water
Collect Date: 09-MAR-23 10:34
Receive Date: 10-MAR-23

Collector: Client

Parameter	Oualifier	Result	DL	RL	Units	PF	DF	Analyst Dat	e Time Bate	h Method
	Quanner	Result	DL	KL	Onts	11	DI	Anaryst Dat	c Time Batt	n wiemou
Carbon Analysis										
SM 5310 B Dissolv	ed Organic Carbo	on "As Received"								
Dissolved Organic Carbo	on Average	6.25	0.330	1.00	mg/L		1	TSM 03/16/	23 2317 23996	532 1
The following Prep	Methods were pe	erformed:								
Method	Description	1		Analyst	Date		Time	e Prep Bat	ch	
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	2397540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

Company: Santee Cooper P.O. Box 2946101 Address:

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF56418 Sample ID: 613959035 Matrix: Ground Water Collect Date: 09-MAR-23 12:07 Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF An	alyst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Total Organi	c Carbon "A	As Received"								
Total Organic Carbon Average		10.3	0.330	1.00	mg/L		1 TS	M 03/21/23	0910 2397544	1
Spectrometric Analysis										
SM 4500-S(2-) D Sulfide	e "As Recei	ved"								
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH	2 03/14/23	1759 2397596	2
Titration and Ion Analys:	is									
SM 2320B Total Alkalin	ity "As Rec	eived"								
Alkalinity, Total as CaCO3	-	32.0	2.07	5.71	mg/L		EK	1 03/13/23	1523 2397768	3
Bicarbonate alkalinity (CaCO3	)	32.0	2.07	5.71	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L					
The following Analytica	The following Analytical Methods were performed:									

Method Description **Analyst Comments** SM 5310 B SM 4500-S (2-) D 2

SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56418
Sample ID: 613959036
Matrix: Ground Water
Collect Date: 09-MAR-23 12:07
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolve	ed Organic Carbo	on "As Received"									
Dissolved Organic Carbo	n Average	10.1	0.330	1.00	mg/L		1	TSM	03/16/23	2337 2399632	. 1
The following Prep	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	23	97540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56422
Sample ID: 613959037
Matrix: Ground Water
Collect Date: 09-MAR-23 13:19
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	As Received"									
Total Organic Carbon Average	•	3.78	0.330	1.00	mg/L		1	TSM	03/21/23	0930 2397544	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfid	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	03/14/23	1759 2397596	2
Titration and Ion Analys	is										
SM 2320B Total Alkalin	nity "As Rec	eived"									
Alkalinity, Total as CaCO3	•	282	2.07	5.71	mg/L			EK1	03/13/23	1524 2397768	3
Bicarbonate alkalinity (CaCO3	3)	282	2.07	5.71	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	2.07	5.71	mg/L						
The following Analytica	The following Analytical Methods were performed:										
Method		Analyst Comments									

1 SM 5310 B 2 SM 4500-S (2-) D 3 SM 2320B

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

Certificate of Analysis

Project:

Client ID:

Report Date: March 21, 2023

SOOP00119

SOOP001

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: AF56422
Sample ID: 613959038
Matrix: Ground Water
Collect Date: 09-MAR-23 13:19
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Dissolved	l Organic Carbo	on "As Received"									
Dissolved Organic Carbon	Average	2.90	0.330	1.00	mg/L		1	TSM	03/16/23	2357 239963	2 1
The following Prep M	lethods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e Pr	ep Batch		
EPA 160	Laboratory Fi	ltration - DOC		TSM	03/15/23		1135	23	97540		

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1SM 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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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 21, 2023

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Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

**Contact:** Ms. Jeanette Gilmetti

Workorder: 613959

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Carbon Analysis Batch 2397544											
QC1205343816 613959001 DUP Total Organic Carbon Average		8.36		8.18	mg/L	2.15 ^		(+/-2.00)	TSM	03/21/2	23 01:34
QC1205343817 613959023 DUP Total Organic Carbon Average		21.1		21.1	mg/L	0.104		(0%-20%)		03/21/2	23 06:28
QC1205343815 LCS Total Organic Carbon Average	10.0			9.96	mg/L		99.6	(80%-120%)		03/21/2	23 00:38
QC1205343814 MB Total Organic Carbon Average			U	ND	mg/L					03/21/2	23 00:28
QC1205343818 613959001 PS Total Organic Carbon Average	10.0	4.18		13.4	mg/L		92.5	(65%-120%)		03/21/2	23 01:56
QC1205343819 613959023 PS Total Organic Carbon Average	10.0	10.5		22.1	mg/L		116	(65%-120%)		03/21/2	23 06:48
Batch 2399632 ———											
QC1205343804 613959002 DUP Dissolved Organic Carbon Average		8.18		8.04	mg/L	1.78 ^		(+/-2.00)	TSM	03/20/2	23 17:01
QC1205343805 613959022 DUP Dissolved Organic Carbon Average		7.68		7.55	mg/L	1.75		(0%-20%)		03/20/2	23 18:29
QC1205343803 FB Dissolved Organic Carbon Average			U	ND	mg/L					03/16/2	23 15:12
Dissolved Organic Carbon Average			U	ND	mg/L					03/20/2	23 16:29

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# QC Summary

Workorder: 613959 Page 2 of 5 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Carbon Analysis 2399632 Batch QC1205347787 LCS 9.94 mg/L 99.4 (80%-120%) TSM 03/16/23 15:23 Dissolved Organic Carbon Average 10.0 QC1205347786 MB U ND 03/16/23 15:02 Dissolved Organic Carbon Average mg/L QC1205343806 613959002 PS 4.09 4.49 3.98\* (65%-120%) 03/20/23 17:23 Dissolved Organic Carbon Average 10.0 mg/L QC1205343807 613959022 PS 10.0 7.68 12.2 45.7\* (65%-120%) 03/20/23 18:51 Dissolved Organic Carbon Average mg/L Spectrometric Analysis Batch 2395803 QC1205340625 LCS 0.400 0.403 101 HH2 03/13/23 19:07 Total Sulfide mg/L (85%-115%) QC1205340624 MBU Total Sulfide ND mg/L 03/13/23 19:07 QC1205343956 613152021 PS ND 0.437 Total Sulfide 0.400 U mg/L 109 (75%-125%) 03/13/23 19:07 QC1205343957 613152021 PSD Total Sulfide 0.400 U ND 0.438109 03/13/23 19:07 mg/L 0.266(0%-15%) Batch 2396527 OC1205341655 LCS 0.403 mg/LTotal Sulfide 0.400 101 (85%-115%) HH2 03/13/23 19:24 QC1205341654 MB Total Sulfide U ND 03/13/23 19:24 mg/L

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# **QC** Summary

Workorder: 613959 Page 3 of 5 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Spectrometric Analysis Batch 2396527 QC1205344918 613959009 PS ND 0.400 U 0.403 100 HH2 03/13/23 19:24 Total Sulfide mg/L (75%-125%) QC1205344919 613959009 PSD ND 0.402 Total Sulfide 0.400 U mg/L 0.289 100 (0%-15%)03/13/23 19:25 Batch 2397596 QC1205343969 LCS 0.404 Total Sulfide 0.400 101 (85%-115%) HH2 03/14/23 17:59 mg/L OC1205343968 MB U ND 03/14/23 17:59 Total Sulfide mg/L QC1205343970 613959019 PS Total Sulfide 0.400 J 0.0420 0.423 mg/L 95.2 (75%-125%) 03/14/23 17:59 QC1205345470 613959033 PS 59.7\* Total Sulfide 0.400 U ND 0.247 mg/L (75%-125%) 03/14/23 17:59 QC1205343971 613959019 PSD mg/L Total Sulfide 0.400 J 0.0420 0.425 0.549 95.8 (0%-15%)03/14/23 17:59 QC1205345471 613959033 PSD Total Sulfide 0.400 U ND 0.250 mg/L 1.4 60.5 \* (0%-15%)03/14/23 17:59 Titration and Ion Analysis 2397768 Batch QC1205344345 613959001 DUP Alkalinity, Total as CaCO3 344 344 mg/L 0.0969 (0%-20%)EK1 03/13/23 14:11 Bicarbonate alkalinity (CaCO3) 344 344 mg/L 0.0969 (0%-20%)U ND ND Carbonate alkalinity (CaCO3) U mg/L N/A

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# QC Summary

Workorder: 613959 Page 4 of 5 **Parmname** NOM Sample Qual **OC** Units RPD% REC% Range Anlst Date Time **Titration and Ion Analysis** Batch 2397768 QC1205344347 613959021 DUP 481 482 Alkalinity, Total as CaCO3 mg/L 0.238 (0%-20%)EK1 03/13/23 15:00 Bicarbonate alkalinity (CaCO3) 481 482 mg/L 0.238 (0%-20%)U ND U ND Carbonate alkalinity (CaCO3) mg/L N/A QC1205344344 LCS 100 106 mg/L 106 Alkalinity, Total as CaCO3 (90%-110%) 03/13/23 14:04 QC1205344346 613959001 MS Alkalinity, Total as CaCO3 167 344 513 mg/L 102 (80%-120%) 03/13/23 14:15 QC1205344348 613959021 MS

595

mg/L

80.4

(80%-120%)

03/13/23 15:04

#### Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

143

J Value is estimated

Alkalinity, Total as CaCO3

- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

481

- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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# QC Summary

Workorder: 613959

Parmname

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

N1 See case narrative

- 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.
- B The target analyte was detected in the associated blank.
- 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
- J See case narrative for an explanation

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.

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# General Chemistry Technical Case Narrative Santee Cooper SDG #: 613959

**Product: Carbon, Total Organic Analytical Method:** SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

**Analytical Batch:** 2397544

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

<b>GEL Sample ID#</b>	Client Sample Identification
613959001	AF56409
613959003	AF56410
613959005	AF56411
613959007	AF56412
613959009	AF56413
613959011	AF56430
613959013	AF56419
613959015	AF56425
613959017	AF56426
613959019	AF56427
613959021	AF56408
613959023	AF56415
613959025	AF56416
613959027	AF56417
613959029	AF56429
613959031	AF56406
613959033	AF56407
613959035	AF56418
613959037	AF56422
1205343814	Method Blank (MB)
1205343815	Laboratory Control Sample (LCS)
1205343816	613959001(AF56409) Sample Duplicate (DUP)
1205343817	613959023(AF56415) Sample Duplicate (DUP)
1205343818	613959001(AF56409) Post Spike (PS)
1205343819	613959023(AF56415) Post Spike (PS)

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**

## **Sample Dilutions**

The following samples 1205343817 (AF56415DUP), 1205343819 (AF56415PS) and 613959023 (AF56415) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205343816 (AF56409DUP), 1205343818 (AF56409PS), 613959001 (AF56409) and 613959003 (AF56410) in

Page 46 of 55 SDG: 613959

this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Amalanta	613959						
Analyte	001	003	023				
Total Organic Carbon Average	2X	2X	2X				

**Product: Carbon, Dissolved Organic Analytical Method:** SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

**Analytical Batch:** 2399632

**Filtration Method:** EPA 160

Filtration Procedure: GL-LB-E-034 REV# 4

**Filtration Batch:** 2397540

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

<b>GEL Sample ID#</b>	Client Sample Identification
613959002	AF56409
613959004	AF56410
613959006	AF56411
613959008	AF56412
613959010	AF56413
613959012	AF56430
613959014	AF56419
613959016	AF56425
613959018	AF56426
613959020	AF56427
613959022	AF56408
613959024	AF56415
613959026	AF56416
613959028	AF56417
613959030	AF56429
613959032	AF56406
613959034	AF56407
613959036	AF56418
613959038	AF56422
1205343803	Foam Blank (FB)
1205343804	613959002(AF56409) Sample Duplicate (DUP)
1205343805	613959022(AF56408) Sample Duplicate (DUP)
1205343806	613959002(AF56409 ) Post Spike (PS)
1205343807	613959022(AF56408) Post Spike (PS)
1205347786	Method Blank (MB)
1205347787	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

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procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

#### **Quality Control (QC) Information**

#### Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Dissolved Organic Carbon Average	1205343806 (AF56409 PS)	3.98* (65%-120%)
	1205343807 (AF56408PS)	45.7* (65%-120%)

Both QC's was rerun to verify recoveries.

Sample	Analyte	Value			
1205343806 (AF56409 PS)	Dissolved Organic Carbon Average	3.98* (65%-120%)			
1205343807 (AF56408PS)	Dissolved Organic Carbon Average	45.7* (65%-120%)			

#### **Miscellaneous Information**

#### **Additional Comments**

The following sample was reanalyzed neat. 613959008 (AF56412).

**Product:** Sulfide, Total

**Analytical Method:** SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2395803

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

<b>GEL Sample ID#</b>	Client Sample Identification
613959015	AF56425
613959017	AF56426
1205340624	Method Blank (MB)
1205340625	Laboratory Control Sample (LCS)
1205343956	613152021(NonSDG) Post Spike (PS)
1205343957	613152021(NonSDG) Post Spike Duplicate (PSD)

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:** Sulfide, Total

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Analytical Method: SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2396527

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

GEL Sample ID#	Client Sample Identification
613959009	AF56413
613959011	AF56430
613959013	AF56419
1205341654	Method Blank (MB)
1205341655	Laboratory Control Sample (LCS)
1205344918	613959009(AF56413) Post Spike (PS)
1205344919	613959009(AF56413) Post Spike Duplicate (PSD)

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:** Sulfide, Total

Analytical Method: SM 4500-S (2-) D

**Analytical Procedure:** GL-GC-E-052 REV# 12

**Analytical Batch:** 2397596

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

GEL Sample ID#	<b>Client Sample Identification</b>
613959001	AF56409
613959003	AF56410
613959005	AF56411
613959007	AF56412
613959019	AF56427
613959021	AF56408
613959023	AF56415
613959025	AF56416
613959027	AF56417
613959029	AF56429
613959031	AF56406
613959033	AF56407
613959035	AF56418
613959037	AF56422
1205343968	Method Blank (MB)
1205343969	Laboratory Control Sample (LCS)
1205343970	613959019(AF56427) Post Spike (PS)
1205343971	613959019(AF56427) Post Spike Duplicate (PSD)
1205345470	613959033(AF56407) Post Spike (PS)
1205345471	613959033(AF56407) Post Spike Duplicate (PSD)

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**

#### Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205345470 (AF56407PS)	59.7* (75%-125%)
	1205345471 (AF56407PSD)	60.5* (75%-125%)

#### **Technical Information**

#### **Holding Times**

Samples 613959001 (AF56409), 613959003 (AF56410), 613959005 (AF56411) and 613959007 (AF56412) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of diluted samples. The data is qualified.

#### **Sample Dilutions**

The following samples 613959001 (AF56409), 613959003 (AF56410) and 613959005 (AF56411) were diluted because target analyte concentrations exceeded the calibration range. The following sample 613959007 (AF56412) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Amalasta	613959								
Analyte	001	003	005	007					
Total Sulfide	400X	200X	100X	25X					

**Product:** Alkalinity

**Analytical Method:** SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

**Analytical Batch:** 2397768

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

GEL Sample ID#	Client Sample Identification
613959001	AF56409
613959003	AF56410
613959005	AF56411
613959007	AF56412
613959009	AF56413
613959011	AF56430
613959013	AF56419
613959015	AF56425

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613959017	AF56426
613959019	AF56427
613959021	AF56408
613959023	AF56415
613959025	AF56416
613959027	AF56417
613959029	AF56429
613959031	AF56406
613959033	AF56407
613959035	AF56418
613959037	AF56422
1205344344	Laboratory Control Sample (LCS)
1205344345	613959001(AF56409) Sample Duplicate (DUP)
1205344346	613959001(AF56409) Matrix Spike (MS)
1205344347	613959021(AF56408) Sample Duplicate (DUP)
1205344348	613959021(AF56408) Matrix Spike (MS)

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**

35 mL aliquots were used due to sample concentration

#### **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.

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Contract Lab Info: GEL

\_ Controct Lab Due Date (Lab Only):\_

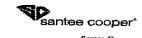
## **Chain of Custody**



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

Customer Email/Report Recipient:		Da	Date Results Needed by:					Project/Task/Unit #:						for ar	ıy fla	ggeo	l QC		
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# **Chain of Custody**



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

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□ Ca	5 P. 18		O.V	PIDNO			□ Dissolved			645	din	RUIE			XRF Scan	NPC		Ý			
□ Co	图内学员 基次等等	11.77.7	D Zn	E SO			☐ Rad 226 ☐ Rad 228			ill (C					HGI! Fineness	Efonoto			94.30	HV I	
	25 32 5 32 30 3	~	□ Hg	97.53 34.70			O PCB			5165 1916 1916 1917 1918		(St)			Particulate M	after to Purchase		) (e(e)	1012		
الحد س	Cr DP6 CrVI					e specify the e	<u> </u>	<b>⊥</b> [88				er na						3000	in the same	/ALA	

Client: Received	By Stan & Boons	<u>ں</u> 			Received: Mach 10, 2023
COLUMN	Anna Johnson				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Car	rier and Tracking Number				
Suspecte	d Hazard Information	Yes	ž	*If N	let Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shippe	ed as a DOT Hazardous?		1	Haza	rd Class Shipped:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) Did th	ne client designate the samples are to be as radioactive?		/	l	notation or radioactive stickers on containers equal client designation.
C) Did-tl radioacti	ne RSO classify the samples as ve?			Max	imum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did t	he client designate samples are hazardous?		/	IFD	notation or hazard labels on containers equal client designation.  or B is yes, select Hazards below.
E) Did t	he RSO identify possible hazards?	Ŀ			PGB's Flammable Foreign Soil RCRA Asbestos Berytiium Other;
	Sample Receipt Criteria	Yes	N.	윋	Comments/Qualifiers (Required for Non-Conforming Items)  Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
l sea	ipping containers received intact and aled?	/		-	Circle Applicable: Client contacted and provided COC COC created upon receipt
	nain of custody documents included th shipment?	/		Mu	3.1411.2 Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: 20.3
wi	mples requiring cold preservation thin (0 ≤ 6 deg. C)?*	1	1	9	Temperature Device Script #:
4 ten	aily check performed and passed on IR mperature gun?	<u> /</u>			Secondary Temperature Device Scrial # (If Applicable)?  Circle Applicable: Scals broken Damaged container Leaking container Other (describe)
1 1	imple containers intact and scaled?	1		_	Sample ID's and Containers Affected:
6 Sa	amples requiring chemical preservation proper pH?	/		2	If Preservation added, Let#:  If Yes, or Precess or Soil Kits present for solids? Yes No. NA (If yes, take to VOA Freezer)
7	Do any samples require Volatile Analysis?			/	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 S	amples received within holding time?	/	,		ID's and tests affected:
9 S	ample ID's on COC match ID's on ottles?			/	1D's and containers affected:  Circle Applicable: No dates on containers  No times on containers  COC missing info  Other (describe)
10 0	Date & time on COC match date & time n bottles?				Circle Applicable: No container count on COC Other (describe)
11   <sub>n</sub>	Number of containers received match number indicated on COC?	/			Chick Application, 100 on the chick and the
13 0	are sample containers identifiable as SEL provided by use of GEL labels? SOC form is properly signed in elinquished/received sections?		/	and the second	Circle Applicable: Not relinquished Other (describe)
Comm	correct (hand	) / }-	2	8. N	container says WAP-8dates/times Hen sample ID)

List of current GEL Certifications as of 21 March 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 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
Vermont Virginia NELAP	460202
	C780
Washington	C/80





gel.com

April 11, 2023

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

Re: ABS Lab Analytical Work Order: 613963

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 10, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Sample ID on the container did not match the sample ID on the Chain of Custody. 613963015(AF56429).

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

ther Millar

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 613963 GEL Work Order: 613963

#### 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

Page 2 of 32 SDG: 613963

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

Certificate of Analysis

Project:

Client ID:

Report Date: April 11, 2023

LXP1 04/11/23 0819 2402018

2

3

SOOP00119

SOOP001

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: AF56409
Sample ID: 613963001
Matrix: Ground Water
Collect Date: 06-MAR-23 12:14
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Prop	portional Counting	Ţ,								
GFPC, Ra228, Liq	uid "As Received"	1								
Radium-228		2.18	+/-1.16	1.68	3.00	pCi/L		JE1 04/04/23	1245 2402066	1
Radium-226+Radi	um-228 Calculatio	n "See Pa	arent Products"							

1.00

pCi/L

Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum 3.15 +/-1.26 pCi/L NXL1 04/11/23 1121 2402065

Rad Radium-226

0.366

Radium-226 0.971 +/-0.495
The following Analytical Methods were performed:

Lucas Cell, Ra226, Liquid "As Received"

MethodDescriptionAnalyst Comments1EPA 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" 72.3 (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

Page 3 of 32 SDG: 613963

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

Certificate of Analysis

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

10-MAR-23

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56410
Sample ID: 613963002
Matrix: Ground Water
Collect Date: 06-MAR-23 12:19

Collector: Client

Receive Date:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting	5								
GFPC, Ra228, Liquid '	'As Received'	Ì								
Radium-228		1.73	+/-0.952	1.36	3.00	pCi/L		JE1 04/04/23	1245 2402066	1
Radium-226+Radium-2	228 Calculation	n "See Pa	arent Products"							
Radium-226+228 Sum		2.14	+/-1.01			pCi/L		NXL1 04/11/23	1121 2402065	2
Rad Radium-226										
Lucas Cell, Ra226, Liq	uid "As Recei	ved"								
Radium-226	U	0.405	+/-0.330	0.406	1.00	pCi/L		LXP1 04/11/23	0819 2402018	3
The following Analytic	cal Methods v	vere perfo	ormed:							
Method	Description					I	Analy	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery 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

Page 4 of 32 SDG: 613963

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

Certificate of Analysis

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56411
Sample ID: 613963003
Matrix: Ground Water
Collect Date: 06-MAR-23 11:08

Receive Date: 10-MAR-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	Ţ,									
GFPC, Ra228, Liquid	"As Received"	1									
Radium-228	U	0.627	+/-1.16	2.05	3.00	pCi/L		JE1	04/04/23	1245 2402066	1
Radium-226+Radium	-228 Calculation	n "See Pa	rent Products"								
Radium-226+228 Sum		1.30	+/-1.23			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Recei	ved"									
Radium-226	_	0.673	+/-0.404	0.395	1.00	pCi/L		LXP1	04/11/23	0819 2402018	3
The following Analy	tical Methods w	vere perfo	rmed:								

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" 64 (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

Page 5 of 32 SDG: 613963

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56412
Sample ID: 613963004
Matrix: Ground Water
Collect Date: 06-MAR-23 15:15
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.54	+/-1.09	1.65	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		5.48	+/-1.52			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		3.95	+/-1.06	0.613	1.00	pCi/L		LXP1	04/11/23	0819 2402018	3
The following Analytic	eal Methods w	ere perfo	ormed:								

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 61.5 (15%-125%)

#### **Notes:**

Method

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

Page 6 of 32 SDG: 613963

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Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56413
Sample ID: 613963005
Matrix: Ground Water
Collect Date: 06-MAR-23 13:41
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	- )									
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.35	+/-1.31	2.15	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		3.49	+/-1.49			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.14	+/-0.717	0.503	1.00	pCi/L		LXP1	04/11/23	0819 2402018	3
The following Analytic	al Methods w	zere perfo	ormed:								

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 65.8 (15%-125%)

#### Notes:

Method

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

Page 7 of 32 SDG: 613963

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Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56430 Sample ID: 613963006 Matrix: Ground Water Collect Date: 06-MAR-23 10:10

Receive Date: 10-MAR-23 Client

Description

Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst I	Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "	As Received"										
Radium-228		2.88	+/-1.61	2.36	3.00	pCi/L		JE1 04	04/23	1246 2402066	1
Radium-226+Radium-2	228 Calculatio	n "See P	arent Products"								
Radium-226+228 Sum		3.38	+/-1.64			pCi/L		NXL1 04	11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.499	+/-0.350	0.343	1.00	pCi/L		LXP1 04	11/23	0819 2402018	3
The following Analytic	cal Methods w	ere perfo	ormed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer 55.3 (15%-125%) GFPC, Ra228, Liquid "As Received"

Method

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

Page 8 of 32 SDG: 613963

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

Certificate of Analysis

Report Date: April 11, 2023

SOOP00119

Company: Santee Cooper P.O. Box 2946101 Address:

OCO<sub>3</sub>

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56419 Sample ID: 613963007 Matrix: Ground Water Collect Date: 07-MAR-23 14:51 Receive Date: 10-MAR-23

Collector: Client

Client ID: SOOP001

Project:

**Analyst Comments** 

MDC RL Parameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.89 +/-1.13 1.72 3.00 pCi/L JE1 04/04/23 1246 2402066 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 2.70 +/-1.24pCi/L NXL1 04/11/23 1121 2402065 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 +/-0.511 0.606 1.00 pCi/L LXP1 04/11/23 0819 2402018 3 The following Analytical Methods were performed:

Method Description

EPA 904.0/SW846 9320 Modified 2 Calculation

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

Certificate of Analysis

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56425
Sample ID: 613963008
Matrix: Ground Water
Collect Date: 07-MAR-23 12:49
Receive Date: 10-MAR-23

Receive Date: 10-MA
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	-0.250	+/-0.593	1.24	3.00	pCi/L		JE1 04	04/04/23	1246 2402066	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		0.520	+/-0.729			pCi/L		NXL1 04	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226	U	0.520	+/-0.424	0.550	1.00	pCi/L		LXP1 04	04/11/23	0819 2402018	3
The following Analytic	al Methods w	ere perfo	ormed:								

Method	Description	Analyst Comments
1	EBA 004 0/SW846 0320 Modified	•

EPA 904.0/SW846 9320 Modified
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

Page 10 of 32 SDG: 613963

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

Certificate of Analysis

Report Date: April 11, 2023

SOOP00119

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Client

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF56426
Sample ID: 613963009
Matrix: Ground Water
Collect Date: 07-MAR-23 10:22
Receive Date: 10-MAR-23

009 Client ID: SOOP001

Water

Project:

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	-1.31	+/-1.21	2.50	3.00	pCi/L		JE1	04/04/23	1246 240206	6 1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		0.567	+/-1.28			pCi/L		NXL1	04/11/23	1121 240206	5 2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.567	+/-0.398	0.390	1.00	pCi/L		LXP1	04/11/23	0854 240201	8 3

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 68.3 (15%-125%)

#### **Notes:**

Method

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

Column headers are defined as follows:

Collector:

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

Page 11 of 32 SDG: 613963

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

Certificate of Analysis

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56427 Sample ID: 613963010 Matrix: Ground Water Collect Date: 07-MAR-23 10:27 Receive Date: 10-MAR-23

Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid "	'As Received'	1									
Radium-228	U	0.0970	+/-0.674	1.31	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-2	228 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		1.05	+/-0.832			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		0.958	+/-0.488	0.361	1.00	pCi/L		LXP1	04/11/23	0854 2402018	3
The following Analytic	cal Methods w	ere perfo	ormed:								

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

EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Result	Nommai	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.7	(15%-125%)

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

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56408
Sample ID: 613963011
Matrix: Ground Water
Collect Date: 08-MAR-23 13:38
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5								
GFPC, Ra228, Liquid ".	As Received"	1								
Radium-228	U	0.311	+/-0.884	1.62	3.00	pCi/L		JE1 04/04/2	3 1246 2402066	1
Radium-226+Radium-2	28 Calculatio	n "See P	arent Products"							
Radium-226+228 Sum		1.84	+/-1.08			pCi/L		NXL1 04/11/2	3 1121 2402065	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		1.53	+/-0.619	0.431	1.00	pCi/L		LXP1 04/11/2	3 0854 2402018	3
The following Analytic	al Methods w	ere perfo	ormed:							

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"

70.7 (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

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Certificate of Analysis

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56415
Sample ID: 613963012
Matrix: Ground Water
Collect Date: 08-MAR-23 15:13
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.63	+/-1.08	1.65	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.33	+/-1.29			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.69	+/-0.717	0.572	1.00	pCi/L		LXP1	04/11/23	0854 2402018	3
The following Analytic	eal Methods w	ere perfo	ormed:								

The following Analytical Methods were performed:

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

2 Calculation
3 EPA 903.1 Modified

Surrogate/Tracer RecoveryTestResultNominalRecovery%Acceptable LimitsBarium-133 TracerGFPC, 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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Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56416
Sample ID: 613963013
Matrix: Ground Water
Collect Date: 08-MAR-23 10:09

Receive Date: 10-MAR-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting	3									
GFPC, Ra228, Liquid	"As Received"	'									
Radium-228	U	0.331	+/-0.898	1.61	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-	-228 Calculation	on "See Pa	arent Products"								
Radium-226+228 Sum		0.476	+/-0.942			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Lic	quid "As Rece	ived"									
Radium-226	U	0.145	+/-0.285	0.545	1.00	pCi/L		LXP1	04/11/23	0854 2402018	3
The following Analyti	ical Methods v	vere nerfo	rmed·								

The following Analytical Methods were performed:

Description

1 E	EPA 904.0/SW846 9320 Modified				
2 C	Calculation				
3 E	EPA 903.1 Modified				
Surrogate/Tracer Recovery	y Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 88.6 (15%-125%)

#### Notes:

Method

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

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56417 Sample ID: 613963014 Matrix: Ground Water 08-MAR-23 10:14 Collect Date: Receive Date: 10-MAR-23

Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting										
GFPC, Ra228, Liquid '	'As Received"										
Radium-228		2.50	+/-1.09	1.51	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.19	+/-1.18			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		0.690	+/-0.459	0.562	1.00	pCi/L		LXP1	04/11/23	0854 2402018	3
The following Analytic	The following Analytical Methods were performed:										
Method	Description					I	Analys	st Comment	5		

1	EPA 904.0/SW846 9320 Modified		-		
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	erv Test	Result	Nominal	Recoverv%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 89.6 (15%-125%)

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: April 11, 2023

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: AF56429 Sample ID: 613963015 Matrix: Ground Water Collect Date: 08-MAR-23 12:12 Receive Date: 10-MAR-23

Client

Client ID: SOOP001

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date Ti	me Batch	Method
Rad Gas Flow Proportion	onal Counting	5								
GFPC, Ra228, Liquid "	As Received"	1								
Radium-228		3.39	+/-1.22	1.54	3.00	pCi/L		JE1 04/04/23 12	46 2402066	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		3.97	+/-1.29			pCi/L		NXL1 04/11/23 11	21 2402065	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		0.578	+/-0.409	0.483	1.00	pCi/L		LXP1 04/11/23 08	354 2402018	3
The following Analytic	The following Analytical Methods were performed:									
Method	Description					I	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

78.1 Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%)

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

Column headers are defined as follows:

Collector:

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

Project:

Client ID:

**Analyst Comments** 

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56406
Sample ID: 613963016
Matrix: Ground Water
Collect Date: 09-MAR-23 10:29
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	5									
GFPC, Ra228, Liquid	"As Received"	1									
Radium-228	U	0.757	+/-0.814	1.35	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.81	+/-0.979			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Lie	quid "As Recei	ved"									
Radium-226		1.06	+/-0.544	0.508	1.00	pCi/L		LXP1	04/11/23	0854 2402018	3
The following Analyt	ical Methods w	zere perfo	ormed:								

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified		•		
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recoverv%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" Result Normal Recovery Acceptable Limit Result Normal Recovery 84.9 (15%-125%)

#### Notes:

Method

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

Project:

Client ID:

**Analyst Comments** 

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56407
Sample ID: 613963017
Matrix: Ground Water
Collect Date: 09-MAR-23 10:34
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting	5									
GFPC, Ra228, Liquid '	'As Received'	1									
Radium-228	U	0.0962	+/-1.20	2.19	3.00	pCi/L		JE1	04/04/23	1246 2402066	1
Radium-226+Radium-2	228 Calculation	n "See Pa	rent Products"								
Radium-226+228 Sum		1.39	+/-1.35			pCi/L		NXL1	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	juid "As Recei	ved"									
Radium-226		1.29	+/-0.623	0.554	1.00	pCi/L		LXP1	04/11/23	0930 2402018	3
The following Analytic	cal Methods w	zere perfo	rmed:								

The following Analytical Methods were performed:

Description

I	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 79.8 (15%-125%)

#### Notes:

Method

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

Project:

Client ID:

Report Date: April 11, 2023

SOOP00119

SOOP001

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: AF56418
Sample ID: 613963018
Matrix: Ground Water
Collect Date: 09-MAR-23 12:07
Receive Date: 10-MAR-23

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	0.0769	+/-0.950	1.77	3.00	pCi/L		JE1 0-	04/04/23	1246 2402066	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.17	+/-1.09			pCi/L		NXL1 0	04/11/23	1121 2402065	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.09	+/-0.528	0.499	1.00	pCi/L		LXP1 0	04/11/23	0930 2402018	3
The following Analytical Methods were performed:											
Method	Description					1	Analys	st Comments			

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 81.2 (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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Certificate of Analysis

Report Date: April 11, 2023

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: AF56422
Sample ID: 613963019
Matrix: Ground Water
Collect Date: 09-MAR-23 13:19
Receive Date: 10-MAR-23

Client

Client ID: SOOP001

**Analyst Comments** 

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.992	+/-0.901	1.45	3.00	pCi/L		JE1	04/04/23	1247 2402066	5 1
Radium-226+Radium-2	28 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		2.31	+/-1.07			pCi/L		NXL1	04/11/23	1121 2402065	5 2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.32	+/-0.571	0.464	1.00	pCi/L		LXP1	04/11/23	0930 2402018	3
The following Analytic	al Methods w	ere perfo	rmed:								

1 E	PA 904.0/SW846 9320 Modified				
2 C	alculation				
3 E	PA 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.8	(15%-125%)

#### Notes

Method

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

Column headers are defined as follows:

Collector:

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

Description

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

QC Summary

Report Date: April 11, 2023

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

**Contact:** Ms. Jeanette Gilmetti

Workorder: 613963

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range A	Anlst	Date Tir	ne_
Rad Gas Flow Batch 2402066	5												
QC1205352839 6139 Radium-228	963001	DUP	Uncertainty	2.18 +/-1.16	U	1.38 +/-1.13	pCi/L	45.2		(0% - 100%)	JE1	04/04/23 12	2:45
QC1205352840 L Radium-228	.CS		81.6 Uncertainty			77.8 +/-4.42	pCi/L		95.3	(75%-125%)		04/04/23 12	2:45
QC1205352838 M Radium-228	ИΒ		Uncertainty		U	0.382 +/-0.779	pCi/L					04/04/23 12	2:45
<b>Rad Ra-226</b> Batch 2402018	3												
QC1205352737 6139 Radium-226	963001	DUP	Uncertainty	0.971 +/-0.495		0.957 +/-0.511	pCi/L	1.4		(0% - 100%)	LXP1	04/11/23 09	9:30
QC1205352739 L Radium-226	LCS		26.4 Uncertainty			22.4 +/-2.39	pCi/L		84.9	(75%-125%)		04/11/23 09	9:30
QC1205352736 M Radium-226	ИΒ		Uncertainty		U	0.253 +/-0.405	pCi/L					04/11/23 09	9:30
QC1205352738 6139 Radium-226	963001	MS	132 Uncertainty	0.971 +/-0.495		101 +/-10.7	pCi/L		75.9	(75%-125%)		04/11/23 09	9:30

#### Notes:

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

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### **QC** Summary

Workorder: 613963

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

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M If above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

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#### Radiochemistry **Technical Case Narrative Santee Cooper** SDG #: 613963

**Product:** GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2402066

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

GEL Sample ID#	Client Sample Identification
613963001	AF56409
613963002	AF56410
613963003	AF56411
613963004	AF56412
613963005	AF56413
613963006	AF56430
613963007	AF56419
613963008	AF56425
613963009	AF56426
613963010	AF56427
613963011	AF56408
613963012	AF56415
613963013	AF56416
613963014	AF56417
613963015	AF56429
613963016	AF56406
613963017	AF56407
613963018	AF56418
613963019	AF56422
1205352838	Method Blank (MB)
1205352839	613963001(AF56409) Sample Duplicate (DUP)
1205352840	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.

#### **Preparation Information**

#### **Homogenous Matrix**

Samples 613963012 (AF56415), 613963013 (AF56416), 613963014 (AF56417), 613963016 (AF56406), 613963017 (AF56407) and 613963018 (AF56418) were non-homogenous matrix. yellow tint 613963012 (AF56415), 613963013 (AF56416), 613963014 (AF56417), 613963016 (AF56406), 613963017 (AF56407) and 613963018 (AF56418).

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**Product:** Lucas Cell, Ra226, Liquid **Analytical Method:** EPA 903.1 Modified

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

**Analytical Batch:** 2402018

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
613963001	AF56409
613963002	AF56410
613963003	AF56411
613963004	AF56412
613963005	AF56413
613963006	AF56430
613963007	AF56419
613963008	AF56425
613963009	AF56426
613963010	AF56427
613963011	AF56408
613963012	AF56415
613963013	AF56416
613963014	AF56417
613963015	AF56429
613963016	AF56406
613963017	AF56407
613963018	AF56418
613963019	AF56422
1205352736	Method Blank (MB)
1205352737	613963001(AF56409) Sample Duplicate (DUP)
1205352738	613963001(AF56409) Matrix Spike (MS)
1205352739	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.

#### **Preparation Information**

#### **Homogenous Matrix**

Samples 613963012 (AF56415), 613963013 (AF56416), 613963014 (AF56417), 613963017 (AF56407) and 613963018 (AF56418) were non-homogenous matrix.

#### **Miscellaneous Information**

#### **Additional Comments**

The matrix spike, 1205352738 (AF56409MS), aliquot was reduced to conserve sample volume.

Page 25 of 32 SDG: 613963

### **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.

Page 26 of 32 SDG: 613963

Contract Lab Info:

RAD - 4/17/23

**Chain of Custody** 

santee cooper°

Customer Emai	l/Report Recipie	nt:	Date R	esults Ne	eeded b	y:		Pr	oject/	Task/L	Jnit #:	Rerun request	for ar	y fla	ggec	1 QC
LCWIUJA	@santeeco	ooper.com					125	715	<u>J</u> JM	02.0	9.601.1	<u>1_36500</u> Yes		nalysi	s Grou	up
Labworks ID # (Internal use only)	Sample Location Description	o/	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)	Meth     Repc     Misc     Any	Comments od # orting limit . sample info other notes	Tac/boc	ALKAUNITY	SWIFIDE	RAD 226 +228
AF56409	WAP-14		3/6/23	1214	20M ML	6	P/s	6	GW	*	*SULF	IDE HAS SHORT HOUD	2	1	1	2
1 10	WAP - 14D			1219	1	1		1					11			Ш
u	WAP - 14A			1108		1					* PRES	ERVATURES				
				1515		H						HZSO4 ZINCACETATE, NaOI	4			$\Pi$
12	WAP-14B			1013	++-				$\mathbf{H}$		RAD HN			$\forall$		H
[3	WAP-14C			1344	+	+	+		+		∠H°C		+	H	H	H
<u> </u>	WAP-29		1	1010	1	-	1	1	-	-			1	1	1	سد
AF56419	WAP -19		3/7/23	145]	1		1				ALKAL-	TOTAL, BICARB, CARB	1	1	11	
) 25	25		1	1249							RAD - IN	CLUDE TOTAL CALC.				Ш
26	26			1022							bec-N	OT FIELD FILTERED				
27			1	1027	I	Ī	1	ĵ	1	1			1	1	1	
- 1 11	Fundament	Date	Time	Pacai	ived by:		Employee	#	Dat	e	Time	Sample Receiving (Internal				
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Relinquished by	y: Employee#	Date	Time		ived by:		Employee	#	Dat	_	Time	Correct pH: Yes No	)			
m. An	GEL	3.10.23	1620	The	Sel		JEC	_	10/		1620	Preservative Lot#:				
Relinquished b	y: Employee#	Date	Time 2	Recei	ived by:		Employee	#	Ďat	e	Time	Date/Time/Init for presen	ative:			
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			TPO4	□ THM/F	IAA		belo □ A				☐ Ash ☐ Sulfur	☐ % Carbon ☐ Mineral	14	Acidi	y	
		□ NI □ F		□ Oil & C			DI		ale		BTUs	Analysis	DED	Dielect IFT		
	Mg □ Ti	□ CI		☐ Total C			So	oluble N	detals		☐ Volatile	Matter ☐ Sieve ☐ % Moisture		Disso sed (		inses
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THE REPORT OF THE REAL PROPERTY.	Mo □ V	ONC	)3	□ Dissolv		11	D Si	ulfites	1154		XRF Scan	NPDES	4.1	Metal (As.C		NLPb
		□ SC	)4	☐ Rad 22		50		hloride:		E	Fineness	□ Oil & Grease □ As	THE STATE OF	Hg) TX		
	Ni ☐ Hg Pb ☐ CrVI	A STATE OF		□ PCB			□ Pa □ Sulfur	irticle S	ize	Att 5	Particulate M	atter TSS		OFE	1	
	I UCIVI	the second		SI CONTRACTOR			Junth	15			The state of the		100	-		

# **Chain of Custody**



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

Custo	omer E	mail/	Report Recip	ient:	Date	Results No	eeded b	y:		Pi	roject/	Task/l	Unit #:	Rerun reque	st for a	ny fla	gged	QC
LC	WILLIA	Ar .	@sante	cooper.com					1250	715	1 Th	102.0	9. <b>6</b> Ø1. l	<u> </u>	No			
															1	Analysi	s Grou	<u>ap</u>
		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)	Me     Rep     Mis     Any	Comments thod # borting limit sc. sample info y other notes	TOC/200C	AUCAUNITY	SulFide	Red 126 (128	
AFE	56405 WAP-13			3/8/2	3 1338	20M ML	6	P	G	ew.	*	*SULF	IDE HAS SHORT HOL	0 2	1	l	2	
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	2°	7	1 28			1212	Ī	1	1	1	1	1	RAD HA					
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1-31 -	0		-  2D		1	1034			$\forall$	1			Alsent	Tringle on comment of the	+	H		
									++			+		TOTAL, BICARB, CARB		H		
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	27	2	1 22		1-1-	1319	7	1	-	1	1	7	DOC-NO	T FIELD FILTERED	1	7	7	上
Rel	inquishe	d by:	Employeet	Date	Time	Receiv	ed by:	F	mployee	#	Date		Time	Sample Receiving (International TEMP (°C):				
	ww		35594	3/10/23	1100	m. dr			GEL		3/10/2	3	1100	Correct pH: Yes				
Rel	inquishe	d by:	Employee#	Date	Time	Receiv	red by:	-	mployee	#	Date		Time		10			
	An		GEL	3.10.23	1620.	5	al		EL		10/0	_	1620	Preservative Lot#:				
Rel	inquished	d by:	Employee#	Date	Time	Receiv	red by:		mployee	#	Ďate		Time	Date/Time/Init for prese	rvative:			
	П	ME	TALS (all )							- 32 M			7 (Sec. 31)					
□ A <sub>s</sub>	100 Per 100 Pe	□ Cu		INGU		MI	SC.		Gy		n		Coal			Oi		
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□ As		□K	□ Sn	□ TP/	TPO4	□ THM/H. □ VOC		A Par	belo	w)		8	□ Ash	□ % Carbon	1 60	olor Acidity		
□В		□Li	□ Sr	□NH	3-N	□ Oil & G	rease	2	D AI		No.	F 18	Sulfur	☐ Mineral	BI	lielectri		gth
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□ Ca		□ Mo	□V	□Br		☐ Dissolve		100	1%	Moistu			ther Tests:		, ai	lashp	int	
□ Cd		□ Na		□ NO □ SO4		☐ Dissolve ☐ Rad 226		189	□ Sul	lfites	In pro		XRF Scan HGI	NPDES		Metals As,Cd		
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L CI	SEPTEMBER ST	LU	I ii crv.		*0-7-0		THE R. S.		L Suitur	1	A Jara		March .	THE RESERVE OF STREET		Control of the last	EX.	

	GEG Laboratories LLC				CAMPI D DECEMBER 1
Clie	nt COP		-		SAMPLE RECEIPT & REVIEW FORM
Cit	See 1		_	SD	G/AR/COC/Work Order: 613959/613962
Rec	eived By: UW			Da	te Received: 3/10/25.
	Carrier and Tracking Number				FedEx Express FedEx Ground UPS Field Services Courier Other
Susp	ected Hazard Information	Yes	No	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)SI	iipped as a DOT Hazardous?		1		tard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
	id the client designate the samples are to be ved as radioactive?		1	СО	C notation or radioactive stickers on containers equal client designation.
	id the RSO classify the samples as active?		/	Ma	ximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	id the client designate samples are hazardous?		/	1	C notation or hazard labels on containers equal client designation.  For E is yes, select Hazards below.  PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Others
E) D	id the RSO identify possible hazards?		/		PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	YZ,	ž	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	,			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	1			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*	/			Preservation Method: Wet Ice Jce Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 7
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #:
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	1			Sample ID's and Containers Affected:  If Preservation added, Lot#:
4					If Yes, are Encores or Soil Kits present for solids? Yes No NA (If yes, take to VOA Freezer)
7	Do any samples require Volatile			,	Do liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No)
	Analysis?		24. 	/	Are liquid VOA vials free of headspace? Yes No NA Sample ID's and containers affected:
8	Samples received within holding time?	/			ID's and tests affected:
	Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
	Number of containers received match number indicated on COC?	1	有	Ĭ	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	1			
13	COC form is properly signed in relinquished/received sections?			_	Circle Applicable: Not relinquished Other (describe)

Page 29 of 32 SDG: 613963

PNI (or PMA) review: Initials July Date 3/13/23 Page 1 of 1

#### **Jordan Melton**

From: Linda Williams linda.williams@santeecooper.com>

**Sent:** Tuesday, March 14, 2023 8:08 AM

**To:** Jordan Melton

**Cc:** Jeanette Gilmetti; Courtney Ames Watkins; Sherri Brown **Subject:** RE: Sample ID verification for "AF56429: WAP-28" 613963

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hello Jordan,

The sample should be WAP-28 id AF56429.

Thank you,

#### Linda Williams

Manager Analytical Services 843-761-8000 x5184



From: Jeanette Gilmetti < jeanette.gilmetti@santeecooper.com>

**Sent:** Tuesday, March 14, 2023 7:21 AM

To: Linda Williams < linda.williams@santeecooper.com>; Courtney Ames Watkins

<COURTNEY.AMESWATKINS@santeecooper.com>

Subject: FW: Sample ID verification for "AF56429: WAP-28" 613963

Please see note below and let me know if this has been resolved or if I can assist.

Jeanette Gilmetti

Santee cooper Environmental Resources (843) 761-8000 ext. 4564

jeanette.gilmetti@santeecooper.com

From: Jordan Melton < Jordan. Melton@gel.com >

Sent: Monday, March 13, 2023 12:12 PM

To: Sherri Brown <sherri.brown@santeecooper.com>

Cc: Jeanette Gilmetti < jeanette.gilmetti@santeecooper.com >

Subject: [EXTERNAL SENDER] Sample ID verification for "AF56429: WAP-28" 613963

#### Good afternoon,

GEL received ground water samples for Rad 226 and Rad 228 analysis. Sample AF56429 was received with the ID "WAP-8" on the container. The chain of custody lists the sample ID as "WAP-28". Please confirm which sample ID should be used.

Thank you,

Jordan Melton

Project Manager Assistant



2040 Savage Road, Charleston, SC 29407 | P.O. Box 30712, Charleston, SC 29417

Office Main: 843.556.8171 | Office Fax: 843.769.7383 E-Mail: <u>Jordan.Melton@gel.com</u> | Website: <u>www.gel.com</u>

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Do not click on any links or open any attachments unless you are confident it is from a trusted source.

If you have questions, please call the Technology Service Desk at Ext. 7777.

List of current GEL Certifications as of 11 April 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 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
Vermont Virginia NELAP	460202
	C780
Washington	C/80



# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

**JOB DESCRIPTION** 

Generated 3/28/2023 6:24:21 PM

125915/JM02.09.G01.1/36500

**JOB NUMBER** 

680-232195-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **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**

Generated 3/28/2023 6:24:21 PM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Job ID: 680-232195-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-232195-1

#### Receipt

The samples were received on 3/17/2023 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 12.3°C

#### Metals

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

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## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Water Water	03/01/23 14:41	03/17/23 10:30
Water		
	03/01/23 13:37	03/17/23 10:30
Water	03/01/23 10:22	03/17/23 10:30
Water	03/01/23 11:45	03/17/23 10:30
Water	03/02/23 12:46	03/17/23 10:30
Water	03/02/23 09:52	03/17/23 10:30
Water	03/02/23 10:56	03/17/23 10:30
Water	03/07/23 14:51	03/17/23 10:30
Water	03/07/23 12:49	03/17/23 10:30
Water	03/07/23 10:22	03/17/23 10:30
Water	03/07/23 10:27	03/17/23 10:30
Water	03/08/23 13:38	03/17/23 10:30
Water	03/08/23 15:13	03/17/23 10:30
Water	03/08/23 10:09	03/17/23 10:30
Water	03/08/23 10:14	03/17/23 10:30
Water	03/08/23 12:12	03/17/23 10:30
Water	02/14/23 12:33	03/17/23 10:30
Water	02/14/23 13:51	03/17/23 10:30
Water	02/14/23 15:22	03/17/23 10:30
Water	02/15/23 11:36	03/17/23 10:30
Water	02/15/23 13:21	03/17/23 10:30
Water	02/16/23 10:53	03/17/23 10:30
Water	02/16/23 12:55	03/17/23 10:30
Water	02/16/23 14:07	03/17/23 10:30
Water	02/16/23 14:12	03/17/23 10:30
		03/17/23 10:30
	02/27/23 09:57	03/17/23 10:30
	02/27/23 10:02	03/17/23 10:30
		03/17/23 10:30
Water	02/28/23 12:58	03/17/23 10:30
Water	02/28/23 11:44	03/17/23 10:30
Water	02/28/23 10:19	03/17/23 10:30
	02/28/23 10:24	03/17/23 10:30
	02/28/23 14:31	03/17/23 10:30
		03/17/23 10:30
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		03/17/23 10:30
		03/17/23 10:30
		03/17/23 10:30
	Water	Water 03/02/23 12:46 Water 03/02/23 09:52 Water 03/02/23 10:56 Water 03/07/23 14:51 Water 03/07/23 12:49 Water 03/07/23 10:22 Water 03/07/23 10:22 Water 03/08/23 13:38 Water 03/08/23 15:13 Water 03/08/23 15:13 Water 03/08/23 10:14 Water 03/08/23 10:14 Water 03/08/23 12:12 Water 03/08/23 12:12 Water 02/14/23 12:33 Water 02/14/23 13:51 Water 02/14/23 13:51 Water 02/14/23 13:51 Water 02/15/23 11:36 Water 02/15/23 11:36 Water 02/16/23 10:53 Water 02/16/23 12:55 Water 02/16/23 14:07 Water 02/27/23 10:02 Water 02/27/23 10:02 Water 02/28/23 11:44 Water 02/28/23 11:45 Water 02/28/23 11:41 Water 03/06/23 12:14 Water 03/06/23 12:14 Water 03/06/23 12:14 Water 03/06/23 11:08 Water 03/06/23 11:08 Water 03/06/23 10:10 Water 03/09/23 10:29 Water 03/09/23 10:29 Water 03/09/23 10:29

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### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SL
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
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

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### **Definitions/Glossary**

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

#### **Qualifiers**

**PRES** 

QC

RL RPD

TEF TEQ

TNTC

RER

Presumptive

**Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

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.
1	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)
.OD	Limit of Detection (DoD/DOE)
.OQ	Limit of Quantitation (DoD/DOE)
ИCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
ИDL	Method Detection Limit
ИL	Minimum Level (Dioxin)
MPN .	Most Probable Number
ИQL	Method Quantitation Limit
IC	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

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Client Sample ID: AF56421

Job ID: 680-232195-1

Lab Sample ID: 680-232195-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Calcium	99400	500	ug/L		6010D	Dissolved
Iron	3540	100	ug/L	1	6010D	Dissolved
Magnesium	14600	500	ug/L	1	6010D	Dissolved
Potassium	9160	1000	ug/L	1	6010D	Dissolved
Sodium	19200	2000	ug/L	1	6010D	Dissolved
Aluminum	127	100	ug/L	1	6020B	Dissolved
Barium 	33.3	5.00	ug/L	1	6020B	Dissolved

# Client Sample ID: AF56424 Lab Sample ID: 680-232195-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	175000		500		ug/L	1	_	6010D	Dissolved
Iron	269		100		ug/L	1		6010D	Dissolved
Magnesium	13100		500		ug/L	1		6010D	Dissolved
Potassium	5550		1000		ug/L	1		6010D	Dissolved
Sodium	34700		2000		ug/L	1		6010D	Dissolved
Barium	9.67		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56439 Lab Sample ID: 680-232195-3

 Analyte	Result Qualifier	RL	MDL Unit		Dil Fac	D	Method	Prep Type
Calcium	126000	500	ug/L		1	_	6010D	Dissolved
Iron	7900	100	ug/L	-	1		6010D	Dissolved
Magnesium	13000	500	ug/L		1		6010D	Dissolved
Potassium	6990	1000	ug/L		1		6010D	Dissolved
Sodium	35800	2000	ug/L		1		6010D	Dissolved
Aluminum	850	100	ug/L		1		6020B	Dissolved
Arsenic	40.1	3.00	ug/L		1		6020B	Dissolved
Barium	90.0	5.00	ug/L		1		6020B	Dissolved
Cobalt	6.59	0.500	ug/L	<u>-</u>	1		6020B	Dissolved
Zinc	43.1	20.0	ug/L		1		6020B	Dissolved

### Client Sample ID: AF56441 Lab Sample ID: 680-232195-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	140		50.0		ug/L	1	_	6010D	Dissolved
Calcium	174000		500		ug/L	1		6010D	Dissolved
Iron	4580		100		ug/L	1		6010D	Dissolved
Magnesium	9730		500		ug/L	1		6010D	Dissolved
Potassium	5050		1000		ug/L	1		6010D	Dissolved
Sodium	22900		2000		ug/L	1		6010D	Dissolved
Arsenic	177		3.00		ug/L	1		6020B	Dissolved
Barium	76.2		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56414 Lab Sample ID: 680-232195-5

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Lithium	63.0	50.0	ug/L	1	6010D	Dissolved
Calcium	443000	500	ug/L	1	6010D	Dissolved
Iron	21800	100	ug/L	1	6010D	Dissolved
Magnesium	43600	500	ug/L	1	6010D	Dissolved
Potassium	6180	1000	ug/L	1	6010D	Dissolved
Sodium	94600	2000	ug/L	1	6010D	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: 680-232195-1

Lab Sample ID: 680-232195-5

Lab Sample ID: 680-232195-6

Lab Sample ID: 680-232195-7

Lab Sample ID: 680-232195-8

Lab Sample ID: 680-232195-9

Client S	Sample	ID.	AF56414	(Continued)
Ollellt 4	Cample	ID.	AI 307 IT	(Continued)

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Barium	367	5.00	ug/L	1	6020B	Dissolved

### Client Sample ID: AF56423

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	95.7		50.0		ug/L	1	_	6010D	Dissolved
Calcium	382000		500		ug/L	1		6010D	Dissolved
Iron	14000		100		ug/L	1		6010D	Dissolved
Magnesium	46400		500		ug/L	1		6010D	Dissolved
Potassium	11800		1000		ug/L	1		6010D	Dissolved
Sodium	85500		2000		ug/L	1		6010D	Dissolved
Arsenic	307		3.00		ug/L	1		6020B	Dissolved
Barium	214		5.00		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56428

Analyte	Result Qu	ualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	95200	500		ug/L	1		6010D	Dissolved
Iron	76100	100		ug/L	1		6010D	Dissolved
Magnesium	21000	500		ug/L	1		6010D	Dissolved
Potassium	9830	1000		ug/L	1		6010D	Dissolved
Sodium	35400	2000		ug/L	1		6010D	Dissolved
Arsenic	75.4	3.00		ug/L	1		6020B	Dissolved
Barium	108	5.00		ug/L	1		6020B	Dissolved
Cobalt	0.610	0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56419

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	223		50.0		ug/L	1	_	6010D	Dissolved
Calcium	535000		500		ug/L	1		6010D	Dissolved
Iron	1430		100		ug/L	1		6010D	Dissolved
Magnesium	78800		500		ug/L	1		6010D	Dissolved
Molybdenum	55.9		10.0		ug/L	1		6010D	Dissolved
Potassium	19700		1000		ug/L	1		6010D	Dissolved
Sodium	41700		2000		ug/L	1		6010D	Dissolved
Arsenic	103		3.00		ug/L	1		6020B	Dissolved
Barium	71.5		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.26		0.500		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56425

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- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	247000		500		ug/L	1	_	6010D	Dissolved
Iron	1290		100		ug/L	1		6010D	Dissolved
Magnesium	35800		500		ug/L	1		6010D	Dissolved
Molybdenum	19.3		10.0		ug/L	1		6010D	Dissolved
Potassium	13000		1000		ug/L	1		6010D	Dissolved
Sodium	68500		2000		ug/L	1		6010D	Dissolved
Barium	42.8		5.00		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56426

Job ID: 680-232195-1

Lab Sample ID: 680-232195-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	192000		500		ug/L	1	_	6010D	Dissolved
Iron	3230		100		ug/L	1		6010D	Dissolved
Magnesium	18700		500		ug/L	1		6010D	Dissolved
Potassium	11200		1000		ug/L	1		6010D	Dissolved
Sodium	127000		2000		ug/L	1		6010D	Dissolved
Aluminum	149		100		ug/L	1		6020B	Dissolved
Barium	35.1		5.00		ug/L	1		6020B	Dissolved

# Client Sample ID: AF56427 Lab Sample ID: 680-232195-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	382000		500		ug/L	1	_	6010D	Dissolved
Iron	41600		100		ug/L	1		6010D	Dissolved
Magnesium	27600		500		ug/L	1		6010D	Dissolved
Potassium	2620		1000		ug/L	1		6010D	Dissolved
Sodium	121000		2000		ug/L	1		6010D	Dissolved
Aluminum	156		100		ug/L	1		6020B	Dissolved
Barium	35.8		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56408 Lab Sample ID: 680-232195-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	21000		500		ug/L	1	_	6010D	Dissolved
Iron	256		100		ug/L	1		6010D	Dissolved
Magnesium	1650		500		ug/L	1		6010D	Dissolved
Sodium	4330		2000		ug/L	1		6010D	Dissolved
Barium	251		5.00		ug/L	1		6020B	Dissolved
Chromium	40.5		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.575		0.500		ug/L	1		6020B	Dissolved
Zinc	53.9		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56415 Lab Sample ID: 680-232195-13

— Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19600		500		ug/L	1	_	6010D	Dissolved
Iron	213		100		ug/L	1		6010D	Dissolved
Magnesium	1630		500		ug/L	1		6010D	Dissolved
Sodium	4310		2000		ug/L	1		6010D	Dissolved
Barium	76.3		5.00		ug/L	1		6020B	Dissolved
Zinc	30.6		20.0		ug/L	1		6020B	Dissolved

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	66800		500		ug/L	1	_	6010D	Dissolved
Iron	891		100		ug/L	1		6010D	Dissolved
Magnesium	2920		500		ug/L	1		6010D	Dissolved
Potassium	2190		1000		ug/L	1		6010D	Dissolved
Sodium	11100		2000		ug/L	1		6010D	Dissolved
Arsenic	74.8		3.00		ug/L	1		6020B	Dissolved
Barium	42.0		5.00		ug/L	1		6020B	Dissolved
Zinc	182		20.0		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

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Job ID: 680-232195-1

Lab Sample ID: 680-232195-15

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D	Method	Prep Type
Calcium	270000	500	ug/L	1	_	6010D	Dissolved
Iron	1940	100	ug/L	1		6010D	Dissolved
Magnesium	38900	500	ug/L	1	(	6010D	Dissolved
Molybdenum	21.2	10.0	ug/L	1		6010D	Dissolved
Potassium	14100	1000	ug/L	1	(	6010D	Dissolved
Sodium	72300	2000	ug/L	1	(	6010D	Dissolved
Arsenic	84.0	3.00	ug/L	1		6020B	Dissolved
Barium	50.0	5.00	ug/L	1		6020B	Dissolved

### Client Sample ID: AF56429

Client Sample ID: AF56417

Lab	Sample	ID:	680-232195-16	
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Analyte	Result Qual	ifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74200	500		ug/L	1	_	6010D	Dissolved
Iron	92900	100		ug/L	1		6010D	Dissolved
Magnesium	26000	500		ug/L	1		6010D	Dissolved
Sodium	82900	2000		ug/L	1		6010D	Dissolved
Aluminum	2310	100		ug/L	1		6020B	Dissolved
Barium	245	5.00		ug/L	1		6020B	Dissolved
Beryllium	0.965	0.500		ug/L	1		6020B	Dissolved
Cobalt	19.1	0.500		ug/L	1		6020B	Dissolved
Lead	2.54	2.50		ug/L	1		6020B	Dissolved
_ Nickel	5.89	5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56394

### Lab Sample ID: 680-232195-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	11200		500		ug/L	1	_	6010D	Dissolved
Iron	3120		100		ug/L	1		6010D	Dissolved
Magnesium	1020		500		ug/L	1		6010D	Dissolved
Sodium	5650		2000		ug/L	1		6010D	Dissolved
Aluminum	1310		100		ug/L	1		6020B	Dissolved
Arsenic	5.22		3.00		ug/L	1		6020B	Dissolved
Barium	76.1		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.765		0.500		ug/L	1		6020B	Dissolved
Zinc	23.6		20.0		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56331

#### Lab Sample ID: 680-232195-18

– Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	3560		500		ug/L	1	_	6010D	Dissolved
Magnesium	898		500		ug/L	1		6010D	Dissolved
Sodium	2720		2000		ug/L	1		6010D	Dissolved
Aluminum	793		100		ug/L	1		6020B	Dissolved
Barium	30.1		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.58		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56332

#### Lab Sample ID: 680-232195-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Calcium	87900		500		ug/L	1	_	6010D	Dissolved	
Iron	5240		100		ug/L	1		6010D	Dissolved	
Magnesium	2750		500		ug/L	1		6010D	Dissolved	
Potassium	2150		1000		ug/L	1		6010D	Dissolved	

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56332 (Continued)

Job ID: 680-232195-1

Lab Sample ID: 680-232195-19

Analyte	Result Qu	ualifier RL	MDL Unit	Dil Fac	D Meth	od Prep Type
Sodium	11700	2000	ug/L	1	6010	D Dissolved
Aluminum	1300	100	ug/L	1	6020	B Dissolved
Barium	102	5.00	ug/L	1	6020	B Dissolved

**Client Sample ID: AF56395** Lab Sample ID: 680-232195-20

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac D	Method	Prep Type
Calcium	355000	500		ug/L	1	6010D	Dissolved
Iron	3970	100		ug/L	1	6010D	Dissolved
Magnesium	43700	500		ug/L	1	6010D	Dissolved
Potassium	9610	1000		ug/L	1	6010D	Dissolved
Sodium	71800	2000		ug/L	1	6010D	Dissolved
Aluminum	194	100		ug/L	1	6020B	Dissolved
Arsenic	11.5	3.00		ug/L	1	6020B	Dissolved
Barium	151	5.00		ug/L	1	6020B	Dissolved
Beryllium	1.46	0.500		ug/L	1	6020B	Dissolved
Cobalt	18.5	0.500		ug/L	1	6020B	Dissolved
Nickel	10.1	5.00		ug/L	1	6020B	Dissolved

Client Sample ID: AF56396 Lab Sample ID: 680-232195-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	226000		500		ug/L	1	_	6010D	Dissolved
Iron	23400		100		ug/L	1		6010D	Dissolved
Magnesium	14600		500		ug/L	1		6010D	Dissolved
Potassium	2050		1000		ug/L	1		6010D	Dissolved
Sodium	42400		2000		ug/L	1		6010D	Dissolved
Barium	149		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.565		0.500		ug/L	1		6020B	Dissolved

Client Sample ID: AF56397 Lab Sample ID: 680-232195-22

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	54900	500		ug/L	1	_	6010D	Dissolved
Iron	102	100		ug/L	1		6010D	Dissolved
Magnesium	3940	500		ug/L	1		6010D	Dissolved
Potassium	1830	1000		ug/L	1		6010D	Dissolved
Sodium	17100	2000		ug/L	1		6010D	Dissolved
Barium	34.2	5.00		ug/L	1		6020B	Dissolved
Zinc	114	20.0		ug/L	1		6020B	Dissolved

Client Sample ID: AF56400 Lab Sample ID: 680-232195-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	264000		500		ug/L	1	_	6010D	Dissolved
Iron	783		100		ug/L	1		6010D	Dissolved
Magnesium	3930		500		ug/L	1		6010D	Dissolved
Potassium	2390		1000		ug/L	1		6010D	Dissolved
Sodium	13900		2000		ug/L	1		6010D	Dissolved
Barium	46.4		5.00		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56442

Job ID: 680-232195-1

Lab Sample ID: 680-232195-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	162000		500		ug/L	1	_	6010D	Dissolved
Iron	286		100		ug/L	1		6010D	Dissolved
Magnesium	7610		500		ug/L	1		6010D	Dissolved
Potassium	4220		1000		ug/L	1		6010D	Dissolved
Sodium	21500		2000		ug/L	1		6010D	Dissolved
Arsenic	3.62		3.00		ug/L	1		6020B	Dissolved
Barium —	34.7		5.00		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56443

Lah	Sample	י ווי	680-232195-25
Lab	Sample	, וטו	000-232133-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	166000		500		ug/L	1	_	6010D	Dissolved
Iron	359		100		ug/L	1		6010D	Dissolved
Magnesium	7850		500		ug/L	1		6010D	Dissolved
Potassium	4220		1000		ug/L	1		6010D	Dissolved
Sodium	21500		2000		ug/L	1		6010D	Dissolved
Aluminum	239		100		ug/L	1		6020B	Dissolved
Arsenic	4.54		3.00		ug/L	1		6020B	Dissolved
Barium	39.2		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.715		0.500		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56402

### Lab Sample ID: 680-232195-26

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	199000	500		ug/L	1	_	6010D	Dissolved
Iron	22900	100		ug/L	1		6010D	Dissolved
Magnesium	23600	500		ug/L	1		6010D	Dissolved
Potassium	11200	1000		ug/L	1		6010D	Dissolved
Sodium	34600	2000		ug/L	1		6010D	Dissolved
Aluminum	327	100		ug/L	1		6020B	Dissolved
Arsenic	31.0	3.00		ug/L	1		6020B	Dissolved
Barium	77.9	5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56403

### Lab Sample ID: 680-232195-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	70.2		50.0		ug/L	1	_	6010D	Dissolved
Calcium	645000		500		ug/L	1		6010D	Dissolved
Iron	22000		100		ug/L	1		6010D	Dissolved
Magnesium	90500		500		ug/L	1		6010D	Dissolved
Potassium	28700		1000		ug/L	1		6010D	Dissolved
Sodium	156000		2000		ug/L	1		6010D	Dissolved
Barium	318		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56404

### Lab Sample ID: 680-232195-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	64.9		50.0		ug/L	1	_	6010D	Dissolved
Calcium	653000		500		ug/L	1		6010D	Dissolved
Iron	22200		100		ug/L	1		6010D	Dissolved
Magnesium	91700		500		ug/L	1		6010D	Dissolved
Potassium	28600		1000		ug/L	1		6010D	Dissolved
Sodium	158000		2000		ug/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

3/28/2023

Job ID: 680-232195-1

Client Sample ID: AF56404 (Continued) Lab Sample ID: 680-232195-28 Result Qualifier **MDL** Unit Dil Fac D Method Analyte RL **Prep Type** 313 5.00 6020B Barium ug/L Dissolved Client Sample ID: AF56434 Lab Sample ID: 680-232195-29 Dil Fac D Analyte Result Qualifier RLMDL Method Unit Prep Type Calcium 60500 500 ug/L 6010D Dissolved 2930 6010D 100 ug/L Dissolved Iron 1 Magnesium 1910 500 ug/L 6010D Dissolved ug/L Sodium 4740 2000 6010D Dissolved Aluminum 929 100 ug/L 6020B Dissolved Barium 38.9 5.00 ug/L 6020B Dissolved Cobalt 6020B Dissolved 2.41 0.500 ug/L Zinc 68.5 20.0 ug/L 6020B Dissolved Client Sample ID: AF56433 Lab Sample ID: 680-232195-30 Result Qualifier RL MDL Unit Dil Fac D Method **Prep Type** Calcium 448000 500 ug/L 6010D Dissolved 16300 6010D Iron 100 ug/L 1 Dissolved 12900 500 6010D Magnesium ug/L 1 Dissolved 5750 6010D Potassium 1000 ug/L Dissolved 10800 2000 6010D Sodium ug/L Dissolved 53.8 5.00 6020B Barium ug/L Dissolved Client Sample ID: AF56435 Lab Sample ID: 680-232195-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	21900		500		ug/L	1	_	6010D	Dissolved
Iron	880		100		ug/L	1		6010D	Dissolved
Magnesium	892		500		ug/L	1		6010D	Dissolved
Sodium	3260		2000		ug/L	1		6010D	Dissolved
Aluminum	3790		100		ug/L	1		6020B	Dissolved
Arsenic	8.02		3.00		ug/L	1		6020B	Dissolved
Barium	34.7		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.29		0.500		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56436 Lab Sample ID: 680-232195-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92200		500		ug/L	1	_	6010D	Dissolved
Iron	771		100		ug/L	1		6010D	Dissolved
Magnesium	2500		500		ug/L	1		6010D	Dissolved
Potassium	1580		1000		ug/L	1		6010D	Dissolved
Sodium	5430		2000		ug/L	1		6010D	Dissolved
Barium	37.2		5.00		ug/L	1		6020B	Dissolved
Zinc	42.9		20.0		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56437 Lab Sample ID: 680-232195-33

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Calcium	93200	500	ug/L		6010D	Dissolved
Iron	1200	100	ug/L	1	6010D	Dissolved
Magnesium	1750	500	ug/L	1	6010D	Dissolved

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

Job ID: 680-232195-1

Lab Sample ID: 680-232195-33

Lab Sample ID: 680-232195-34

Lab Sample ID: 680-232195-35

Lab Sample ID: 680-232195-36

Lab Sample ID: 680-232195-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1260		1000		ug/L	1		6010D	Dissolved
Sodium	3590		2000		ug/L	1		6010D	Dissolved
Barium	36.8		5.00		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56438

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Calcium	296000	500	ug/L	1	6010D	Dissolved
Iron	1040	100	ug/L	1	6010D	Dissolved
Magnesium	28800	500	ug/L	1	6010D	Dissolved
Potassium	6790	1000	ug/L	1	6010D	Dissolved
Sodium	18000	2000	ug/L	1	6010D	Dissolved
Barium	41.2	5.00	ug/L	1	6020B	Dissolved

#### Client Sample ID: AF56409

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	118		50.0		ug/L	1	_	6010D	Dissolved
Calcium	1140000		5000		ug/L	10		6010D	Dissolved
Magnesium	30500		500		ug/L	1		6010D	Dissolved
Potassium	15500		1000		ug/L	1		6010D	Dissolved
Sodium	139000		2000		ug/L	1		6010D	Dissolved
Arsenic	15.2		3.00		ug/L	1		6020B	Dissolved
Barium	54.6		5.00		ug/L	1		6020B	Dissolved
Chromium	13.2		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56410

— Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	109		50.0		ug/L	1	_	6010D	Dissolved
Calcium	1160000		5000		ug/L	10		6010D	Dissolved
Iron	113		100		ug/L	1		6010D	Dissolved
Magnesium	30800		500		ug/L	1		6010D	Dissolved
Potassium	15700		1000		ug/L	1		6010D	Dissolved
Sodium	140000		2000		ug/L	1		6010D	Dissolved
Arsenic	13.0		3.00		ug/L	1		6020B	Dissolved
Barium	56.5		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56411

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	92.4		50.0		ug/L	1		6010D	Dissolved
Calcium	849000		5000		ug/L	10		6010D	Dissolved
Magnesium	42600		500		ug/L	1		6010D	Dissolved
Potassium	13800		1000		ug/L	1		6010D	Dissolved
Sodium	126000		2000		ug/L	1		6010D	Dissolved
Arsenic	7.06		3.00		ug/L	1		6020B	Dissolved
Barium	108		5.00		ug/L	1		6020B	Dissolved
Zinc	35.7		20.0		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

Job ID: 680-232195-1

Lab Sample ID: 680-232195-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	64.6		50.0		ug/L	1	_	6010D	Dissolved
Calcium	698000		500		ug/L	1		6010D	Dissolved
Iron	1420		100		ug/L	1		6010D	Dissolved
Magnesium	29900		500		ug/L	1		6010D	Dissolved
Potassium	7230		1000		ug/L	1		6010D	Dissolved
Sodium	107000		2000		ug/L	1		6010D	Dissolved
Arsenic	6.71		3.00		ug/L	1		6020B	Dissolved
Barium	158		5.00		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56413

Client Sample ID: AF56412

Analyte	Result (	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	161000		500		ug/L	1	_	6010D	Dissolved
Iron	7850		100		ug/L	1		6010D	Dissolved
Magnesium	11100		500		ug/L	1		6010D	Dissolved
Potassium	4680		1000		ug/L	1		6010D	Dissolved
Sodium	71500		2000		ug/L	1		6010D	Dissolved
Barium	85.5		5.00		ug/L	1		6020B	Dissolved
Cobalt	0.955		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56430

### Lab Sample ID: 680-232195-40

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	ט	Method	Prep Type
Calcium	448000		500		ug/L	1		6010D	Dissolved
Iron	32200		100		ug/L	1		6010D	Dissolved
Magnesium	72300		500		ug/L	1		6010D	Dissolved
Potassium	6530		1000		ug/L	1		6010D	Dissolved
Sodium	87300		2000		ug/L	1		6010D	Dissolved
Barium	48.0		5.00		ug/L	1		6020B	Dissolved
Cobalt	6.15		0.500		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56406

#### Lab Sample ID: 680-232195-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	194000		500		ug/L	1	_	6010D	Dissolved
Iron	1380		100		ug/L	1		6010D	Dissolved
Magnesium	17000		500		ug/L	1		6010D	Dissolved
Potassium	4650		1000		ug/L	1		6010D	Dissolved
Sodium	43100		2000		ug/L	1		6010D	Dissolved
Aluminum	1740		100		ug/L	1		6020B	Dissolved
Barium	38.2		5.00		ug/L	1		6020B	Dissolved
Cobalt	1.83		0.500		ug/L	1		6020B	Dissolved
Zinc	40.6		20.0		ug/L	1		6020B	Dissolved

### Client Sample ID: AF56407

### Lab Sample ID: 680-232195-42

– Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	210000		500		ug/L	1	_	6010D	Dissolved
Iron	1430		100		ug/L	1		6010D	Dissolved
Magnesium	18500		500		ug/L	1		6010D	Dissolved
Potassium	5200		1000		ug/L	1		6010D	Dissolved
Sodium	46500		2000		ug/L	1		6010D	Dissolved
Aluminum	1590		100		ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

3/28/2023

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Dissolved -232195-42

## **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Client	Sami	ole II	) · AF	56407	(Con	tinued)
OHOHE	Odilli		<i>-</i>	JUTU1	1001	itiiiaca,

	Client Sample ID: AF56407 (Contin	ued)		Lab Sample ID:	: 680-232195-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Barium	38.7		5.00		ug/L	1		6020B	Dissolved	
Cobalt	2.01		0.500		ug/L	1		6020B	Dissolved	
Zinc	28.0		20.0		ug/L	1		6020B	Dissolved	

#### Client Sample ID: AF56418 Lab Sample ID: 680-232195-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	87.9		50.0		ug/L	1	_	6010D	Dissolved
Calcium	95500		500		ug/L	1		6010D	Dissolved
Iron	788		100		ug/L	1		6010D	Dissolved
Magnesium	7530		500		ug/L	1		6010D	Dissolved
Molybdenum	92.0		10.0		ug/L	1		6010D	Dissolved
Potassium	7660		1000		ug/L	1		6010D	Dissolved
Sodium	25300		2000		ug/L	1		6010D	Dissolved
Aluminum	130		100		ug/L	1		6020B	Dissolved
Arsenic	229		3.00		ug/L	1		6020B	Dissolved
Barium	133		5.00		ug/L	1		6020B	Dissolved
Cobalt	2.16	(	0.500		ug/L	1		6020B	Dissolved

#### Client Sample ID: AF56422 Lab Sample ID: 680-232195-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	248000		500		ug/L	1	_	6010D	Dissolved
Iron	6050		100		ug/L	1		6010D	Dissolved
Magnesium	8900		500		ug/L	1		6010D	Dissolved
Potassium	3850		1000		ug/L	1		6010D	Dissolved
Sodium	73300		2000		ug/L	1		6010D	Dissolved
Arsenic	3.54		3.00		ug/L	1		6020B	Dissolved
Barium	104		5.00		ug/L	1		6020B	Dissolved
Zinc	48.0		20.0		ug/L	1		6020B	Dissolved

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-1

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56421

Date Collected: 03/01/23 14:41 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:16	1
Calcium	99400		500		ug/L		03/24/23 14:44	03/24/23 19:56	1
Iron	3540		100		ug/L		03/24/23 14:44	03/24/23 19:56	1
Magnesium	14600		500		ug/L		03/24/23 14:44	03/24/23 19:56	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 19:56	1
Potassium	9160		1000		ug/L		03/24/23 14:44	03/24/23 19:56	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 19:56	1
Sodium	19200		2000		ug/L		03/24/23 14:44	03/24/23 19:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	127		100		ug/L		03/20/23 07:40	03/21/23 08:04	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Barium	33.3		5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:04	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:04	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:04	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:04	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:04	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:04	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56424 Lab Sample ID: 680-232195-2

Matrix: Water

Job ID: 680-232195-1

Date Collected: 03/01/23 13:37 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:20	1
Calcium	175000		500		ug/L		03/24/23 14:44	03/24/23 20:00	1
Iron	269		100		ug/L		03/24/23 14:44	03/24/23 20:00	1
Magnesium	13100		500		ug/L		03/24/23 14:44	03/24/23 20:00	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:00	1
Potassium	5550		1000		ug/L		03/24/23 14:44	03/24/23 20:00	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:00	1
Sodium	34700		2000		ug/L		03/24/23 14:44	03/24/23 20:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:08	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Barium	9.67		5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:08	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:08	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:08	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:08	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:08	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:08	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-3

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56439 Date Collected: 03/01/23 10:22

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:25	1
Calcium	126000		500		ug/L		03/24/23 14:44	03/24/23 20:03	1
Iron	7900		100		ug/L		03/24/23 14:44	03/24/23 20:03	1
Magnesium	13000		500		ug/L		03/24/23 14:44	03/24/23 20:03	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:03	1
Potassium	6990		1000		ug/L		03/24/23 14:44	03/24/23 20:03	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:03	1
Sodium	35800		2000		ug/L		03/24/23 14:44	03/24/23 20:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	850		100		ug/L		03/20/23 07:40	03/21/23 08:12	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Arsenic	40.1		3.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Barium	90.0		5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:12	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:12	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Cobalt	6.59		0.500		ug/L		03/20/23 07:40	03/21/23 08:12	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:12	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:12	1
Zinc	43.1		20.0		ug/L		03/20/23 07:40	03/21/23 08:12	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-4

Job ID: 680-232195-1

Matrix: Water

Date Collected: 03/01/23 11:45 Date Received: 03/17/23 10:30

Client Sample ID: AF56441

Method: SW846 6010D - Met	tals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	140		50.0		ug/L		03/23/23 14:17	03/24/23 20:30	1
Calcium	174000		500		ug/L		03/24/23 14:44	03/24/23 20:06	1
Iron	4580		100		ug/L		03/24/23 14:44	03/24/23 20:06	1
Magnesium	9730		500		ug/L		03/24/23 14:44	03/24/23 20:06	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:06	1
Potassium	5050		1000		ug/L		03/24/23 14:44	03/24/23 20:06	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:06	1
Sodium	22900		2000		ug/L		03/24/23 14:44	03/24/23 20:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:16	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Arsenic	177		3.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Barium	76.2		5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:16	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:16	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:16	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:16	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:16	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:16	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

oject/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56414 Lab Sample ID: 680-232195-5

Date Collected: 03/02/23 12:46
Date Received: 03/17/23 10:30
Matrix: Water

Method: SW846 6010D - Me	etals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	63.0		50.0		ug/L		03/23/23 14:17	03/24/23 20:34	1
Calcium	443000		500		ug/L		03/24/23 14:44	03/24/23 20:09	1
Iron	21800		100		ug/L		03/24/23 14:44	03/24/23 20:09	1
Magnesium	43600		500		ug/L		03/24/23 14:44	03/24/23 20:09	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:09	1
Potassium	6180		1000		ug/L		03/24/23 14:44	03/24/23 20:09	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:09	1
Sodium	94600		2000		ug/L		03/24/23 14:44	03/24/23 20:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:20	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Barium	367		5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:20	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:20	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:20	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:20	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:20	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:20	1

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Job ID: 680-232195-1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

L - L O - --- L ID - COO 000405

Lab Sample ID: 680-232195-6

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56423 Date Collected: 03/02/23 09:52

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	95.7		50.0		ug/L		03/23/23 14:17	03/24/23 20:39	1
Calcium	382000		500		ug/L		03/24/23 14:44	03/24/23 20:19	1
Iron	14000		100		ug/L		03/24/23 14:44	03/24/23 20:19	1
Magnesium	46400		500		ug/L		03/24/23 14:44	03/24/23 20:19	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:19	1
Potassium	11800		1000		ug/L		03/24/23 14:44	03/24/23 20:19	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:19	1
Sodium	85500		2000		ug/L		03/24/23 14:44	03/24/23 20:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:24	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Arsenic	307		3.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Barium	214		5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:24	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:24	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:24	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:24	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:24	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:24	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56428

Lab Sample ID: 680-232195-7

Job ID: 680-232195-1

Date Collected: 03/02/23 10:56 Matrix: Water Date Received: 03/17/23 10:30

Method: SW846 6010D - Meta	ıls (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:44	1
Calcium	95200		500		ug/L		03/24/23 14:44	03/24/23 20:22	1
Iron	76100		100		ug/L		03/24/23 14:44	03/24/23 20:22	1
Magnesium	21000		500		ug/L		03/24/23 14:44	03/24/23 20:22	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:22	1
Potassium	9830		1000		ug/L		03/24/23 14:44	03/24/23 20:22	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:22	1
Sodium	35400		2000		ug/L		03/24/23 14:44	03/24/23 20:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:28	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Arsenic	75.4		3.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Barium	108		5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:28	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:28	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Cobalt	0.610		0.500		ug/L		03/20/23 07:40	03/21/23 08:28	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:28	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:28	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:28	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-8

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56419

Date Collected: 03/07/23 14:51 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	223		50.0		ug/L		03/23/23 14:17	03/24/23 20:48	1
Calcium	535000		500		ug/L		03/24/23 14:44	03/24/23 20:25	1
Iron	1430		100		ug/L		03/24/23 14:44	03/24/23 20:25	1
Magnesium	78800		500		ug/L		03/24/23 14:44	03/24/23 20:25	1
Molybdenum	55.9		10.0		ug/L		03/24/23 14:44	03/24/23 20:25	1
Potassium	19700		1000		ug/L		03/24/23 14:44	03/24/23 20:25	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:25	1
Sodium	41700		2000		ug/L		03/24/23 14:44	03/24/23 20:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:33	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Arsenic	103		3.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Barium	71.5		5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:33	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:33	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Cobalt	1.26		0.500		ug/L		03/20/23 07:40	03/21/23 08:33	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:33	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:33	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:33	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56425

Date Collected: 03/07/23 12:49

Lab Sample ID: 680-232195-9

Matrix: Water

Date Received: 03/17/23 10:30

Method: SW846 6010D - Meta	ls (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:53	1
Calcium	247000		500		ug/L		03/24/23 14:44	03/24/23 20:29	1
Iron	1290		100		ug/L		03/24/23 14:44	03/24/23 20:29	1
Magnesium	35800		500		ug/L		03/24/23 14:44	03/24/23 20:29	1
Molybdenum	19.3		10.0		ug/L		03/24/23 14:44	03/24/23 20:29	1
Potassium	13000		1000		ug/L		03/24/23 14:44	03/24/23 20:29	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:29	1
Sodium	68500		2000		ug/L		03/24/23 14:44	03/24/23 20:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:37	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Barium	42.8		5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:37	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:37	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:37	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:37	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:37	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:37	1

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Job ID: 680-232195-1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-10

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56426

Date Collected: 03/07/23 10:22 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:12	1
Calcium	192000		500		ug/L		03/24/23 14:44	03/24/23 20:32	1
Iron	3230		100		ug/L		03/24/23 14:44	03/24/23 20:32	1
Magnesium	18700		500		ug/L		03/24/23 14:44	03/24/23 20:32	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:32	1
Potassium	11200		1000		ug/L		03/24/23 14:44	03/24/23 20:32	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:32	1
Sodium	127000		2000		ug/L		03/24/23 14:44	03/24/23 20:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	149		100		ug/L		03/20/23 07:40	03/21/23 08:41	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Barium	35.1		5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:41	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:41	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:41	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:41	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:41	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:41	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Lab Sample ID: 680-232195-11

Matrix: Water

Client Sample ID: AF56427

Date Collected: 03/07/23 10:27 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:16	1
Calcium	382000		500		ug/L		03/24/23 14:44	03/24/23 20:35	1
Iron	41600		100		ug/L		03/24/23 14:44	03/24/23 20:35	1
Magnesium	27600		500		ug/L		03/24/23 14:44	03/24/23 20:35	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:35	1
Potassium	2620		1000		ug/L		03/24/23 14:44	03/24/23 20:35	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:35	1
Sodium	121000		2000		ug/L		03/24/23 14:44	03/24/23 20:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	156		100		ug/L		03/20/23 07:40	03/21/23 08:53	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Barium	35.8		5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:53	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:53	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:53	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:53	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:53	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 08:53	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-12

Matrix: Water

Job ID: 680-232195-1

Date Collected: 03/08/23 13:38 Date Received: 03/17/23 10:30

Client Sample ID: AF56408

Method: SW846 6010D - Metals	(ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:21	1
Calcium	21000		500		ug/L		03/24/23 14:44	03/24/23 20:38	1
Iron	256		100		ug/L		03/24/23 14:44	03/24/23 20:38	1
Magnesium	1650		500		ug/L		03/24/23 14:44	03/24/23 20:38	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:38	1
Potassium	1000	U	1000		ug/L		03/24/23 14:44	03/24/23 20:38	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:38	1
Sodium	4330		2000		ug/L		03/24/23 14:44	03/24/23 20:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 08:57	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Barium	251		5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:57	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 08:57	1
Chromium	40.5		5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Cobalt	0.575		0.500		ug/L		03/20/23 07:40	03/21/23 08:57	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 08:57	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 08:57	1
Zinc	53.9		20.0		ug/L		03/20/23 07:40	03/21/23 08:57	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56415** 

Lab Sample ID: 680-232195-13

Matrix: Water

Job ID: 680-232195-1

Date Collected: 03/08/23 15:13

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:26	1
Calcium	19600		500		ug/L		03/24/23 14:44	03/24/23 20:42	1
Iron	213		100		ug/L		03/24/23 14:44	03/24/23 20:42	1
Magnesium	1630		500		ug/L		03/24/23 14:44	03/24/23 20:42	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:42	1
Potassium	1000	U	1000		ug/L		03/24/23 14:44	03/24/23 20:42	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:42	1
Sodium	4310		2000		ug/L		03/24/23 14:44	03/24/23 20:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 09:01	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Barium	76.3		5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:01	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:01	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:01	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 09:01	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:01	1
Zinc	30.6		20.0		ug/L		03/20/23 07:40	03/21/23 09:01	1

3/28/2023

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-14 Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56416 Date Collected: 03/08/23 10:09

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:31	1
Calcium	66800		500		ug/L		03/24/23 14:44	03/24/23 20:45	1
Iron	891		100		ug/L		03/24/23 14:44	03/24/23 20:45	1
Magnesium	2920		500		ug/L		03/24/23 14:44	03/24/23 20:45	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 20:45	1
Potassium	2190		1000		ug/L		03/24/23 14:44	03/24/23 20:45	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 20:45	1
Sodium	11100		2000		ug/L		03/24/23 14:44	03/24/23 20:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 09:05	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Arsenic	74.8		3.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Barium	42.0		5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:05	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:05	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 09:05	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 09:05	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 09:05	1
Zinc	182		20.0		ug/L		03/20/23 07:40	03/21/23 09:05	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-15

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56417 Date Collected: 03/08/23 10:14

Date Received: 03/17/23 10:30

Method: SW846 6010D - Me	tals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:35	1
Calcium	270000		500		ug/L		03/20/23 09:01	03/21/23 19:12	1
Iron	1940		100		ug/L		03/20/23 09:01	03/21/23 19:12	1
Magnesium	38900		500		ug/L		03/20/23 09:01	03/21/23 19:12	1
Molybdenum	21.2		10.0		ug/L		03/20/23 09:01	03/21/23 19:12	1
Potassium	14100		1000		ug/L		03/20/23 09:01	03/21/23 19:12	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:12	1
Sodium	72300		2000		ug/L		03/20/23 09:01	03/21/23 19:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:07	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Arsenic	84.0		3.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Barium	50.0		5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:07	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:07	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:07	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:07	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:07	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:07	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-16

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56429

Date Collected: 03/08/23 12:12 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 21:40	1
Calcium	74200		500		ug/L		03/20/23 09:01	03/21/23 19:22	1
Iron	92900		100		ug/L		03/20/23 09:01	03/21/23 19:22	1
Magnesium	26000		500		ug/L		03/20/23 09:01	03/21/23 19:22	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:22	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:22	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:22	1
Sodium	82900		2000		ug/L		03/20/23 09:01	03/21/23 19:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2310		100		ug/L		03/20/23 09:01	03/21/23 16:19	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Barium	245		5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Beryllium	0.965		0.500		ug/L		03/20/23 09:01	03/21/23 16:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:19	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Cobalt	19.1		0.500		ug/L		03/20/23 09:01	03/21/23 16:19	1
Lead	2.54		2.50		ug/L		03/20/23 09:01	03/21/23 16:19	1
Nickel	5.89		5.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:19	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:19	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-17

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56394 Date Collected: 02/14/23 12:33

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 21:54	1
Calcium	11200		500		ug/L		03/20/23 09:01	03/21/23 19:25	1
Iron	3120		100		ug/L		03/20/23 09:01	03/21/23 19:25	1
Magnesium	1020		500		ug/L		03/20/23 09:01	03/21/23 19:25	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:25	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:25	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:25	1
Sodium	5650		2000		ug/L		03/20/23 09:01	03/21/23 19:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1310		100		ug/L		03/20/23 09:01	03/21/23 16:23	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Arsenic	5.22		3.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Barium	76.1		5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:23	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:23	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Cobalt	0.765		0.500		ug/L		03/20/23 09:01	03/21/23 16:23	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:23	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:23	1
Zinc	23.6		20.0		ug/L		03/20/23 09:01	03/21/23 16:23	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56331

Lab Sample ID: 680-232195-18

Matrix: Water

Job ID: 680-232195-1

Date Collected: 02/14/23 13:51 Date Received: 03/17/23 10:30

Method: SW846 6010D - M	letals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:26	1
Calcium	3560		500		ug/L		03/20/23 09:01	03/21/23 19:29	1
Iron	100	U	100		ug/L		03/20/23 09:01	03/21/23 19:29	1
Magnesium	898		500		ug/L		03/20/23 09:01	03/21/23 19:29	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:29	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:29	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:29	1
Sodium	2720		2000		ug/L		03/20/23 09:01	03/21/23 19:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	793		100		ug/L		03/20/23 09:01	03/21/23 16:27	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Barium	30.1		5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:27	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:27	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Cobalt	1.58		0.500		ug/L		03/20/23 09:01	03/21/23 16:27	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:27	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:27	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:27	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-19

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56332

Date Collected: 02/14/23 15:22 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:35	1
Calcium	87900		500		ug/L		03/20/23 09:01	03/21/23 19:38	1
Iron	5240		100		ug/L		03/20/23 09:01	03/21/23 19:38	1
Magnesium	2750		500		ug/L		03/20/23 09:01	03/21/23 19:38	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:38	1
Potassium	2150		1000		ug/L		03/20/23 09:01	03/21/23 19:38	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:38	1
Sodium	11700		2000		ug/L		03/20/23 09:01	03/21/23 19:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		100		ug/L		03/20/23 09:01	03/21/23 16:31	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Barium	102		5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:31	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:31	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:31	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:31	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:31	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:31	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56395** 

Lab Sample ID: 680-232195-20

Matrix: Water

Job ID: 680-232195-1

Date Collected: 02/15/23 11:36
Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:39	1
Calcium	355000		500		ug/L		03/20/23 09:01	03/21/23 19:42	1
Iron	3970		100		ug/L		03/20/23 09:01	03/21/23 19:42	1
Magnesium	43700		500		ug/L		03/20/23 09:01	03/21/23 19:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:42	1
Potassium	9610		1000		ug/L		03/20/23 09:01	03/21/23 19:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:42	1
Sodium	71800		2000		ug/L		03/20/23 09:01	03/21/23 19:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	194		100		ug/L		03/20/23 09:01	03/21/23 16:35	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Arsenic	11.5		3.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Barium	151		5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Beryllium	1.46		0.500		ug/L		03/20/23 09:01	03/21/23 16:35	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:35	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Cobalt	18.5		0.500		ug/L		03/20/23 09:01	03/21/23 16:35	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 16:35	1
Nickel	10.1		5.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:35	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:35	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-21

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56396

Date Collected: 02/15/23 13:21 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:44	1
Calcium	226000		500		ug/L		03/20/23 09:01	03/21/23 19:51	1
Iron	23400		100		ug/L		03/20/23 09:01	03/21/23 19:51	1
Magnesium	14600		500		ug/L		03/20/23 09:01	03/21/23 19:51	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:51	1
Potassium	2050		1000		ug/L		03/20/23 09:01	03/21/23 19:51	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:51	1
Sodium	42400		2000		ug/L		03/20/23 09:01	03/21/23 19:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:54	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:24	1
Barium	149		5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:54	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:54	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Cobalt	0.565		0.500		ug/L		03/20/23 09:01	03/21/23 16:54	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:24	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:54	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:24	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:54	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-22

Client Sample ID: AF56397

Date Collected: 02/16/23 10:53 Matrix: Water

Date Received: 03/17/23 10:30

Method: SW846 6010D - N	netais (ICP) - Dissolve	u							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:49	1
Calcium	54900		500		ug/L		03/20/23 09:01	03/21/23 19:45	1
Iron	102		100		ug/L		03/20/23 09:01	03/21/23 19:45	1
Magnesium	3940		500		ug/L		03/20/23 09:01	03/21/23 19:45	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:45	1
Potassium	1830		1000		ug/L		03/20/23 09:01	03/21/23 19:45	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:45	1
Sodium	17100		2000		ug/L		03/20/23 09:01	03/21/23 19:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:46	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:16	1
Barium	34.2		5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:46	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:46	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:46	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:16	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:46	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:16	1
Zinc	114		20.0		ug/L		03/20/23 09:01	03/21/23 16:46	1

Job ID: 680-232195-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Comple ID: AFEC400

Lab Sample ID: 680-232195-23

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56400

Date Collected: 02/16/23 12:55 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 22:53	1
Calcium	264000		500		ug/L		03/20/23 09:01	03/21/23 19:48	1
Iron	783		100		ug/L		03/20/23 09:01	03/21/23 19:48	1
Magnesium	3930		500		ug/L		03/20/23 09:01	03/21/23 19:48	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:48	1
Potassium	2390		1000		ug/L		03/20/23 09:01	03/21/23 19:48	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:48	1
Sodium	13900		2000		ug/L		03/20/23 09:01	03/21/23 19:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:50	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:20	1
Barium	46.4		5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:50	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:50	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:50	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:20	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:50	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:20	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:50	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56442

Lab Sample ID: 680-232195-24 Matrix: Water

Job ID: 680-232195-1

Date Collected: 02/16/23 14:07 Date Received: 03/17/23 10:30

Method: SW846 6010D - Me	tals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:12	1
Calcium	162000		500		ug/L		03/20/23 09:01	03/21/23 19:55	1
Iron	286		100		ug/L		03/20/23 09:01	03/21/23 19:55	1
Magnesium	7610		500		ug/L		03/20/23 09:01	03/21/23 19:55	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:55	1
Potassium	4220		1000		ug/L		03/20/23 09:01	03/21/23 19:55	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:55	1
Sodium	21500		2000		ug/L		03/20/23 09:01	03/21/23 19:55	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 16:58	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Arsenic	3.62		3.00		ug/L		03/20/23 09:01	03/22/23 08:28	1
Barium	34.7		5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:58	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:58	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 16:58	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:28	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 16:58	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:28	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 16:58	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-25

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56443

Date Collected: 02/16/23 14:12 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:17	1
Calcium	166000		500		ug/L		03/20/23 09:01	03/21/23 19:58	1
Iron	359		100		ug/L		03/20/23 09:01	03/21/23 19:58	1
Magnesium	7850		500		ug/L		03/20/23 09:01	03/21/23 19:58	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:58	1
Potassium	4220		1000		ug/L		03/20/23 09:01	03/21/23 19:58	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:58	1
Sodium	21500		2000		ug/L		03/20/23 09:01	03/21/23 19:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	239		100		ug/L	<del></del>	03/20/23 09:01	03/21/23 17:02	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Arsenic	4.54		3.00		ug/L		03/20/23 09:01	03/22/23 08:32	1
Barium	39.2		5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:02	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:02	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Cobalt	0.715		0.500		ug/L		03/20/23 09:01	03/21/23 17:02	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:32	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:02	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:32	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:02	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-26

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56402

Date Collected: 02/27/23 12:47 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:21	1
Calcium	199000		500		ug/L		03/20/23 09:01	03/21/23 20:01	1
Iron	22900		100		ug/L		03/20/23 09:01	03/21/23 20:01	1
Magnesium	23600		500		ug/L		03/20/23 09:01	03/21/23 20:01	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:01	1
Potassium	11200		1000		ug/L		03/20/23 09:01	03/21/23 20:01	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:01	1
Sodium	34600		2000		ug/L		03/20/23 09:01	03/21/23 20:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	327		100		ug/L		03/20/23 09:01	03/21/23 17:06	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Arsenic	31.0		3.00		ug/L		03/20/23 09:01	03/22/23 08:36	1
Barium	77.9		5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:06	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:06	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:06	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:36	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:06	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:36	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:06	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-27

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56403

Date Collected: 02/27/23 09:57 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	70.2		50.0		ug/L		03/23/23 14:19	03/24/23 23:26	1
Calcium	645000		500		ug/L		03/20/23 09:01	03/21/23 20:04	1
Iron	22000		100		ug/L		03/20/23 09:01	03/21/23 20:04	1
Magnesium	90500		500		ug/L		03/20/23 09:01	03/21/23 20:04	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:04	1
Potassium	28700		1000		ug/L		03/20/23 09:01	03/21/23 20:04	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:04	1
Sodium	156000		2000		ug/L		03/20/23 09:01	03/21/23 20:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:10	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:40	1
Barium	318		5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:10	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:10	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:10	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:40	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:10	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:40	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:10	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-28 **Client Sample ID: AF56404** Date Collected: 02/27/23 10:02

Matrix: Water

Job ID: 680-232195-1

Date Received: 03/17/23 10:30

Method: SW846 6010D - Met	tals (ICP) - Dissolved	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	64.9		50.0		ug/L		03/23/23 14:19	03/24/23 23:31	1
Calcium	653000		500		ug/L		03/20/23 09:01	03/21/23 20:08	1
Iron	22200		100		ug/L		03/20/23 09:01	03/21/23 20:08	1
Magnesium	91700		500		ug/L		03/20/23 09:01	03/21/23 20:08	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:08	1
Potassium	28600		1000		ug/L		03/20/23 09:01	03/21/23 20:08	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:08	1
Sodium	158000		2000		ug/L		03/20/23 09:01	03/21/23 20:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:14	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:43	1
Barium	313		5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:14	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:14	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:14	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:43	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:14	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:43	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:14	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-29

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56434

Date Collected: 02/27/23 15:44 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:36	1
Calcium	60500		500		ug/L		03/20/23 09:01	03/21/23 20:17	1
Iron	2930		100		ug/L		03/20/23 09:01	03/21/23 20:17	1
Magnesium	1910		500		ug/L		03/20/23 09:01	03/21/23 20:17	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:17	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 20:17	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:17	1
Sodium	4740		2000		ug/L		03/20/23 09:01	03/21/23 20:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	929		100		ug/L		03/20/23 09:01	03/21/23 17:18	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 08:47	1
Barium	38.9		5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:18	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:18	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Cobalt	2.41		0.500		ug/L		03/20/23 09:01	03/21/23 17:18	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 08:47	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:18	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 08:47	1
Zinc	68.5		20.0		ug/L		03/20/23 09:01	03/21/23 17:18	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56433

Lab Sample ID: 680-232195-30

Matrix: Water

Job ID: 680-232195-1

Date Collected: 02/28/23 12:58 Date Received: 03/17/23 10:30

Method: SW846 6010D - Met	tals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:41	1
Calcium	448000		500		ug/L		03/20/23 09:01	03/21/23 20:21	1
Iron	16300		100		ug/L		03/20/23 09:01	03/21/23 20:21	1
Magnesium	12900		500		ug/L		03/20/23 09:01	03/21/23 20:21	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:21	1
Potassium	5750		1000		ug/L		03/20/23 09:01	03/21/23 20:21	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:21	1
Sodium	10800		2000		ug/L		03/20/23 09:01	03/21/23 20:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:22	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:03	1
Barium	53.8		5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:22	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:22	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:22	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:03	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:22	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:03	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:22	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-31

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56435 Date Collected: 02/28/23 11:44

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:45	1
Calcium	21900		500		ug/L		03/20/23 09:01	03/21/23 20:24	1
Iron	880		100		ug/L		03/20/23 09:01	03/21/23 20:24	1
Magnesium	892		500		ug/L		03/20/23 09:01	03/21/23 20:24	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:24	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 20:24	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:24	1
Sodium	3260		2000		ug/L		03/20/23 09:01	03/21/23 20:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3790		100		ug/L		03/20/23 09:01	03/21/23 17:33	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Arsenic	8.02		3.00		ug/L		03/20/23 09:01	03/22/23 09:07	1
Barium	34.7		5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:07	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:33	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Cobalt	1.29		0.500		ug/L		03/20/23 09:01	03/21/23 17:33	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:07	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:33	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:07	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:33	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-32

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56436

Date Collected: 02/28/23 10:19 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:50	1
Calcium	92200		500		ug/L		03/20/23 09:01	03/21/23 20:30	1
Iron	771		100		ug/L		03/20/23 09:01	03/21/23 20:30	1
Magnesium	2500		500		ug/L		03/20/23 09:01	03/21/23 20:30	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:30	1
Potassium	1580		1000		ug/L		03/20/23 09:01	03/21/23 20:30	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:30	1
Sodium	5430		2000		ug/L		03/20/23 09:01	03/21/23 20:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:41	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:15	1
Barium	37.2		5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:15	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:41	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:41	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:15	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:41	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:15	1
Zinc	42.9		20.0		ug/L		03/20/23 09:01	03/21/23 17:41	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-33

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56437

Date Collected: 02/28/23 10:24 Date Received: 03/17/23 10:30

Method: SW846 6010D - Metals	(ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/24/23 23:55	1
Calcium	93200		500		ug/L		03/20/23 09:01	03/21/23 20:27	1
Iron	1200		100		ug/L		03/20/23 09:01	03/21/23 20:27	1
Magnesium	1750		500		ug/L		03/20/23 09:01	03/21/23 20:27	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 20:27	1
Potassium	1260		1000		ug/L		03/20/23 09:01	03/21/23 20:27	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 20:27	1
Sodium	3590		2000		ug/L		03/20/23 09:01	03/21/23 20:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:37	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:11	1
Barium	36.8		5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:11	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:37	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:37	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:11	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:37	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:11	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:37	1

3/28/2023

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-34

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56438

Date Collected: 02/28/23 14:31 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:19	03/25/23 00:13	1
Calcium	296000		500		ug/L		03/20/23 13:39	03/21/23 11:21	1
Iron	1040		100		ug/L		03/20/23 13:39	03/21/23 11:21	1
Magnesium	28800		500		ug/L		03/20/23 13:39	03/21/23 11:21	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:21	1
Potassium	6790		1000		ug/L		03/20/23 13:39	03/21/23 11:21	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:21	1
Sodium	18000		2000		ug/L		03/20/23 13:39	03/21/23 11:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:43	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Barium	41.2		5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:43	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:43	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:43	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:43	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:43	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:43	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-35

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56409

Date Collected: 03/06/23 12:14 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	118		50.0		ug/L		03/23/23 14:19	03/25/23 00:18	1
Calcium	1140000		5000		ug/L		03/20/23 13:39	03/22/23 12:16	10
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 11:24	1
Magnesium	30500		500		ug/L		03/20/23 13:39	03/21/23 11:24	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:24	1
Potassium	15500		1000		ug/L		03/20/23 13:39	03/21/23 11:24	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:24	1
Sodium	139000		2000		ug/L		03/20/23 13:39	03/21/23 11:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:47	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Arsenic	15.2		3.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Barium	54.6		5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:47	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:47	1
Chromium	13.2		5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:47	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:47	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:47	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:47	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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Client Sample ID: AF56410 Lab Sample ID: 680-232195-36

Matrix: Water

Job ID: 680-232195-1

Date Collected: 03/06/23 12:19 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	109		50.0		ug/L	— <u>-</u>	03/23/23 14:19	03/25/23 00:23	1
Calcium	1160000		5000		ug/L		03/20/23 13:39	03/22/23 12:13	10
Iron	113		100		ug/L		03/20/23 13:39	03/21/23 11:08	1
Magnesium	30800		500		ug/L		03/20/23 13:39	03/21/23 11:08	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:08	1
Potassium	15700		1000		ug/L		03/20/23 13:39	03/21/23 11:08	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:08	1
Sodium	140000		2000		ug/L		03/20/23 13:39	03/21/23 11:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:27	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Arsenic	13.0		3.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Barium	56.5		5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:27	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:27	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:27	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:27	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:27	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:27	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56411** 

Lab Sample ID: 680-232195-37

Matrix: Water

Job ID: 680-232195-1

Date Collected: 03/06/23 11:08 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	92.4		50.0		ug/L		03/23/23 14:21	03/25/23 00:37	1
Calcium	849000		5000		ug/L		03/20/23 13:39	03/22/23 12:19	10
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 11:37	1
Magnesium	42600		500		ug/L		03/20/23 13:39	03/21/23 11:37	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:37	1
Potassium	13800		1000		ug/L		03/20/23 13:39	03/21/23 11:37	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:37	1
Sodium	126000		2000		ug/L		03/20/23 13:39	03/21/23 11:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 23:02	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Arsenic	7.06		3.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Barium	108		5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:02	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:02	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:02	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 23:02	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:02	1
Zinc	35.7		20.0		ug/L		03/20/23 13:39	03/21/23 23:02	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-38 **Client Sample ID: AF56412** Date Collected: 03/06/23 15:15

Matrix: Water

Job ID: 680-232195-1

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	64.6		50.0		ug/L		03/23/23 14:21	03/25/23 00:55	1
Calcium	698000		500		ug/L		03/20/23 13:39	03/21/23 11:30	1
Iron	1420		100		ug/L		03/20/23 13:39	03/21/23 11:30	1
Magnesium	29900		500		ug/L		03/20/23 13:39	03/21/23 11:30	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:30	1
Potassium	7230		1000		ug/L		03/20/23 13:39	03/21/23 11:30	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:30	1
Sodium	107000		2000		ug/L		03/20/23 13:39	03/21/23 11:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L	<del></del>	03/20/23 13:39	03/21/23 22:55	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Arsenic	6.71		3.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Barium	158		5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:55	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:55	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:55	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:55	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:55	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:55	1

3/28/2023

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-39

Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56413

Date Collected: 03/06/23 13:41 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:18	1
Calcium	161000		500		ug/L		03/20/23 13:39	03/21/23 11:27	1
Iron	7850		100		ug/L		03/20/23 13:39	03/21/23 11:27	1
Magnesium	11100		500		ug/L		03/20/23 13:39	03/21/23 11:27	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:27	1
Potassium	4680		1000		ug/L		03/20/23 13:39	03/21/23 11:27	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:27	1
Sodium	71500		2000		ug/L		03/20/23 13:39	03/21/23 11:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:51	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Barium	85.5		5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:51	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:51	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Cobalt	0.955		0.500		ug/L		03/20/23 13:39	03/21/23 22:51	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:51	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:51	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:51	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Lab Sample ID: 680-232195-40 Matrix: Water

Date Collected: 03/06/23 10:10 Date Received: 03/17/23 10:30

Client Sample ID: AF56430

Method: SW846 6010D - Me	tals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:23	1
Calcium	448000		500		ug/L		03/20/23 13:39	03/21/23 11:11	1
Iron	32200		100		ug/L		03/20/23 13:39	03/21/23 11:11	1
Magnesium	72300		500		ug/L		03/20/23 13:39	03/21/23 11:11	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:11	1
Potassium	6530		1000		ug/L		03/20/23 13:39	03/21/23 11:11	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:11	1
Sodium	87300		2000		ug/L		03/20/23 13:39	03/21/23 11:11	1

Method: SW846 6020B -	Metals (ICP/MS) - Disse	olved							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:31	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Barium	48.0		5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:31	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:31	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Cobalt	6.15		0.500		ug/L		03/20/23 13:39	03/21/23 22:31	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:31	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:31	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:31	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56406

Lab Sample ID: 680-232195-41 Date Collected: 03/09/23 10:29 Matrix: Water

Date Received: 03/17/23 10:30

Method: SW846 6010D - M	etals (ICP) - Dissolve	d							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:28	1
Calcium	194000		500		ug/L		03/20/23 13:39	03/21/23 11:40	1
Iron	1380		100		ug/L		03/20/23 13:39	03/21/23 11:40	1
Magnesium	17000		500		ug/L		03/20/23 13:39	03/21/23 11:40	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:40	1
Potassium	4650		1000		ug/L		03/20/23 13:39	03/21/23 11:40	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:40	1
Sodium	43100		2000		ug/L		03/20/23 13:39	03/21/23 11:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1740		100		ug/L		03/20/23 13:39	03/21/23 23:06	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Barium	38.2		5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:06	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:06	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Cobalt	1.83		0.500		ug/L		03/20/23 13:39	03/21/23 23:06	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 23:06	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:06	1
Zinc	40.6		20.0		ug/L		03/20/23 13:39	03/21/23 23:06	1

Job ID: 680-232195-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-42 Matrix: Water

Job ID: 680-232195-1

Client Sample ID: AF56407 Date Collected: 03/09/23 10:34

Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:32	1
Calcium	210000		500		ug/L		03/20/23 13:39	03/21/23 11:43	1
Iron	1430		100		ug/L		03/20/23 13:39	03/21/23 11:43	1
Magnesium	18500		500		ug/L		03/20/23 13:39	03/21/23 11:43	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:43	1
Potassium	5200		1000		ug/L		03/20/23 13:39	03/21/23 11:43	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:43	1
Sodium	46500		2000		ug/L		03/20/23 13:39	03/21/23 11:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1590		100		ug/L		03/20/23 13:39	03/21/23 23:10	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Barium	38.7		5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:10	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 23:10	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Cobalt	2.01		0.500		ug/L		03/20/23 13:39	03/21/23 23:10	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 23:10	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 23:10	1
Zinc	28.0		20.0		ug/L		03/20/23 13:39	03/21/23 23:10	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Client Sample ID: AF56418** 

Lab Sample ID: 680-232195-43

Matrix: Water

Date Collected: 03/09/23 12:07 Date Received: 03/17/23 10:30

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	87.9	50.0		ug/L		03/23/23 14:21	03/25/23 01:37	1
Calcium	95500	500		ug/L		03/20/23 13:39	03/21/23 11:34	1
Iron	788	100		ug/L		03/20/23 13:39	03/21/23 11:34	1
Magnesium	7530	500		ug/L		03/20/23 13:39	03/21/23 11:34	1
Molybdenum	92.0	10.0		ug/L		03/20/23 13:39	03/21/23 11:34	1
Potassium	7660	1000		ug/L		03/20/23 13:39	03/21/23 11:34	1
Selenium	20.0 U	J 20.0		ug/L		03/20/23 13:39	03/21/23 11:34	1
Sodium	25300	2000		ug/L		03/20/23 13:39	03/21/23 11:34	1

Method: SW846 6020B -   Analyte	, ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Kesuit	Qualifier		MIDL					DII Fac
Aluminum	130		100		ug/L		03/20/23 13:39	03/21/23 22:59	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Arsenic	229		3.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Barium	133		5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:59	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:59	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Cobalt	2.16		0.500		ug/L		03/20/23 13:39	03/21/23 22:59	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:59	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:59	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:59	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232195-44

Job ID: 680-232195-1

Matrix: Water

Client Sample ID: AF56422

Date Collected: 03/09/23 13:19 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:21	03/25/23 01:42	1
Calcium	248000		500		ug/L		03/20/23 13:39	03/21/23 11:05	1
Iron	6050		100		ug/L		03/20/23 13:39	03/21/23 11:05	1
Magnesium	8900		500		ug/L		03/20/23 13:39	03/21/23 11:05	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:05	1
Potassium	3850		1000		ug/L		03/20/23 13:39	03/21/23 11:05	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:05	1
Sodium	73300		2000		ug/L		03/20/23 13:39	03/21/23 11:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:23	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Arsenic	3.54		3.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Barium	104		5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:23	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:23	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:23	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:23	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:23	1
Zinc	48.0		20.0		ug/L		03/20/23 13:39	03/21/23 22:23	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 604819

Prep Type: Total/NA

Prep Batch: 604819

Prep Type: Total/NA

Prep Batch: 604820

Client Sample ID: Method Blank

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 160-604817/1-A

Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 605060 Prep Batch: 604817

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Lithium 50.0 U 50.0 ug/L 03/23/23 14:17 03/24/23 19:15

Lab Sample ID: LCS 160-604817/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 605060

Prep Batch: 604817 Spike LCS LCS %Rec Result Qualifier Unit D %Rec Limits

Analyte Added Lithium 100 104.4 ug/L 104 80 - 120

Lab Sample ID: MB 160-604819/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 605060

MB MB

Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Lithium 50.0 U 50.0 03/23/23 14:19 03/24/23 21:45 ug/L

Lab Sample ID: LCS 160-604819/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 605060

LCS LCS Spike %Rec

Added Analyte Result Qualifier Unit %Rec Limits Lithium 100 111.0 80 - 120 ug/L

Lab Sample ID: MB 160-604820/1-A

Matrix: Water

Analysis Batch: 605060

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Lithium 50.0 U 50.0 ug/L 03/23/23 14:21 03/25/23 00:28

Lab Sample ID: LCS 160-604820/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 605060 Spike LCS LCS %Rec

Added Analyte Result Qualifier Unit D %Rec Limits Lithium 100 112.0 ug/L 112 80 - 120

Lab Sample ID: MB 680-768608/1-A

Client Sample ID: Method Blank Matrix: Water **Prep Type: Total Recoverable** Analysis Batch: 768929 **Prep Batch: 768608** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 10:42	1
Magnesium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:42	1
Potassium	1000	U	1000		ug/L		03/20/23 13:39	03/21/23 10:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:42	1
Sodium	2000	U	2000		ug/L		03/20/23 13:39	03/21/23 10:42	1
Iron Magnesium Molybdenum Potassium Selenium	100 500 10.0 1000 20.0	U U U U	100 500 10.0 1000 20.0		ug/L ug/L ug/L ug/L ug/L		03/20/23 13:39 03/20/23 13:39 03/20/23 13:39 03/20/23 13:39 03/20/23 13:39	03/21/23 10:42 03/21/23 10:42 03/21/23 10:42 03/21/23 10:42 03/21/23 10:42	

**Eurofins Savannah** 

Prep Type: Total/NA Prep Batch: 604820

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

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

Lab Sample ID: LCS 680-768608/2-A Matrix: Water

Analysis Batch: 768929

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

Prep Batch: 768608

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	5036		ug/L		101	80 - 120	
Iron	5000	5196		ug/L		104	80 - 120	
Magnesium	5010	5075		ug/L		101	80 - 120	
Molybdenum	100	101.3		ug/L		101	80 - 120	
Potassium	6970	7195		ug/L		103	80 - 120	
Selenium	100	91.14		ug/L		91	80 - 120	
Sodium	5050	4981		ug/L		99	80 - 120	

Lab Sample ID: MB 680-768859/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 768859

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1
Iron	100	U	100		ug/L		03/20/23 09:01	03/21/23 19:06	1
Magnesium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:06	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:06	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:06	1
Sodium	2000	U	2000		ug/L		03/20/23 09:01	03/21/23 19:06	1

Lab Sample ID: LCS 680-768859/2-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

Prep Batch: 768859

7								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	5013		ug/L		100	80 - 120	
Iron	5000	5131		ug/L		103	80 - 120	
Magnesium	5010	5094		ug/L		102	80 - 120	
Molybdenum	100	100.7		ug/L		101	80 - 120	
Potassium	6970	7245		ug/L		104	80 - 120	
Selenium	100	95.19		ug/L		95	80 - 120	
Sodium	5050	5031		ug/L		100	80 - 120	

Lab Sample ID: MB 680-769547/1-A

Matrix: Water

Analysis Batch: 769727

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

Prep Batch: 769547

Allalysis Datell. 103121								i iep bateii.	103341
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/24/23 14:44	03/24/23 19:40	1
Iron	100	U	100		ug/L		03/24/23 14:44	03/24/23 19:40	1
Magnesium	500	U	500		ug/L		03/24/23 14:44	03/24/23 19:40	1
Molybdenum	10.0	U	10.0		ug/L		03/24/23 14:44	03/24/23 19:40	1
Potassium	1000	U	1000		ug/L		03/24/23 14:44	03/24/23 19:40	1
Selenium	20.0	U	20.0		ug/L		03/24/23 14:44	03/24/23 19:40	1
Sodium	2000	U	2000		ug/L		03/24/23 14:44	03/24/23 19:40	1
Molybdenum Potassium Selenium	10.0 1000 20.0	U U U	10.0 1000 20.0		ug/L ug/L ug/L		03/24/23 14:44 03/24/23 14:44 03/24/23 14:44	03/24/23 19:40 03/24/23 19:40 03/24/23 19:40	1 1 1 1

**Eurofins Savannah** 

Job ID: 680-232195-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: LCS 680-769547/2-A

Lab Sample ID: 680-232195-17 MS

Client Sample ID: AF56394

Client Sample ID: Lab Control Sample

### Method: 6010D - Metals (ICP) (Continued)

Matrix: Water Analysis Batch: 769727						Prep	Type: Total R Prep Bat	ecoverable tch: 769547
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4687		ug/L		94	80 - 120	
Iron	5000	4647		ug/L		93	80 - 120	
Magnesium	5010	4712		ug/L		94	80 - 120	
Molybdenum	100	94.36		ug/L		94	80 - 120	
Potassium	6970	6849		ug/L		98	80 - 120	
Selenium	100	88.77		ug/L		89	80 - 120	
Sodium	5050	4885		ug/L		97	80 - 120	

Matrix: Water										ype: Dissolved	
Analysis Batch: 605060									Prep	Batch: 604819	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Lithium	50.0	U	100	109.8		ua/l		110	75 - 125		

Lab Sample ID: 680-232195-17 MSD								CI	ient Sampl	م ID· ۸F	5630/
-								Cil	•		
Matrix: Water									Prep Ty	•	
Analysis Batch: 605060									Prep I	Batch: 6	04819
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	50.0	U	100	105.2		ug/L		105	75 - 125	4	20

Lab Sample ID: 680-232195-37 MS								CI	ient Samp	le ID: AF56411
Matrix: Water									Prep Ty	pe: Dissolved
Analysis Batch: 605060									Prep	Batch: 604820
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lithium	92.4		100	217.4		ug/L		125	75 - 125	

Lab Sample ID: 680-232195-33	7 MSD							CI	ient Sampl	e ID: AF	56411
Matrix: Water									Prep Ty	pe: Diss	olved
Analysis Batch: 605060									Prep I	Batch: 6	04820
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	92.4		100	216.3		ua/L		124	75 - 125		20

Lab Sample ID: 680-232195-15	5 MS							CI	ient Samp	le ID: AF56417
Matrix: Water									Prep Ty	pe: Dissolved
Analysis Batch: 768929									Prep	Batch: 768859
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	270000		5000	260000	4	ua/l		-196	75 125	

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	270000		5000	260000	4	ug/L		-196	75 - 125	
Iron	1940		5000	6853		ug/L		98	75 - 125	
Magnesium	38900		5010	42060	4	ug/L		62	75 - 125	
Molybdenum	21.2		100	121.2		ug/L		100	75 - 125	
Potassium	14100		6970	20270		ug/L		89	75 - 125	
Selenium	20.0	U	100	90.82		ug/L		91	75 - 125	
Sodium	72300		5050	73490	4	ug/L		25	75 - 125	

Eurofins Savannah

3/28/2023

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

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

Lab Sample ID: 680-232195-15 MSD Client Sample ID: AF56417

Matrix: Water

Analysis Batch: 768929

**Prep Type: Dissolved** Prep Batch: 768859

Analysis Batch. 100525									i icp i	,000	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	270000		5000	255000	4	ug/L		-296	75 - 125	2	20
Iron	1940		5000	6800		ug/L		97	75 - 125	1	20
Magnesium	38900		5010	41060	4	ug/L		42	75 - 125	2	20
Molybdenum	21.2		100	119.7		ug/L		99	75 - 125	1	20
Potassium	14100		6970	20170		ug/L		88	75 - 125	0	20
Selenium	20.0	U	100	95.36		ug/L		95	75 - 125	5	20
Sodium	72300		5050	71860	4	ug/L		-8	75 - 125	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-768492/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 768799 Prep Batch: 768492

Alialysis Datell. 100133								i iep bateii.	100432
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 07:40	03/21/23 07:15	1
Antimony	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Barium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 07:15	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 07:15	1
Chromium	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 07:40	03/21/23 07:15	1
Lead	2.50	U	2.50		ug/L		03/20/23 07:40	03/21/23 07:15	1
Nickel	5.00	U	5.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Silver	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Thallium	1.00	U	1.00		ug/L		03/20/23 07:40	03/21/23 07:15	1
Zinc	20.0	U	20.0		ug/L		03/20/23 07:40	03/21/23 07:15	1

Lab Sample ID: LCS 680-768492/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 768799							Prep Batch: 7684	492
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	4932		ug/L		99	80 - 120	
Antimony	50.0	47.96		ug/L		96	80 - 120	
Arsenic	100	100.2		ug/L		100	80 - 120	
Barium	100	97.57		ug/L		98	80 - 120	
Beryllium	50.0	49.66		ug/L		99	80 - 120	
Cadmium	50.0	48.34		ug/L		97	80 - 120	
Chromium	100	101.0		ug/L		101	80 - 120	
Cobalt	50.0	50.30		ug/L		101	80 - 120	
Lead	505	492.9		ug/L		98	80 - 120	
Nickel	100	98.30		ug/L		98	80 - 120	
Silver	50.0	47.86		ug/L		96	80 - 120	
Thallium	50.0	47.36		ug/L		95	80 - 120	
Zinc	100	104.8		ug/L		105	80 - 120	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-768540/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 768540

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 15:59	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 15:59	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 15:59	1

Lab Sample ID: LCS 680-768540/2-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

Prep Batch: 768540

Analysis batch. 700545							i iep bat	CII. 7005 <del>4</del> 0
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	5338		ug/L		107	80 - 120	
Antimony	50.0	51.80		ug/L		104	80 - 120	
Arsenic	100	103.7		ug/L		104	80 - 120	
Barium	100	102.1		ug/L		102	80 - 120	
Beryllium	50.0	54.66		ug/L		109	80 - 120	
Cadmium	50.0	51.98		ug/L		104	80 - 120	
Chromium	100	108.2		ug/L		108	80 - 120	
Cobalt	50.0	53.54		ug/L		107	80 - 120	
Lead	505	507.5		ug/L		101	80 - 120	
Nickel	100	105.2		ug/L		105	80 - 120	
Silver	50.0	54.86		ug/L		110	80 - 120	
Thallium	50.0	49.92		ug/L		100	80 - 120	
Zinc	100	110.6		ua/l		111	80 120	

Lab Sample ID: MB 680-768613/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 768613** 

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 21:56	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Barium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 21:56	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1

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Job ID: 680-232195-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-768613/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

**Prep Batch: 768613** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 21:56	1

MB MB

Lab Sample ID: LCS 680-768613/2-A Client Sample ID: Lab Control Sample

Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768945							Prep Bat	tch: 768613
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	5081		ug/L		102	80 - 120	
Antimony	50.0	50.30		ug/L		101	80 - 120	
Arsenic	100	96.86		ug/L		97	80 - 120	
Barium	100	96.16		ug/L		96	80 - 120	
Beryllium	50.0	49.35		ug/L		99	80 - 120	
Cadmium	50.0	49.86		ug/L		100	80 - 120	
Chromium	100	98.60		ug/L		99	80 - 120	
Cobalt	50.0	50.99		ug/L		102	80 - 120	
Lead	505	475.9		ug/L		94	80 - 120	
Nickel	100	96.51		ug/L		97	80 - 120	
Silver	50.0	49.14		ug/L		98	80 - 120	
Thallium	50.0	47.31		ug/L		95	80 - 120	
Zinc	100	101.1		ug/L		101	80 - 120	

Lab Sample ID: 680-232195-15 MS Client Sample ID: AF56417 Matrix: Water

Analysis Batch: 768945

**Prep Type: Dissolved** Prep Batch: 768540

Alialysis balcii. 100945									гтер Ба	ILCII: 100040
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	100	U	5000	5266		ug/L		104	75 - 125	
Antimony	5.00	U	50.0	51.47		ug/L		103	75 - 125	
Arsenic	84.0		100	178.9		ug/L		95	75 - 125	
Barium	50.0		100	145.4		ug/L		95	75 - 125	
Beryllium	0.500	U	50.0	54.31		ug/L		109	75 - 125	
Cadmium	0.500	U	50.0	51.03		ug/L		102	75 - 125	
Chromium	5.00	U	100	107.5		ug/L		106	75 - 125	
Cobalt	0.500	U	50.0	52.11		ug/L		104	75 - 125	
Lead	2.50	U	505	509.1		ug/L		101	75 - 125	
Nickel	5.00	U	100	102.7		ug/L		103	75 - 125	
Silver	1.00	U	50.0	50.31		ug/L		101	75 - 125	
Thallium	1.00	U	50.0	50.73		ug/L		101	75 - 125	
Zinc	20.0	U	100	101.3		ug/L		97	75 - 125	

Lab Sample ID: 680-232195-15 MSD

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56417 **Prep Type: Dissolved** 

Prep Batch: 768540

П	Allalysis Datell. 100545									i icp	Dateii. 1	00570
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Aluminum	100	U	5000	5228		ug/L		104	75 - 125	1	20
	Antimony	5.00	U	50.0	49.87		ug/L		100	75 - 125	3	20
	Arsenic	84.0		100	181.5		ug/L		98	75 - 125	1	20

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# **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-232195-15 MSD	Client Sample ID: AF56417
Matrix: Water	Prep Type: Dissolved
Analysis Batch: 768945	Prep Batch: 768540

Analysis Batch: 768945									Prep i	Batch: /	68540
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Barium	50.0		100	145.6		ug/L		96	75 - 125		20
Beryllium	0.500	U	50.0	52.47		ug/L		105	75 - 125	3	20
Cadmium	0.500	U	50.0	49.32		ug/L		99	75 - 125	3	20
Chromium	5.00	U	100	104.1		ug/L		103	75 - 125	3	20
Cobalt	0.500	U	50.0	52.90		ug/L		106	75 - 125	2	20
Lead	2.50	U	505	507.0		ug/L		100	75 - 125	0	20
Nickel	5.00	U	100	99.09		ug/L		99	75 - 125	4	20
Silver	1.00	U	50.0	50.77		ug/L		102	75 - 125	1	20
Thallium	1.00	U	50.0	50.56		ug/L		101	75 - 125	0	20
Zinc	20.0	U	100	102.5		ug/L		98	75 <sub>-</sub> 125	1	20

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Job ID: 680-232195-1

#### Metals

Prep Batch: 604817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-232195-1	AF56421	Dissolved	Water	3010A	
680-232195-2	AF56424	Dissolved	Water	3010A	
680-232195-3	AF56439	Dissolved	Water	3010A	
680-232195-4	AF56441	Dissolved	Water	3010A	
680-232195-5	AF56414	Dissolved	Water	3010A	
680-232195-6	AF56423	Dissolved	Water	3010A	
680-232195-7	AF56428	Dissolved	Water	3010A	
680-232195-8	AF56419	Dissolved	Water	3010A	
680-232195-9	AF56425	Dissolved	Water	3010A	
680-232195-10	AF56426	Dissolved	Water	3010A	
680-232195-11	AF56427	Dissolved	Water	3010A	
680-232195-12	AF56408	Dissolved	Water	3010A	
680-232195-13	AF56415	Dissolved	Water	3010A	
680-232195-14	AF56416	Dissolved	Water	3010A	
680-232195-15	AF56417	Dissolved	Water	3010A	
680-232195-16	AF56429	Dissolved	Water	3010A	
MB 160-604817/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 604819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-17	AF56394	Dissolved	Water	3010A	
680-232195-18	AF56331	Dissolved	Water	3010A	
680-232195-19	AF56332	Dissolved	Water	3010A	
680-232195-20	AF56395	Dissolved	Water	3010A	
680-232195-21	AF56396	Dissolved	Water	3010A	
680-232195-22	AF56397	Dissolved	Water	3010A	
680-232195-23	AF56400	Dissolved	Water	3010A	
680-232195-24	AF56442	Dissolved	Water	3010A	
680-232195-25	AF56443	Dissolved	Water	3010A	
680-232195-26	AF56402	Dissolved	Water	3010A	
680-232195-27	AF56403	Dissolved	Water	3010A	
680-232195-28	AF56404	Dissolved	Water	3010A	
680-232195-29	AF56434	Dissolved	Water	3010A	
680-232195-30	AF56433	Dissolved	Water	3010A	
680-232195-31	AF56435	Dissolved	Water	3010A	
680-232195-32	AF56436	Dissolved	Water	3010A	
680-232195-33	AF56437	Dissolved	Water	3010A	
680-232195-34	AF56438	Dissolved	Water	3010A	
680-232195-35	AF56409	Dissolved	Water	3010A	
680-232195-36	AF56410	Dissolved	Water	3010A	
MB 160-604819/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604819/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232195-17 MS	AF56394	Dissolved	Water	3010A	
680-232195-17 MSD	AF56394	Dissolved	Water	3010A	

Prep Batch: 604820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-37	AF56411	Dissolved	Water	3010A	
680-232195-38	AF56412	Dissolved	Water	3010A	
680-232195-39	AF56413	Dissolved	Water	3010A	

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Job ID: 680-232195-1

#### **Metals (Continued)**

#### Prep Batch: 604820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-40	AF56430	Dissolved	Water	3010A	
680-232195-41	AF56406	Dissolved	Water	3010A	
680-232195-42	AF56407	Dissolved	Water	3010A	
680-232195-43	AF56418	Dissolved	Water	3010A	
680-232195-44	AF56422	Dissolved	Water	3010A	
MB 160-604820/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604820/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232195-37 MS	AF56411	Dissolved	Water	3010A	
680-232195-37 MSD	AF56411	Dissolved	Water	3010A	

#### Analysis Batch: 605060

₋ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
80-232195-1	AF56421	Dissolved	Water	6010D	60481
880-232195-2	AF56424	Dissolved	Water	6010D	60481
880-232195-3	AF56439	Dissolved	Water	6010D	60481
80-232195-4	AF56441	Dissolved	Water	6010D	60481
80-232195-5	AF56414	Dissolved	Water	6010D	60481
880-232195-6	AF56423	Dissolved	Water	6010D	60481
880-232195-7	AF56428	Dissolved	Water	6010D	60481
80-232195-8	AF56419	Dissolved	Water	6010D	60481
80-232195-9	AF56425	Dissolved	Water	6010D	60481
80-232195-10	AF56426	Dissolved	Water	6010D	60481
80-232195-11	AF56427	Dissolved	Water	6010D	60481
80-232195-12	AF56408	Dissolved	Water	6010D	60481
80-232195-13	AF56415	Dissolved	Water	6010D	60481
80-232195-14	AF56416	Dissolved	Water	6010D	60481
80-232195-15	AF56417	Dissolved	Water	6010D	60481
880-232195-16	AF56429	Dissolved	Water	6010D	60481
80-232195-17	AF56394	Dissolved	Water	6010D	60481
80-232195-18	AF56331	Dissolved	Water	6010D	60481
80-232195-19	AF56332	Dissolved	Water	6010D	60481
80-232195-20	AF56395	Dissolved	Water	6010D	60481
80-232195-21	AF56396	Dissolved	Water	6010D	60481
80-232195-22	AF56397	Dissolved	Water	6010D	60481
80-232195-23	AF56400	Dissolved	Water	6010D	60481
80-232195-24	AF56442	Dissolved	Water	6010D	60481
80-232195-25	AF56443	Dissolved	Water	6010D	60481
80-232195-26	AF56402	Dissolved	Water	6010D	60481
80-232195-27	AF56403	Dissolved	Water	6010D	60481
80-232195-28	AF56404	Dissolved	Water	6010D	60481
80-232195-29	AF56434	Dissolved	Water	6010D	60481
80-232195-30	AF56433	Dissolved	Water	6010D	60481
80-232195-31	AF56435	Dissolved	Water	6010D	60481
80-232195-32	AF56436	Dissolved	Water	6010D	60481
80-232195-33	AF56437	Dissolved	Water	6010D	60481
80-232195-34	AF56438	Dissolved	Water	6010D	60481
80-232195-35	AF56409	Dissolved	Water	6010D	60481
80-232195-36	AF56410	Dissolved	Water	6010D	60481
80-232195-37	AF56411	Dissolved	Water	6010D	60482
80-232195-38	AF56412	Dissolved	Water	6010D	60482
880-232195-39	AF56413	Dissolved	Water	6010D	60482

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Job ID: 680-232195-1

#### **Metals (Continued)**

#### Analysis Batch: 605060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-40	AF56430	Dissolved	Water	6010D	604820
680-232195-41	AF56406	Dissolved	Water	6010D	604820
680-232195-42	AF56407	Dissolved	Water	6010D	604820
680-232195-43	AF56418	Dissolved	Water	6010D	604820
680-232195-44	AF56422	Dissolved	Water	6010D	604820
MB 160-604817/1-A	Method Blank	Total/NA	Water	6010D	604817
MB 160-604819/1-A	Method Blank	Total/NA	Water	6010D	604819
MB 160-604820/1-A	Method Blank	Total/NA	Water	6010D	604820
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	6010D	604817
LCS 160-604819/2-A	Lab Control Sample	Total/NA	Water	6010D	604819
LCS 160-604820/2-A	Lab Control Sample	Total/NA	Water	6010D	604820
680-232195-17 MS	AF56394	Dissolved	Water	6010D	604819
680-232195-17 MSD	AF56394	Dissolved	Water	6010D	604819
680-232195-37 MS	AF56411	Dissolved	Water	6010D	604820
680-232195-37 MSD	AF56411	Dissolved	Water	6010D	604820

#### Prep Batch: 768492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	3005A	
680-232195-2	AF56424	Dissolved	Water	3005A	
680-232195-3	AF56439	Dissolved	Water	3005A	
680-232195-4	AF56441	Dissolved	Water	3005A	
680-232195-5	AF56414	Dissolved	Water	3005A	
680-232195-6	AF56423	Dissolved	Water	3005A	
680-232195-7	AF56428	Dissolved	Water	3005A	
680-232195-8	AF56419	Dissolved	Water	3005A	
680-232195-9	AF56425	Dissolved	Water	3005A	
680-232195-10	AF56426	Dissolved	Water	3005A	
680-232195-11	AF56427	Dissolved	Water	3005A	
680-232195-12	AF56408	Dissolved	Water	3005A	
680-232195-13	AF56415	Dissolved	Water	3005A	
680-232195-14	AF56416	Dissolved	Water	3005A	
MB 680-768492/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768492/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Prep Batch: 768540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	3005A	
680-232195-16	AF56429	Dissolved	Water	3005A	
680-232195-17	AF56394	Dissolved	Water	3005A	
680-232195-18	AF56331	Dissolved	Water	3005A	
680-232195-19	AF56332	Dissolved	Water	3005A	
680-232195-20	AF56395	Dissolved	Water	3005A	
680-232195-21	AF56396	Dissolved	Water	3005A	
680-232195-22	AF56397	Dissolved	Water	3005A	
680-232195-23	AF56400	Dissolved	Water	3005A	
680-232195-24	AF56442	Dissolved	Water	3005A	
680-232195-25	AF56443	Dissolved	Water	3005A	
680-232195-26	AF56402	Dissolved	Water	3005A	
680-232195-27	AF56403	Dissolved	Water	3005A	
680-232195-28	AF56404	Dissolved	Water	3005A	

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#### **Metals (Continued)**

#### Prep Batch: 768540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-29	AF56434	Dissolved	Water	3005A	
680-232195-30	AF56433	Dissolved	Water	3005A	
680-232195-31	AF56435	Dissolved	Water	3005A	
680-232195-32	AF56436	Dissolved	Water	3005A	
680-232195-33	AF56437	Dissolved	Water	3005A	
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232195-15 MS	AF56417	Dissolved	Water	3005A	
680-232195-15 MSD	AF56417	Dissolved	Water	3005A	

#### **Prep Batch: 768608**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-34	AF56438	Dissolved	Water	3005A	
680-232195-35	AF56409	Dissolved	Water	3005A	
680-232195-36	AF56410	Dissolved	Water	3005A	
680-232195-37	AF56411	Dissolved	Water	3005A	
680-232195-38	AF56412	Dissolved	Water	3005A	
680-232195-39	AF56413	Dissolved	Water	3005A	
680-232195-40	AF56430	Dissolved	Water	3005A	
680-232195-41	AF56406	Dissolved	Water	3005A	
680-232195-42	AF56407	Dissolved	Water	3005A	
680-232195-43	AF56418	Dissolved	Water	3005A	
680-232195-44	AF56422	Dissolved	Water	3005A	
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Prep Batch: 768613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-232195-34	AF56438	Dissolved	Water	3005A	
680-232195-35	AF56409	Dissolved	Water	3005A	
680-232195-36	AF56410	Dissolved	Water	3005A	
680-232195-37	AF56411	Dissolved	Water	3005A	
680-232195-38	AF56412	Dissolved	Water	3005A	
680-232195-39	AF56413	Dissolved	Water	3005A	
680-232195-40	AF56430	Dissolved	Water	3005A	
680-232195-41	AF56406	Dissolved	Water	3005A	
680-232195-42	AF56407	Dissolved	Water	3005A	
680-232195-43	AF56418	Dissolved	Water	3005A	
680-232195-44	AF56422	Dissolved	Water	3005A	
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Analysis Batch: 768799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	6020B	768492
680-232195-2	AF56424	Dissolved	Water	6020B	768492
680-232195-3	AF56439	Dissolved	Water	6020B	768492
680-232195-4	AF56441	Dissolved	Water	6020B	768492
680-232195-5	AF56414	Dissolved	Water	6020B	768492
680-232195-6	AF56423	Dissolved	Water	6020B	768492
680-232195-7	AF56428	Dissolved	Water	6020B	768492

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#### **Metals (Continued)**

#### Analysis Batch: 768799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-8	AF56419	Dissolved	Water	6020B	768492
680-232195-9	AF56425	Dissolved	Water	6020B	768492
680-232195-10	AF56426	Dissolved	Water	6020B	768492
680-232195-11	AF56427	Dissolved	Water	6020B	768492
680-232195-12	AF56408	Dissolved	Water	6020B	768492
680-232195-13	AF56415	Dissolved	Water	6020B	768492
680-232195-14	AF56416	Dissolved	Water	6020B	768492
MB 680-768492/1-A	Method Blank	Total Recoverable	Water	6020B	768492
LCS 680-768492/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768492

#### Prep Batch: 768859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-232195-15	AF56417	Dissolved	Water	3005A	_
680-232195-16	AF56429	Dissolved	Water	3005A	
680-232195-17	AF56394	Dissolved	Water	3005A	
680-232195-18	AF56331	Dissolved	Water	3005A	
680-232195-19	AF56332	Dissolved	Water	3005A	
680-232195-20	AF56395	Dissolved	Water	3005A	
680-232195-21	AF56396	Dissolved	Water	3005A	
680-232195-22	AF56397	Dissolved	Water	3005A	
680-232195-23	AF56400	Dissolved	Water	3005A	
680-232195-24	AF56442	Dissolved	Water	3005A	
680-232195-25	AF56443	Dissolved	Water	3005A	
680-232195-26	AF56402	Dissolved	Water	3005A	
680-232195-27	AF56403	Dissolved	Water	3005A	
680-232195-28	AF56404	Dissolved	Water	3005A	
680-232195-29	AF56434	Dissolved	Water	3005A	
680-232195-30	AF56433	Dissolved	Water	3005A	
680-232195-31	AF56435	Dissolved	Water	3005A	
680-232195-32	AF56436	Dissolved	Water	3005A	
680-232195-33	AF56437	Dissolved	Water	3005A	
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232195-15 MS	AF56417	Dissolved	Water	3005A	
680-232195-15 MSD	AF56417	Dissolved	Water	3005A	

#### Analysis Batch: 768929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	6010D	768859
680-232195-16	AF56429	Dissolved	Water	6010D	768859
680-232195-17	AF56394	Dissolved	Water	6010D	768859
680-232195-18	AF56331	Dissolved	Water	6010D	768859
680-232195-19	AF56332	Dissolved	Water	6010D	768859
680-232195-20	AF56395	Dissolved	Water	6010D	768859
680-232195-21	AF56396	Dissolved	Water	6010D	768859
680-232195-22	AF56397	Dissolved	Water	6010D	768859
680-232195-23	AF56400	Dissolved	Water	6010D	768859
680-232195-24	AF56442	Dissolved	Water	6010D	768859
680-232195-25	AF56443	Dissolved	Water	6010D	768859
680-232195-26	AF56402	Dissolved	Water	6010D	768859
680-232195-27	AF56403	Dissolved	Water	6010D	768859

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#### **Metals (Continued)**

#### Analysis Batch: 768929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-28	AF56404	Dissolved	Water	6010D	768859
680-232195-29	AF56434	Dissolved	Water	6010D	768859
680-232195-30	AF56433	Dissolved	Water	6010D	768859
680-232195-31	AF56435	Dissolved	Water	6010D	768859
680-232195-32	AF56436	Dissolved	Water	6010D	768859
680-232195-33	AF56437	Dissolved	Water	6010D	768859
680-232195-34	AF56438	Dissolved	Water	6010D	768608
680-232195-35	AF56409	Dissolved	Water	6010D	768608
680-232195-36	AF56410	Dissolved	Water	6010D	768608
680-232195-37	AF56411	Dissolved	Water	6010D	768608
680-232195-38	AF56412	Dissolved	Water	6010D	768608
680-232195-39	AF56413	Dissolved	Water	6010D	768608
680-232195-40	AF56430	Dissolved	Water	6010D	768608
680-232195-41	AF56406	Dissolved	Water	6010D	768608
680-232195-42	AF56407	Dissolved	Water	6010D	768608
680-232195-43	AF56418	Dissolved	Water	6010D	768608
680-232195-44	AF56422	Dissolved	Water	6010D	768608
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	6010D	768608
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	6010D	768859
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768608
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768859
680-232195-15 MS	AF56417	Dissolved	Water	6010D	768859
680-232195-15 MSD	AF56417	Dissolved	Water	6010D	768859

#### Analysis Batch: 768945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-15	AF56417	Dissolved	Water	6020B	768540
680-232195-16	AF56429	Dissolved	Water	6020B	768540
680-232195-17	AF56394	Dissolved	Water	6020B	768540
680-232195-18	AF56331	Dissolved	Water	6020B	768540
680-232195-19	AF56332	Dissolved	Water	6020B	768540
680-232195-20	AF56395	Dissolved	Water	6020B	768540
680-232195-21	AF56396	Dissolved	Water	6020B	768540
680-232195-22	AF56397	Dissolved	Water	6020B	768540
680-232195-23	AF56400	Dissolved	Water	6020B	768540
680-232195-24	AF56442	Dissolved	Water	6020B	768540
680-232195-25	AF56443	Dissolved	Water	6020B	768540
680-232195-26	AF56402	Dissolved	Water	6020B	768540
680-232195-27	AF56403	Dissolved	Water	6020B	768540
680-232195-28	AF56404	Dissolved	Water	6020B	768540
680-232195-29	AF56434	Dissolved	Water	6020B	768540
680-232195-30	AF56433	Dissolved	Water	6020B	768540
680-232195-31	AF56435	Dissolved	Water	6020B	768540
680-232195-32	AF56436	Dissolved	Water	6020B	768540
680-232195-33	AF56437	Dissolved	Water	6020B	768540
680-232195-34	AF56438	Dissolved	Water	6020B	768613
680-232195-35	AF56409	Dissolved	Water	6020B	768613
680-232195-36	AF56410	Dissolved	Water	6020B	768613
680-232195-37	AF56411	Dissolved	Water	6020B	768613
680-232195-38	AF56412	Dissolved	Water	6020B	768613
680-232195-39	AF56413	Dissolved	Water	6020B	768613

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#### **Metals (Continued)**

Analysis Batch: 768945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-40	AF56430	Dissolved	Water	6020B	768613
680-232195-41	AF56406	Dissolved	Water	6020B	768613
680-232195-42	AF56407	Dissolved	Water	6020B	768613
680-232195-43	AF56418	Dissolved	Water	6020B	768613
680-232195-44	AF56422	Dissolved	Water	6020B	768613
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	6020B	768540
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	6020B	768613
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768540
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768613
680-232195-15 MS	AF56417	Dissolved	Water	6020B	768540
680-232195-15 MSD	AF56417	Dissolved	Water	6020B	768540

Analysis Batch: 769014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-21	AF56396	Dissolved	Water	6020B	768540
680-232195-22	AF56397	Dissolved	Water	6020B	768540
680-232195-23	AF56400	Dissolved	Water	6020B	768540
680-232195-24	AF56442	Dissolved	Water	6020B	768540
680-232195-25	AF56443	Dissolved	Water	6020B	768540
680-232195-26	AF56402	Dissolved	Water	6020B	768540
680-232195-27	AF56403	Dissolved	Water	6020B	768540
680-232195-28	AF56404	Dissolved	Water	6020B	768540
680-232195-29	AF56434	Dissolved	Water	6020B	768540
680-232195-30	AF56433	Dissolved	Water	6020B	768540
680-232195-31	AF56435	Dissolved	Water	6020B	768540
680-232195-32	AF56436	Dissolved	Water	6020B	768540
680-232195-33	AF56437	Dissolved	Water	6020B	768540

Analysis Batch: 769167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-35	AF56409	Dissolved	Water	6010D	768608
680-232195-36	AF56410	Dissolved	Water	6010D	768608
680-232195-37	AF56411	Dissolved	Water	6010D	768608

**Prep Batch: 769547** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	3005A	
680-232195-2	AF56424	Dissolved	Water	3005A	
680-232195-3	AF56439	Dissolved	Water	3005A	
680-232195-4	AF56441	Dissolved	Water	3005A	
680-232195-5	AF56414	Dissolved	Water	3005A	
680-232195-6	AF56423	Dissolved	Water	3005A	
680-232195-7	AF56428	Dissolved	Water	3005A	
680-232195-8	AF56419	Dissolved	Water	3005A	
680-232195-9	AF56425	Dissolved	Water	3005A	
680-232195-10	AF56426	Dissolved	Water	3005A	
680-232195-11	AF56427	Dissolved	Water	3005A	
680-232195-12	AF56408	Dissolved	Water	3005A	
680-232195-13	AF56415	Dissolved	Water	3005A	
680-232195-14	AF56416	Dissolved	Water	3005A	
MB 680-769547/1-A	Method Blank	Total Recoverable	Water	3005A	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

**Metals (Continued)** 

Prep Batch: 769547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-769547/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 769727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232195-1	AF56421	Dissolved	Water	6010D	769547
680-232195-2	AF56424	Dissolved	Water	6010D	769547
680-232195-3	AF56439	Dissolved	Water	6010D	769547
680-232195-4	AF56441	Dissolved	Water	6010D	769547
680-232195-5	AF56414	Dissolved	Water	6010D	769547
680-232195-6	AF56423	Dissolved	Water	6010D	769547
680-232195-7	AF56428	Dissolved	Water	6010D	769547
680-232195-8	AF56419	Dissolved	Water	6010D	769547
680-232195-9	AF56425	Dissolved	Water	6010D	769547
680-232195-10	AF56426	Dissolved	Water	6010D	769547
680-232195-11	AF56427	Dissolved	Water	6010D	769547
680-232195-12	AF56408	Dissolved	Water	6010D	769547
680-232195-13	AF56415	Dissolved	Water	6010D	769547
680-232195-14	AF56416	Dissolved	Water	6010D	769547
MB 680-769547/1-A	Method Blank	Total Recoverable	Water	6010D	769547
LCS 680-769547/2-A	Lab Control Sample	Total Recoverable	Water	6010D	769547

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56421

Date Received: 03/17/23 10:30

Date Collected: 03/01/23 14:41

Lab Sample ID: 680-232195-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:16
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 19:56
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:04

Client Sample ID: AF56424

Date Collected: 03/01/23 13:37

Date Received: 03/17/23 10:30

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Dissolved Prep 3010A 604817 LKP EET SL 03/23/23 14:17 Dissolved 6010D 03/24/23 20:20 Analysis 605060 LKP EET SL Prep Dissolved 3005A 769547 BCB 03/24/23 14:44 **EET SAV** Dissolved Analysis 6010D 769727 BCB **EET SAV** 03/24/23 20:00 Dissolved 3005A 03/20/23 07:40 Prep 768492 RR **EET SAV** Dissolved Analysis 6020B 1 768799 BWR **EET SAV** 03/21/23 08:08

Client Sample ID: AF56439

Date Collected: 03/01/23 10:22

Date Received: 03/17/23 10:30

Lab Sam	ple ID:	680-23219	5-3
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Matrix: Water

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:25
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:03
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:12

Client Sample ID: AF56441

Date Collected: 03/01/23 11:45

Date Received: 03/17/23 10:30

Lab Sample II	J: 680-232195-4
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Matrix: Water

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:30
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:06
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:16

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232195-4

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56414

Date Collected: 03/02/23 12:46 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232195-5

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:34
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:09
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:20

Client Sample ID: AF56423

Date Collected: 03/02/23 09:52

Lab Sample ID: 680-232195-6

Matrix: Water

Date Collected: 03/02/23 09:52 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:39
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:19
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:24

Client Sample ID: AF56428 Lab Sample ID: 680-232195-7

Date Collected: 03/02/23 10:56

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:44
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:22
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:28

Client Sample ID: AF56419 Lab Sample ID: 680-232195-8

Date Collected: 03/07/23 14:51 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:48
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:25
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:33

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Matrix: Water

Matrix: Water

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56425

Lab Sample ID: 680-232195-9 Date Collected: 03/07/23 12:49

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:53
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:29
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:37

**Client Sample ID: AF56426** 

Lab Sample ID: 680-232195-10 Date Collected: 03/07/23 10:22 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:12
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:32
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:41

Client Sample ID: AF56427

Lab Sample ID: 680-232195-11 Date Collected: 03/07/23 10:27 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:16
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:35
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:53

Client Sample ID: AF56408

Date Collected: 03/08/23 13:38 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:21
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:38
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 08:57

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Lab Sample ID: 680-232195-12

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56415

Lab Sample ID: 680-232195-13 Date Collected: 03/08/23 15:13

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:26
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:42
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 09:01

**Client Sample ID: AF56416** 

Lab Sample ID: 680-232195-14 Date Collected: 03/08/23 10:09 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:31
Dissolved	Prep	3005A			769547	ВСВ	EET SAV	03/24/23 14:44
Dissolved	Analysis	6010D		1	769727	BCB	EET SAV	03/24/23 20:45
Dissolved	Prep	3005A			768492	RR	EET SAV	03/20/23 07:40
Dissolved	Analysis	6020B		1	768799	BWR	EET SAV	03/21/23 09:05

Client Sample ID: AF56417

Lab Sample ID: 680-232195-15 Date Collected: 03/08/23 10:14 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:35
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:12
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:07

Client Sample ID: AF56429

Date Collected: 03/08/23 12:12 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:40
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:22
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:19

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Lab Sample ID: 680-232195-16

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56394

Date Collected: 02/14/23 12:33 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232195-17

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 21:54
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:25
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:23

Client Sample ID: AF56331

Date Collected: 02/14/23 13:51 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232195-18

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:26
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:29
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:27

Client Sample ID: AF56332

Date Collected: 02/14/23 15:22

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232195-19

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:35
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:38
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:31

Client Sample ID: AF56395

Date Collected: 02/15/23 11:36

Date Received: 03/17/23 10:30

Lab Sample ID: 680-23219	5-20	
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:39
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:42
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:35

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56396

Lab Sample ID: 680-232195-21 Date Collected: 02/15/23 13:21

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:44
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:51
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:54
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:24

Client Sample ID: AF56397

Lab Sample ID: 680-232195-22

Matrix: Water

Date Collected: 02/16/23 10:53 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:49
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:45
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:46
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:16

Client Sample ID: AF56400

Lab Sample ID: 680-232195-23

Matrix: Water

Date Collected: 02/16/23 12:55 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 22:53
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:48
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:50
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:20

Client Sample ID: AF56442

Lab Sample ID: 680-232195-24

Matrix: Water

Date Collected: 02/16/23 14:07 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:12

**Eurofins Savannah** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56442

Date Collected: 02/16/23 14:07 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232195-24

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:55
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 16:58
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:28

**Client Sample ID: AF56443** 

Date Collected: 02/16/23 14:12 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232195-25

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:17
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 19:58
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:02
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:32

Client Sample ID: AF56402

Date Collected: 02/27/23 12:47

Date Received: 03/17/23 10:30

Lab Sam	ple ID:	680-232195-26
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:21
Dissolved	Prep	3005A			768859	ВЈВ	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	ВЈВ	EET SAV	03/21/23 20:01
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:06
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:36

Client Sample ID: AF56403

Date Collected: 02/27/23 09:57

Date Received: 03/17/23 10:30

Lab	Sample	ID: 68	30-2321	195-27
Lab	Jailible	10.00	JU-EJE	133-21

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:26
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:04

**Eurofins Savannah** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56403** 

Lab Sample ID: 680-232195-27 Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:10
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:40

Client Sample ID: AF56404

Lab Sample ID: 680-232195-28 Date Collected: 02/27/23 10:02

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:31
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:08
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:14
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:43

Client Sample ID: AF56434

Lab Sample ID: 680-232195-29 Date Collected: 02/27/23 15:44 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:36
Dissolved	Prep	3005A			768859	ВЈВ	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:17
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:18
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 08:47

**Client Sample ID: AF56433** 

Date Collected: 02/28/23 12:58 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:41
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:21
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:22

**Eurofins Savannah** 

Lab Sample ID: 680-232195-30

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56433

Lab Sample ID: 680-232195-30 Date Collected: 02/28/23 12:58

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Typ	е Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	d Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:03

Client Sample ID: AF56435

Lab Sample ID: 680-232195-31

Matrix: Water

Date Collected: 02/28/23 11:44 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:45
Dissolved	Prep	3005A			768859	BJB	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:24
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:33
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:07

Client Sample ID: AF56436

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232195-32 Date Collected: 02/28/23 10:19

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Dissolved 3010A 604819 LKP EET SL 03/23/23 14:19 Prep Dissolved 6010D 03/24/23 23:50 Analysis 605060 LKP EET SL 1 Dissolved Prep 3005A 768859 BJB **EET SAV** 03/20/23 09:01 Dissolved Analysis 6010D 768929 BJB **EET SAV** 03/21/23 20:30 1 Dissolved 3005A **EET SAV** 03/20/23 09:01 Prep 768540 RR 03/21/23 17:41 Dissolved Analysis 6020B 768945 BWR **EET SAV** Dissolved 3005A **EET SAV** 03/20/23 09:01 Prep 768540 RR 03/22/23 09:15 Dissolved Analysis 6020B 769014 BWR **EET SAV** 

Client Sample ID: AF56437

Lab Sample ID: 680-232195-33 Date Collected: 02/28/23 10:24 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 23:55
Dissolved	Prep	3005A			768859	ВЈВ	EET SAV	03/20/23 09:01
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:27
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:37
Dissolved	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Dissolved	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:11

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56438

Lab Sample ID: 680-232195-34 Date Collected: 02/28/23 14:31

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:13
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:21
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:43

Client Sample ID: AF56409

Lab Sample ID: 680-232195-35 Date Collected: 03/06/23 12:14 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:18
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:24
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 12:16
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:47

Client Sample ID: AF56410

Lab Sample ID: 680-232195-36 Date Collected: 03/06/23 12:19 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604819	LKP	EET SL	03/23/23 14:19
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:23
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:08
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 12:13
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:27

Client Sample ID: AF56411

Lab Sample ID: 680-232195-37 Date Collected: 03/06/23 11:08

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:37
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:37

**Eurofins Savannah** 

Matrix: Water

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56411

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232195-37 Date Collected: 03/06/23 11:08

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 12:19
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 23:02

Client Sample ID: AF56412

Lab Sample ID: 680-232195-38 Date Collected: 03/06/23 15:15

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 00:55
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:30
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:55

**Client Sample ID: AF56413** 

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232195-39 Date Collected: 03/06/23 13:41

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Dissolved Prep 3010A 604820 LKP EET SL 03/23/23 14:21 Dissolved 6010D 03/25/23 01:18 Analysis 605060 LKP EET SL 1 Dissolved Prep 3005A 768608 RR **EET SAV** 03/20/23 13:39 6010D Dissolved Analysis 768929 BJB **EET SAV** 03/21/23 11:27

Client Sample ID: AF56430

Prep

Analysis

3005A

6020B

Dissolved

Dissolved

Lab Sample ID: 680-232195-40

1

768613 RR

768945 BWR

**EET SAV** 

**EET SAV** 

03/20/23 13:39

03/21/23 22:51

Matrix: Water

Date Collected: 03/06/23 10:10 Date Received: 03/17/23 10:30

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:23
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:11
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:31

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56406

Lab Sample ID: 680-232195-41 Date Collected: 03/09/23 10:29

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:28
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:40
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 23:06

Client Sample ID: AF56407 Lab Sample ID: 680-232195-42

Date Collected: 03/09/23 10:34 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:32
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:43
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 23:10

Client Sample ID: AF56418 Lab Sample ID: 680-232195-43

Date Collected: 03/09/23 12:07 Matrix: Water Date Received: 03/17/23 10:30

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:37
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:34
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:59

Client Sample ID: AF56422 Lab Sample ID: 680-232195-44

Date Collected: 03/09/23 13:19 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3010A			604820	LKP	EET SL	03/23/23 14:21
Dissolved	Analysis	6010D		1	605060	LKP	EET SL	03/25/23 01:42
Dissolved	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:05
Dissolved	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Dissolved	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:23

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

**Eurofins Savannah** 

#### **Chain of Custody**

Santee cooper

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

DISSOLVED

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC 125915 / JM02.09. GØ1.1 / 36500 Yes No \_@santeecooper.com Analysis Group Labworks ID # Sample Location/ Comments Bottle type: (Glass-G/Plastic-P) Matrix(see below) Collection Date Collector Method # BELLOW (Internal use Description METALS Grab (G) or Composite (C) Preservative ( below) Reporting limit only) Collection Misc. sample info -SEE Any other notes ZDM 2 × X G SEE SHEET FOR RLS. AF56421 WAP-21 3/1/23 1441 1337 METHOD 6020 WAP-24 WLF-42-1 1022 39 1 1145 41 WLF- A2- 2 G 3/2/23 AF56414 WAP -15 1246 WAP-23 0952 23 28 WAP-27 1056 Sample Receiving (Internal Use Only)
TEMP (°C): 17:3 Initial: 12:3 Date Time 11/23 10:30 Relinquished by: Employee# 2919wan MMa 35594 3/16/23 300 Correct pH: Yes Relinquished by: Time Employee# Date Preservative Lot#: Relinquished by: Employee# Date Time Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) MISC. **Gypsum** Coal Oil **Nutrients Flyash** ⊠ Sb X Ag □ Cu ☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength □ BTEX
□ Naphthalene
□ THM/HAA □ Ultimate ☐ Ammonia ¤(Al .⊠ Fe ⊠ Se Gypsum(all below)

AIM
TOC □ DOC □ % Moisture □ LOI ΔK □ Sn ∦ As ☐ Ash
☐ Sulfur
☐ BTUs ☐ % Carbon
☐ Mineral
Analysis ☐ TP/TPO4 □ NH3-N □ VOC **X**Lı □ Sr ΠB ☐ Oil & Grease

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid,  $\begin{array}{lll} \text{C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)} \\ \text{Preservative code-} 1=<4^{\circ}\text{C} & 2=\text{HNO}_3 & 3=\text{H}_2\text{SO}_4 & 4-\text{HCl} & 5=\text{Na}_2\text{S}_2\text{O}_3 & 6-\text{Other (SC)} \\ \text{Constant of the constant of the con$ 

□ E. Coli

☐ Total Coliform

□ pH
□ Dissolved As

☐ Dissolved Fe
☐ Rad 226

☐ Rad 228

☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites

☐ Particle Size

Ø′Ba

⊠ Be

⊠(Ca

₹ Cd

Ж Co

12 Cr

**⋈**Mg

□ Mn

Mo Mo

Na.Na

X Nı

M Pb

□ Tı

ITPK

 $\Box V$ 

⊠ Zn

□ Hg

□ CrVI

□Br

□ NO2

□ NO3

□ SO4







☐ IFT ☐ Dissolved Gases

☐ LASSOIVED Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil
(As,Cd,Cr,Ni,Pb
Hg)

☐ Sieve

**NPDES** 

□ Oil & Grease

□ As □ TSS

□ Volatile Matter

□ CHN Other Tests:

☐ Fineness
☐ Particulate Matter

□ XRF Scan
□ HGI

凶Ni

ØРь

₽ Co

⊠ Cr

□Hg

☐ CrVI

#### **Chain of Custody**

Santee cooper

DISSOLVED

Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC 125915 / JMD2.09.GO 1.1/ 36500 Yes No \_\_@santeecooper.com Analysis Group Labworks ID # Sample Location/ Comments Matrix(see below) Preservative (see below) BEE LOW **Collection Date Collection Time** (Internal use Description Method # Sample Collector Reporting limit only) Grab (G) or Composite (C) Misc. sample info XEE. Any other notes <u>L</u>DM × 3/7/23 F 6 SEE SHEET FUR RIS. AF 56 4, 9 WA-P-19 45 لعاب 25 WAP-25 6020 .022 WAP-26 27 WAP-26D 1027 WAP-.3 3/8/23 1339 AF 56408 15 WA-P-16 1213 6 WAP - 7 WAP-17D 1014 29 WAP-28 12/2 Sample Receiving (Internal Use Only) Relinquished by: Employee# Received by: Employee # Date Time TEMP (°C):\_ 8919-wun 35594 3/10/23 Correct pH: Yes No Relinguished by: Time Time Date Date Received by: Employee # Preservative Lot#: Relinquished by: Date Time Received by: Employee # Time Employee# Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. Gypsum Coal ☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength X Ag D Cu ⊠ Sb □ TOC BTEX □ Wallboard ☐ Ultimate ☐ Ammonia X Al ₩ Fe Ø.Se Gypsum(all below)

AIM
TOC
Total metals
Soluble Metals ☐ Naphthalene ☐ THM/HAA  $\square$  DOC ☐ % Moisture Ø As ÆK ☐ Sn ☐ TP/TPO4 □ Ash □ Sulfur ☐ % Carbon □ VOC □ NH3-N ☐ Mineral Analysis □ Dielectric Strength
□ IFT
□ Dissolved Gases
□ Used Oil
□ Flashpoint
□ Metals in oil
(As,Cd,Cr,Ni,Pb.ltg)
□ TX □В □ Sr PLI □ Oil & Grease
□ E. Coli O F □ BTUs ∭ Ba Ø,Mg 🛛 Ti □ C1 ☐ Volatile Matter ☐ Total Coliform ∏ Be □ Mn ją Tl □ NO2 □ CHN □ % Moisture ☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites □ Br ☐ Dissolved As Other Tests: MMo Æ Ca ΠV ☐ Dissolved Fe ☐ Rad 226 ☐ Rad 228 □ NO3 **NPDES** ⋈ Cd ⊠′Zn ☐ pH☐ Chlorides☐ Particle Size ⊠(Na □ HGI □ SO4 □ Oil & Grease ☐ Fineness
☐ 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, 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=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

□ PCB







□ As □ TSS

#### Chain of Custody

Santee cooper

Santee Cooper One Riverwood Drive Moneks Corner SC 29461 te (843)761-8000 Ext. 5148 Fax. (843)761-4175 DISSOUED Rerun request for any flagged QC Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: L.NDA - WILLIAMS @santeecooper.com 125915 / JM02.09.601.1 / 36500 Yes No **Analysis Group** Labworks ID # Sample Location/ Comments Preservative (see below) (Glass-Matrix(see below) Time DISSOUVED **Collection Date** (Internal use Description Fotal # of container Method # BELOW Sample Collector Reporting limit only) Grab (G) or Composite (C) Bottle type: ( G/Plastic-P) Collection Misc sample info Any other notes SEE 2DM K 2 2/14/23 1233 P G SEE SHEET FOR RLS WAP-1 4-56394 1351 G0 20 WBW-1 32 1522 WBW-AI-1 2/15/23 AF56395 WAP-2 1136 32 76 WAP-3 ZDM MDG 2/16/23 b53 +F56397 WAP-4 WAP-7 1255 442 WLF-A2-6 1407 WLF-A2-6D 443 1412 Sample Receiving (Internal Use Only) Relinquished by: Time Received by: Employee # Date Time TEMP (°C):\_ \_\_ Initial: 35594 8919-wun 3/16 23 Correct pH: Yes No Time Date Time Date Received by: Employee # Preservative Lot#: Relinquished by: Employee# Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. **Gypsum** Coal Ä Ag ⊅\Sb ≱\Se ☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength 🗆 Cu □ TOC □ BTEX □ Wallboard □ Ultimate ☐ Ammonia ≱ Fe Vallboard

Gypsum(all below)

AIM

TOC

Total metals

Purity (CaSO4)

Whoisture

Sulfites

Pull below [A] DOC DTP/TPO4 □ Naphthalene ☐ % Moisture □ THM/HAA □ VOC X,As 図K 🗆 Sn ☐ Ash
☐ Sulfur ☐ % Carbon □ NH3-N □В **XL**1 □ Sr ☐ Mineral ☐ Oil & Grease □ Dielectric Strength
□ IFT
□ Dissolved Gases
□ Used Oil
□ Flashpoint
□ Metals in oil
(As,Cd,Cr,Ni,Pb
Hg)
□ TX □ BTUs Analysis □ E. Coli 风Ba ℤ Mg □ Ti ☐ Sieve
☐ % Moisture □ C1 ☐ Total Coliform ☐ Volatile Matter ĭ Be □ Mn Ø(TI □ NO2 □ pH
□ Dissolved As □ CHN □ Br Other Tests: Ø, Ca **Д**∕Мо  $\Box V$ ☐ XRF Scan
☐ HGI □ NO3 ☐ Dissolved Fe **NPDES** ⊠ Cd X Na ⊠(Zn ☐ Rad 226 □ pH □ Chlorides □ SO4 □ Oil & Grease □ Rad 228

> 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 (S

Particle Size

X Co

₩.Cr

⊠ Nı

ĭ⊈Pb

□ Hg

□ CrVI

□ PCB





□ Fineness

☐ Particulate Matter

□ As □ TSS

□ GOFER



# **Chain of Custody**

DISSOLVED Project/Task/Unit #: Rerun request for any flagged QC Customer Email/Report Recipient: Date Results Needed by: LINDA. WILLIAMS @santeecooper.com 125915 JMOZ. 09. GØ1-1 36500 es No Analysis Group

	works ID # ternal use y)	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	PISSOLYED METALS	SEE BELOW	
AT	56402	WAP-9	2/27/23	1247	ZDM ML	ı	P	હ	GW	2	SEE SHEET FOR RLS.	X		
	<b>©</b> 3	WA-P-10		0957		1		1	Overdagages		6020			
	04	WAP-10D		1002		-						-		
-	434	WLF-AI-2	1	1544	1	1	-							
AF	:26433	WUE-AI-1	2/28/23	1258	)	1			Andrew Control	1				
	85	WLF-A1-3	)	११५५										
	w	WLF-AI-4	**************************************	1019						on and a second				
	37	W-F-A1-4D		1024		-				artifility against				
	38	WLF-AL-5	1	1431			1		1	and the same of th				

Relingu	lished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time	TEMI	? (°C):	Initial:
Sgravo	an	35594	3/16/23	1300						ct pH: Yes N	lo .
Relingu	iished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time		rvative Lot#:	
Relingu	ished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time	l reser	vauve Lour.	
<u></u>	en de comissão y comissão e e e								Date/	Time/Init for prese	rvative:
	□ MET	ALS (all)	Nir	trients	MISC.	Gyps	um	Coa		Flyash	Oil
AAg	□ Cu	⊠ Sb		0.000	D BTEX	□ Wallboard		□ Ultimate		☐ Ammonia	☐ Trans, Oil Qual.
¤(Al	⊠ Fe	X Se	D		☐ Naphthalene	Gypsun		□ % Mois	ture		☐ %Moisture
₩ As	ДK	☐ Sn	□ TI	P/TPO4	□ THM/HAA	below)	4	☐ Ash		☐ % Carbon	☐ Color ☐ Acidity
□В	<b>ML</b> 1	□ Sr	1 67223339303007	H3-N	☐ VOC ☐ Oil & Grease	□ AIM □ TOC		□ Sulfur		☐ Mineral	Dielectric Strength
⊠ Ba	Ø∕Mg	□ Ti	— □ CI		□ E. Coli □ Total Coliform	☐ Total m		☐ BTUs ☐ Volatile	Matter	Analysis  ☐ Sieve	☐ IFT ☐ Dissolved Gases
ф∕Ве	□Mn	ЖTI	□N		□pH	☐ Soluble ☐ Purity (		□ CHN	14.1	☐ % Moisture	□ Used Oil
⊠ Ca	ДMо	υV	□ B <sub>1</sub>		☐ Dissolved As ☐ Dissolved Fe	☐ % Mois ☐ Sulfites		Other Tests:		NDDEC	☐ Flashpoint ☐ Metals in oil
⊅ Cd	)X/Na	∑(Zn	□ S0		□ Rad 226	□pH		□HGI		NPDES  Oil & Grease	(As,Cd,Ct,Ni,Pb Hg)
X9 C₀	įΧNı	□ Hg			☐ Rad 228 ☐ PCB	☐ Chlorid☐ Particle		☐ Fineness ☐ Particulate M	latter	□ As	n TX
Ø.Cr	⊠Pb	□ CrVI			.,	□ Sulfur		4 14	4	□ TSS	□ 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=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)













Sample Receiving (Internal Use Only)

#### **Chain of Custody**

Santee cooper

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

Project/Task/Unit #: Rerun request for any flagged QC **Customer Email/Report Recipient:** Date Results Needed by: 125915 / JM02 09. GØ1.1/ 36500 Yes No @santeecooper.com Analysis Group Labworks ID # Sample Location/ Comments OLVED BELOW Preservative (see below) Matrix(see below) (Internal use Description **Collection Date Collection Time** Method # Fotal # of container Sample Collector only) Reporting limit Grab (G) or Composite (C) Bottle type: ( G/Plastlc-P) Misc. sample info Any other notes ZON 2 3/6/23 Х WAP-14 1214 GW SEE SHEET FOR RIS. AF 56409 1219 10 6020 WA-P-14D WAP- MA 1108 12 (5,5 WAP-148 (3 1341 WAP - IHC 1 30 WAT-29 1010 3/9/23 4F56406 WAP-12 1029 WAP- 2D 07 1034 18 WA-P - 8 1 1 22 WA--22 1319 Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C):\_ \_\_Initial:\_

	ished by:	Employee#	3/ie/23 Date Date	350 Time	Received by:	Employee #	Date Date	Time Time		ct pH: Yes vative Lot#:  Firme/Init for pres	No servative:
<u> </u>		ALS (all)	Nut	trients	MISC.	Gypsi	um	Coal		Flyash	Oil
⊠ Ag ⊠ Al	□ Cu ☑ Fe	⊠ Sb ⊠ Se		22000	□BTEX	□ Wallboard	100000000000000000000000000000000000000	□ Ultimate		☐ Ammonia	☐ Trans. Oil Qual.
D.As	NK	□ Sn		)C ?/TPO4	☐ Naphthalene ☐ THM/HAA	Gypsum below)	(all	☐ % Moist	ure	☐ LOI ☐ % Carbon	☐ %Moisture ☐ Color
□В	ALı	□Sr	- NOVO 2721340000	H3-N	□ VOC □ Oil & Grease	D AIM		☐ Sulfur		☐ Mineral	Acidity     Dielectric Strength
[A] Ba	'⊠'Mg	□ Ti	□ F		🗆 E. Coli	□ Total m		☐ BTUs ☐ Volatile	Mottor	Analysis  ☐ Sieve	☐ IFT ☐ Dissolved Gases
⊠Be	□ Mn	ДTI	□ NO		☐ Total Coliform ☐ pH	☐ Soluble ☐ Purity (		□ CHN	Mauci	☐ % Moisture	□ Used Oil
ℤ Ca	Ď-Mo	υV	□ Br		☐ Dissolved As ☐ Dissolved Fe	☐ % Mois	ture	Other Tests:			☐ Flashpoint ☐ Metals in oil
χą Cd	A Na	⊠Zn			☐ Rad 226	□pH		□HGI		NPDES	(As,Cd,Cr,Ni,Pb
Æ Co	ŻΝi	□Hg			☐ Rad 228 ☐ PCB	☐ Chlorid ☐ Particle	77	☐ Fineness ☐ Particulate Ma	tter	☐ Oil & Grease ☐ As	Hg)
⊠ Cr	Й₽ь	□ CrVI			1	□ Sulfur	VIII.			□ TSS	□ 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=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Speafy)

78/2023

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	I	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	•
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	

Ver: 06/08/2021

Environment Testing

💸 eurofins

Chain of Custody Record

Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165

**Eurofins Savannah** 

5102 LaRoche Avenue

Client Information (Sub Contract Lab)				oide	A .crol .	<				80_	value macking mo(s)		COC 190	
Client Contact	Obodo			נים ווכ						-			080-731060.1	
Shipping/Receiving	2			lerov	.00	904	c-mail:  erry   apier@et ericofinerie com	8		State	State of Origin:		Page	
Common				Jany	<u> </u>	בו פח	Spellion			noc	n Carolina		Page 1 of 5	
Company. TestAmerica Laboratories, Inc.					ccredita FLAF	itions Re - Flori	Accreditations Required (See note) NELAP - Florida; State - So	se note): e - Sou	th Caro	ina, Sta	Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program		Job #:	
Address.	Due Date Requester	led:							:				Preservation Codes	des:
Carolina Moltin	3/2/12/023					ŀ	İ	Anai	SIS R	Analysis Requested	red		A · HCI	M - Hexane
City. Earth City	I A I Requested (days):	/s):						_					B - NaOH	N - None O - AsNaO2
State, Zip: MO, 63045	,				6.0	4OI V							D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone. 314-298-8566(Tel) 314-298-8757(Fax)	PO#					d muirt							F - MeOH G - Amchlor	S - H2SO4 T - TSP Dodecahydrate
Email:	**OM					tl J. asi							_	U - Acetone V - MCAA
Project Name. 125915/JM02.09 G01.1/36500	Project #: 68008190					a (dow								W - pH 4-5 Y - Trizma Z - other (specify)
Site.	#MOSS					) OAT.							Other:	
			Samolo	Matrix		13_a.							Det o	
		Sample	Type (C=comp,	Sesolid,	edies bla M moch	OD/FIEL							mulf ls	
Sample Identification - Client ID (Lab ID)	Sample Date	Time		4		109		-						Special Instructions/Note:
	X	X	Preservation Code:	ion Code:	X		Ti.							
AF56421 (680-232195-1)	3/1/23	14:41 Eastern		Water		×							1	
AF56424 (680-232195-2)	3/1/23	13:37 Eastern		Water		×							-	
AF56439 (680-232195-3)	3/1/23	10:22 Eastern		Water		×							-	
AF56441 (680-232195-4)	3/1/23	11:45 Eastern		Water		×				_				
AF56414 (680-232195-5)	3/2/23	12:46 Eastern		Water		×		_						
AF56423 (680-232195-6)	3/2/23	09:52 Eastern		Water		×							1	
AF56428 (680-232195-7)	3/2/23	10:56 Eastern		Water		×							-	
AF56419 (680-232195-8)	3/7/23	14:51 Eastern		Water		×							1	
AF56425 (680-232195-9)	3/7/23	12:49 Eastern		Water		×							-	
Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory control is shaped back to find the State of Origin listed above for analysistests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast. LLC laboratory or other instructions will be provided. Any changes to accreditation is the instructions will be provided. Any changes to accreditation	Testing Southeast, LI Ilysis/tests/matrix being	LC places the g analyzed, the	ownership of m s samples musi	ethod, analyte &	accredi	tation cor Eurofins	mpliance Environm	upon our ent Testi	subconfr ng South	act labora	ories. This sar aboratory or of	nple shipment i	s forwarded under cha	LC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation
Possible Hazard Identification	in introduction in all re	adnested accre	editations are cu	urrent to date, re	ett mu	signed C	hain of C	ustody at	lesting to	said com	pliance to Euro	fins Environmer	requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC	IC

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

Return To Client Disposal By Lab Archive For Monte Special Instructions/QC Requirements: Method of Shipment Fime: Primary Deliverable Rank: Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: Unconfirmed

**Chain of Custody Record** 

**Eurofins Savannah** 5102 LaRoche Avenue Environment Testing

💸 eurofins

Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165

The contract Lab   Phone		Campagi			Lab PM					j	(e)ou Buyon in come			
Throng	Client Information (Sub Contract Lab)				Lanie	r, Jerny A							680-731060.2	
Foreign	Chient Confact: Shipping/Receiving	Phone:			E-Mail	Spier@	e de la constante	0.00		Sta	of Origin:		Page:	
Forcest and   Forcest   Properties   Prope					3011	Tallel (C)	io io de	IISUS COI			in Carolina		Page 2 or 5	
10   10   10   10   10   10   10   10	TestAmerica Laboratories, Inc.					Accreditation NELAP -	ons Requin Florida;	ed (See no State - S	te): south Ca	rolina; S	ate Program		Job #:	
FOD #   POD	Address: 13715 Rider Trail North,	Due Date Requeste 3/27/2023	ij					Ā	alvsis	Regue	sted		Preservation Codes:	800
10   10   10   10   10   10   10   10	City. Earth City	TAT Requested (da	ys):						-				A - HCL B - NaOH	M - hexane N - None O - AsNaO2
Formation   Post   Formation   For	State, Zip. MO, 63045	1				931 V	401 6						C - Zn Acetate D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
Sample   S	Phone. 314-298-8566(Tel) 314-298-8757(Fax)	PO#					0 1110111						F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Sample Date   Sample   Matrix   Sample   Matrix   Sample   Cacomp   Sample   Cacomp   Cacom	Email:	#OM				(0	117.661						H - Ascorbic Acid	
Sample   Matrix   Sample   Matrix   Sample   Matrix   Sample   Type   Type	Project Name: 125915/JM02 09. G01. 1/36500	Project #: 68008190				M'10 a	a (aou					en oute		W - pH 4-5 Y - Trizma Z - other (specify)
Sample Date   Names.   Sample   Water   Type   Waves.   Sample   C=Comp.   Sample	Site:	SSOW#				N) ds	n) av 1.					il con	Other:	
Sample Date   Time   G=grab    Br-Tituus Assul   III			Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oll,	M\ZM mohe						andmin (st		
Treservation Codes       3/7/23     Eastern     Water     X       3/8/23     Eastern     Water     X       3/8/23     Eastern     X     Eastern       2/14/23     Eastern     X     Eastern       2/14/23     Eastern     X     Eastern	Sample Identification - Client ID (Lab ID)	Sample Date	Time	- 10	T-Tlasue, A-Air)	d	00					o.I.		Special Instructions/Note:
3/7/23       Eastern Eastern       Water       X         3/7/23       Eastern Eastern Eastern Eastern 15.13       Water X       X         3/8/23       Eastern 10.09       Water X       X         3/8/23       Eastern 10.14       Water X       X         3/8/23       Eastern 10.14       Water X       X         3/8/23       Eastern 10.14       Water X       X         3/8/23       Eastern 10.12       Water X       X         1/2.12       Water X       X       Image: Control of the property of the p			( 200	Lieselval	ion code.	1						^		V
3/7/23       10:27 Easiern       Water       X       Assiern       Water       X       Assiern         3/8/23       Easiern       Water       X       8	AF56426 (680-232195-10)	3/7/23	Eastern		Water	_	~							
3/8/23       Eastern Eastern       Water       X       R         3/8/23       Eastern 10.09       Water       X       R         3/8/23       Eastern 10.14       Water X       X       R         3/8/23       Eastern 12.12       Water X       X       R         3/8/23       Eastern 12.12       Water X       R       R         2/14/23       Eastern 12.33       Water X       R       R	AF56427 (680-232195-11)	3/7/23	10:27 Eastern		Water	_	Ţ							
3/8/23     15:13     Water     X       3/8/23     Eastern     Water     X       3/8/23     Eastern     Water     X       3/8/23     Eastern     Water     X       2/14/23     Eastern     X             2/14/23     Eastern     X             2/14/23     Eastern     X	AF56408 (680-232195-12)	3/8/23	13:38 Eastern		Water	Î	v							
3/8/23       10.09 Eastern       Water       X         3/8/23       Eastern Eastern       X         3/8/23       Eastern L2.12       Water       X         2/14/23       Eastern Eastern Eastern Eastern X       X	AF56415 (680-232195-13)	3/8/23	15:13 Eastern		Water	Ê	Į							
3/8/23	AF56416 (680-232195-14)	3/8/23	10:09 Fastern		Water		v							
3/8/23 12:12 Water X Eastern 12:33 Water X	AF56417 (680-232195-15)	3/8/23	10:14 Fastern		Water	Ê	Ļ		-					
2/14/23 12:33 Water X Eastern X	AF56429 (680-232195-16)	3/8/23	12:12 Fastern		Water	Ê	Ų							
	AF56394 (680-232195-17)	2/14/23	12:33 Fastern		Water	Î	Į							
AF56331 (680-232195-18) 2/14/23 13:51 Water X	AF56331 (680-232195-18)	2/14/23	13:51 Fastern		Water	Ê	Ţ							

does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation stream to date, return the signed Chain of Custody attesting to said compliance to Eurofine Environment Testing Southeast, LLC. Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Possible Hazard Identification

Unconfirmed

	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	Deliverable Rank: 1		Special Instructions/QC Requirements:	nts:		Sign
	Empty Kit Relinquished by:		Date:	-	Time:	Method of Shipment	hipment	
	Reinquished by	Date/Time:		Company	Received by:		Date/Time:	Company
3	Relinquished by:	Date/Time:		Company	Received by:		Date/Time:	Company
/28/	Relinquished by:	Date/Time		Company	Received by:	0	Date/Time: 3 /22/23	3/22/23 04 10 ETAS
202	Custody Seals Intact: Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks	emarks:		
3	D I GS D MO							

# Chain of Custody Record

EULORINS SAVANNAN 5102 LaRoche Avenue	Savannah, GA 31404	Phone: 912-354-7858 Fax: 912-352-0165
--	--------------------	---------------------------------------

Eurofins Savannah										
5102 Lakoche Avenue Savannah, GA 31404 Phone: 912-354-7858 Fav. 912-352-0165	ວົ	hain of Custody Record	ustody F	Seco	ē				💸 eurofins	S   Environment Testing
Client Information (Sub Contract Lab)	Sampler		Lab PM Lanier	Lab PM: Lanier, Jerry A	4		Carrier Tracking No(s)	No(s):	COC No.	
ı	Phone		E-Mail:	je je			State of Origin		-000 -000 -000 -000 -000 -000 -000 -00	
Shipping/Receiving			Jer	ry.Lanier	@et.eurof	insus.com	South Carolina	na i	Page 3 of 5	
Company: TestAmerica Laboratories, Inc.				Accredit NELA!	ations Requir	Accreditations Required (See note):  NELAP - Florida: State - South Carolina: State Program	olina: State Progr	me	Job #:	
Address. 13715 Rider Trail North,	Due Date Requested: 3/27/2023					Analysis	Analysis Requested		Preservation Codes	des
City Earth City	TAT Requested (days):								A - HCL B - NaOH	
State. Zip MO, 63045					y ICP				D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
Phone. 314-298-8566(Tel) 314-298-8757(Fax)	PO#:			(	d muin				F - MeOH G - Amchlor	
Email	:# OM				MJ.ss				H - Ascorbic Acid	
Project Name 125915/JM02.09.G01.1/36500	Project #: 68008190			_	nop) pi				K-EDTA L-EDA	W - pH 4-5 Y - Trizma Z - other (specify)
Site	SSOW#:				<b>л</b> ) аят.				Other	
			Matrix (w-water,	S benetilit MSM mm	וידופּנס_דנ				Mumber o	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample (C=comp, Time G=grab)	ã	Piold	G0109					Special Instructions/Note:
	X		Preservation Code:	X						
AF56332 (680-232195-19)	2/14/23	15:22 Fastern	Water		×				+	
AF56395 (680-232195-20)	2/15/23	11:36 Fastern	Water		×				-	
AF56396 (680-232195-21)	2/15/23	13:21 Eastern	Water		×				12	
AF56397 (680-232195-22)	2/16/23	10:53 Fastern	Water		×				च	
AF56400 (680-232195-23)	2/16/23	12:55 Eastern	Water		×					
AF56442 (680-232195-24)	2/16/23	14:07 Fastern	Water		×				1	
AF56443 (680-232195-25)	2/16/23	14:12 Fastern	Water		×				12	
AF56402 (680-232195-26)	2/27/23	12:47 Eastern	Water		×				-	
AF56403 (680-232195-27)	2/27/23	09:57 Eastern	Water		×				7	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/mainty being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast above for analysis/lests/mainty being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.	onment Testing Southeast, LLC for analysis/lests/matrix being a attention immediately. If all req	places the ownership analyzed, the samples uested accreditations	of method, analyte must be shipped t are current to date	e & accred back to the return the	itation compl Eurofins En- signed Chai	iance upon our subcon vironment Testing Sour n of Custody attesting	tract laboratories. Thi heast, LLC laboratory o said compliance to	s sample shipm or other instruct Eurofins Enviror	ent is forwarded under chitons will be provided. An iment Testing Southeast,	ain-of-custody. If the laborator y changes to accreditation LLC.
Possible Hazard Identification				Sar	nple Disp	osal ( A fee may l	e assessed if sa	Imples are r	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	1 month)
Unconfirmed Dalisarchia Bossocial III III IV Odeo (2000)				_	Return	Return To Client	Disposal By Lab	Q.	Archive For	Months
Deliverable Requested. I, III, IV, Other (specify)	Primary Deliverable	e Rank: 1		Sp	cial Instru	Special Instructions/QC Requirements:	ments:			
Empty Kit Relinquished by:	Dat	ate:		Time			Method of Shipment	Shipment:		
Relinquished by:	Date/Time:		Company		Received by			Date/Time:		Company
Relinquished by:	Date/Time:		Company	)	Received by:	-	Shoot boss	Date/Time:	2/22/13 00	2 5
Relinquished by.	Date/Time:		Company		Received by			Date/Time:		$\overline{}$
Custody Seals Intact: Custody Seal No.:  Δ Yes Δ No					Cooler Temp	Cooler Temperature(s) °C and Other Remarks:	r Remarks:			
1				1						

Ver: 06/08/202

Carrier Tracking No(s)

**Environment Testing** 

🔅 eurofins

Chain of Custody Record

Phone: 912-354-7858 Fax: 912-352-0165

**Eurofins Savannah** 

5102 LaRoche Avenue Savannah, GA 31404

S - H2SO4 T - TSP Dodecahydrate U - Acetone Special Instructions/Note: Z - other (specify) P - Na204S Q - Na2SO3 R - Na2S2O3 W - pH 4-5 V - MCAA Y - Trizma Preservation Codes A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - MasSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid COC No: 680-731060.4 680-232195-1 Page: Page 4 of 5 I - Ice J - DI Water K - EDTA L-EDA ÷ Accreditations Required (See note): NELAP - Florida: State - South Carolina; State Program State of Origin: South Carolina Analysis Requested Jerry.Lanier@et.eurofinsus.com Lab PM: Lanier, Jerry A 6010D/FIELD\_FLTRD (MOD) Diss.Lithium by ICP ×  $\times$  $\times$ × × (off. 10 26Y), GZM/ZM miche (off to set) sigma? be E-Mail (W=water, S=solid, O=wasta/oll, Preservation Code: Matrix Water Water Water Water Water (C=comp, G=grab) Sample Type Eastern 15:44 Eastern 11:44 Eastern 10:19 Eastern 10:24 Sample Eastern 12:58 Due Date Requested: 3/27/2023 TAT Requested (days): Sample Date 2/28/23 2/28/23 2/28/23 2127123 Project #: 68008190 2127123 # OM Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) 314-298-8757(Fax) Project Name: 125915/JM02.09.G01.1/36500 FestAmerica Laboratories, Inc. AF56434 (680-232195-29) AF56435 (680-232195-31) AF56404 (680-232195-28) AF56436 (680-232195-32) AF56433 (680-232195-30) 13715 Rider Trail North Client Contact: Shipping/Receiving 314-298-8566(Tel) State, Zip. MO, 63045 Earth City

Note: Since laboratory acceditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory of content instructions will be provided. Any changes to accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

× × × ×

Water Water

> Eastern 14:31 Eastern 12:14 Eastern 12:19

2/28/23 2/28/23

AF56437 (680-232195-33) AF56438 (680-232195-34) AF56409 (680-232195-35)

Water

3/6/23

Water

Eastern

3/6/23

AF56410 (680-232195-36)

	l ossible mazard identification			5	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	d if samples ar	re refained longer than	month
	Unconfirmed				Return To Client Disposal By Lab	l Bv I ab	Archive For	Months
	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	ble Rank: 1	S	Requ	ł		MOUNTS
	Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:		
	Relinquished by:	Date/Time:	Company	any	Received by:	Date/Time		Company
	Reinquished by	Date/Time:	Company	any	Received by:	Date/Time		Company
3/28	Relinquished by:	Date/Time:	Company	any	Mama Sharkort	Date/Hime	3/2/23 0910 ETAST	ET457
3/20:	Custody Seals Intact: Custody Seal No.:				Cooler Temperature(s) <sup>o</sup> C and Other Remarks	)	0	d and to to
23	Δ Yes Δ No							

# **Chain of Custody Record**

**Eurofins Savannah** 

5102 LaRoche Avenue

**Environment Testing** 

😵 eurofins

Savannah GA 31404	Chai	Chain of Custody Record	stody R	ecor			s eurotins	
Phone: 912-354-7858 Fax: 912-352-0165								Environment Test
	Sampler		Lab PM	5		Carrier Tracking No(s)	COC No.	
Client Information (Sub Contract Lab)			Lani	Lanier, Jerry A			680-731060.5	
Client Contact:	Phone		E-Mail:			State of Origin:	Page	
Simplify Receiving			Jerry	.Lanier@	Jerry Lanier@et eurofinsus.com	South Carolina	Page 5 of 5	
Company				Accreditatio	Accreditations Required (See note)		*dop	
TestAmerica Laboratories, Inc.				NELAP -	NELAP - Florida; State - South Carolina; State Program	a; State Program	680-232195-1	
Address: 13715 Rider Trail North	Due Date Requested:						Preservation Codes:	98:
CO TOTAL MOTER,	3/2//2023				Analysis Kequested	quested	3	M - Hexane
City: Earth City	TAT Requested (days):						B - NaOH	N - None O - AsnaO2
State, Zip	Ī			d:			C - Zn Acetate	P - Na204S
MO, 63045				1 A			E - NaHSO4	Q - Na2SO3
Phone. 314-298-8566(Tel) 314-298-8757(Fax)	# Od			98			F - MeOH G - Amchlor	K - Na2S2O3 S - H2SO4 T - TSD Dodoobudoo
Fmail	* OW						H - Ascorbic Acid	II - Acetone
Linear.				(0)				V - MCAA
Project Name. 125915/JM02.09.G01.1/36500	Project # 68008190			A (don			K-EDTA L-EDA	W - pH 4-5 Y - Trizma Z - other (snacify)
Site.	SSOW#:			W) ds			f conf	
		Cample	Matrix	SW/SI			Der O	
		Type	(Wwwater,	M m			imul	
Sample Identification - Client ID (Lab ID)	Sample Date Time	(C=comp,	Secolid. Omwasta/oil,					:
		Preserv	Preservation Code:	-				Special Instructions/Note:
AF56411 (680-232195-37)	3/6/23 11:08		Water	,				
		uie						
AF56412 (680-232195-38)	3/6/23 15:15 Eastern	i5 ern	Water	×			4	
AF56413 (680-232195-39)	3/6/23 13:41 Easter	11 ern	Water	×			+	
AF56430 (680-232195-40)	3/6/23 10:10 Eastern	0	Water	×			T.	

N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - R2SO4
I - T FP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Tizma
Z - other (specify)

Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to accreditation does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC. Possible Hazard Identification

Water

Eastern 12:07 Eastern 13:19 Eastern

Eastern 10:34

3/9/23 3/9/23 3/9/23 3/9/23

AF56406 (680-232195-41)

AF56407 (680-232195-42) AF56418 (680-232195-43) AF56422 (680-232195-44)

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× × × ×

Water Water Water

					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	ssed if samples ar	e retained longer than 1	nonth)
	Unconfirmed				Return To Client	Oisposal By Lab	Archive For	Months
	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	rable Rank: 1		Requ	ı	D. DANIEL	MOTITUS
	Empty Kit Relinquished by:		Date:	Time:	ici)	Method of Shipment:		
	Relinquished by	Date/Time		Company	Received by:	Date/Time:		Company
(	Relinquished by.	Date/Time		Company	Received by:	-22	1 - 1 - 1	Company
3/28	Relinquished by.	.Date/Time:		Company	Received by:	2	V. 3/22/13 09	Company
/2023	Custody Seals Intact: Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:	i		

# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-232195-1

Login Number: 232195 List Source: Eurofins Savannah

List Number: 1

Creator: Givens, Keshia

ordator. Ordano, resina	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td>	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.	N/A
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

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### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-232195-1

List Source: Eurofins St. Louis
List Number: 2
List Creation: 03/22/23 01:48 PM

Creator: Sharkey-Gonzalez, Briana L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

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### **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232195-1

#### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

#### **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	12-08-23
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
lowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
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 Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
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	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 



# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 3/28/2023 6:36:20 PM

# **JOB DESCRIPTION**

125915/JM02.09.G01.1/36500

# **JOB NUMBER**

680-232196-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **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**

Generated 3/28/2023 6:36:20 PM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

Eurofins Savannah is a laboratory within Eurofins Environment Testing Southeast, LLC, a company within Eurofins Environment Testing Group of Companies

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Method Summary	6
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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Job ID: 680-232196-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-232196-1

#### Receipt

The samples were received on 3/17/2023 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 18.3°C

#### Metals

Method 6010D: preparation batch 160-604815 Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: AF56407 (680-232196-26).

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

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# **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-232196-1	AF56394	Water	02/14/23 12:33	03/17/23 10:30
680-232196-2	AF56331	Water	02/14/23 13:51	03/17/23 10:30
680-232196-3	AF56332	Water	02/14/23 15:22	03/17/23 10:30
680-232196-4	AF56395	Water	02/15/23 11:36	03/17/23 10:30
680-232196-5	AF56396	Water	02/15/23 13:21	03/17/23 10:30
680-232196-6	AF56397	Water	02/16/23 10:53	03/17/23 10:30
680-232196-7	AF56400	Water	02/16/23 12:55	03/17/23 10:30
680-232196-8	AF56442	Water	02/16/23 14:07	03/17/23 10:30
880-232196-9	AF56443	Water	02/16/23 14:12	03/17/23 10:30
80-232196-10	AF56402	Water	02/27/23 12:47	03/17/23 10:30
680-232196-11	AF56403	Water	02/27/23 09:57	03/17/23 10:30
880-232196-12	AF56404	Water	02/27/23 10:02	03/17/23 10:30
680-232196-13	AF56434	Water	02/27/23 15:44	03/17/23 10:30
680-232196-14	AF56433	Water	02/28/23 12:58	03/17/23 10:30
680-232196-15	AF56435	Water	02/28/23 11:44	03/17/23 10:30
880-232196-16	AF56436	Water	02/28/23 10:19	03/17/23 10:30
880-232196-17	AF56437	Water	02/28/23 10:24	03/17/23 10:30
880-232196-18	AF56438	Water	02/28/23 14:31	03/17/23 10:30
80-232196-19	AF56409	Water	03/06/23 12:14	03/17/23 10:30
80-232196-20	AF56410	Water	03/06/23 12:19	03/17/23 10:30
80-232196-21	AF56411	Water	03/06/23 11:08	03/17/23 10:30
80-232196-22	AF56412	Water	03/06/23 15:15	03/17/23 10:30
80-232196-23	AF56413	Water	03/06/23 13:41	03/17/23 10:30
30-232196-24	AF56430	Water	03/06/23 10:10	03/17/23 10:30
80-232196-25	AF56406	Water	03/09/23 10:29	03/17/23 10:30
80-232196-26	AF56407	Water	03/09/23 10:34	03/17/23 10:30
80-232196-27	AF56418	Water	03/09/23 12:07	03/17/23 10:30
80-232196-28	AF56422	Water	03/09/23 13:19	03/17/23 10:30
30-232196-29	AF56419	Water	03/07/23 14:51	03/17/23 10:30
880-232196-30	AF56425	Water	03/07/23 12:49	03/17/23 10:30
680-232196-31	AF56426	Water	03/07/23 10:22	03/17/23 10:30
880-232196-32	AF56427	Water	03/07/23 10:22	03/17/23 10:30
80-232196-32	AF56408	Water	03/08/23 13:38	03/17/23 10:30
680-232196-34	AF56415	Water	03/08/23 15:13	03/17/23 10:30
680-232196-34 680-232196-35	AF56416	Water	03/08/23 10:09	03/17/23 10:30
580-232196-35 580-232196-36	AF56417	Water	03/08/23 10:14	03/17/23 10:30
680-232196-36 680-232196-37	AF56429		03/08/23 10:14	03/17/23 10:30
		Water		
80-232196-38 80-232196-39	AF56421	Water	03/01/23 14:41	03/17/23 10:30
	AF56428	Water	03/01/23 13:37	03/17/23 10:30
880-232196-40	AF56439	Water	03/01/23 10:22	03/17/23 10:30
880-232196-41	AF56441	Water	03/01/23 11:45	03/17/23 10:30
680-232196-42	AF56414	Water	03/02/23 12:46	03/17/23 10:30
880-232196-43	AF56423	Water	03/02/23 10:56	03/17/23 10:30
880-232196-44	AF56428	Water	03/02/23 00:00	03/17/23 10:30

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SL
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3010A	Preparation, Total Metals	SW846	EET SL
7470A	Preparation, Mercury	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 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: 680-232196-1

#### **Qualifiers**

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
Н	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
U	Indicates the analyte was analyzed for but not detected.

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.
n n	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

RPD Relative Percent Difference, a measure of the relative difference between two points
TEF Toxicity Equivalent Factor (Dioxin)

Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

RER

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Client Sample ID: AF56394

Job ID: 680-232196-1

Lab Sample ID: 680-232196-1

 Analyte	Result Qualit	fier RL	MDL Uni	Dil Fac	D	Method	Prep Type
Calcium	10600	500	ug/l	. 1	_	6010D	Total
							Recoverable
Iron	3060	100	ug/l	. 1		6010D	Total
							Recoverable
Magnesium	1000	500	ug/l	. 1		6010D	Total
							Recoverable
Sodium	5460	2000	ug/l	. 1		6010D	Total
							Recoverable
Aluminum	1280	100	ug/l	. 1		6020B	Total
							Recoverable
Arsenic	5.88	3.00	ug/l	. 1		6020B	Total
							Recoverable
Barium	76.0	5.00	ug/l	. 1		6020B	Total
							Recoverable
Cobalt	0.705	0.500	ug/l	. 1		6020B	Total
							Recoverable
Zinc	24.9	20.0	ug/l	. 1		6020B	Total
							Recoverable
Manganese	27.1	5.00	ug/l	. 1		6020B	Total
							Recoverable

Client Sample ID: AF56331 Lab Sample ID: 680-232196-2

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2790	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	251	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	902	500		ug/L	1		6010D	Total
								Recoverable
Sodium	2670	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	845	100		ug/L	1		6020B	Total
								Recoverable
Barium	31.7	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	1.52	0.500		ug/L	1		6020B	Total
								Recoverable
Manganese	44.6	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56332

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	85600	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	5130	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	2660	500		ug/L	1		6010D	Total
								Recoverable
Potassium	2030	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	11300	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	1170	100		ug/L	1		6020B	Total
								Recoverable
Barium	88.5	5.00		ug/L	1		6020B	Total

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

Lab Sample ID: 680-232196-3

Recoverable

# **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56332 (Continued)

Job ID: 680-232196-1

Lab Sample ID: 680-232196-3

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Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Manganese	46.7	5.00	ug/L	1	6020B	Total
						Recoverable

Client Sample ID: AF56395 Lab Sample ID: 680-232196-4

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac	D	Method	Prep Type
Calcium	367000	500	ug/L	1	_	6010D	Total
							Recoverable
Iron	5110	100	ug/L	. 1		6010D	Total
							Recoverable
Magnesium	45200	500	ug/L	. 1		6010D	Total
							Recoverable
Potassium	9860	1000	ug/L	1		6010D	Total
							Recoverable
Sodium	74600	2000	ug/L	. 1		6010D	Total
							Recoverable
Aluminum	948	100	ug/L	. 1		6020B	Total
							Recoverable
Arsenic	23.2	3.00	ug/L	. 1		6020B	Total
Barium	167	5.00		. 1		6020B	Recoverable
Danum	107	5.00	ug/L	. I		6020B	Total
Beryllium	1.96	0.500	ug/L	. 1		6020B	Recoverable Total
Der yıllıdırı	1.90	0.500	ug/L			0020B	Recoverable
Cobalt	19.7	0.500	ug/L	1		6020B	Total
Oobait	10.7	0.000	ug/L			0020B	Recoverable
Nickel	11.6	5.00	ug/L	. 1		6020B	Total
			9				Recoverable
Manganese	721	5.00	ug/L	1		6020B	Total
· ·			-5-				Recoverable

Client Sample ID: AF56396 Lab Sample ID: 680-232196-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	225000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	25400		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	14300		500		ug/L	1		6010D	Total
									Recoverable
Potassium	1980		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	42300		2000		ug/L	1		6010D	Total
									Recoverable
Barium	146		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	213		5.00		ug/L	1		6020B	Total
									Recoverable
Mercury	0.259	H H3	0.200		ug/L	1		7470A	Total/NA

Client Sample ID: AF56397 Lab Sample ID: 680-232196-6

Analyte	Result	Qualifier RI	. MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	54300	500	)	ug/L	1		6010D	Total
								Recoverable
Iron	731	100	)	ug/L	1		6010D	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56397 (Continued)

Job ID: 680-232196-1

Lab Sample ID: 680-232196-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	4040		500		ug/L	1	_	6010D	Total
									Recoverable
Potassium	1990		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	17300		2000		ug/L	1		6010D	Total
									Recoverable
Barium	39.4		5.00		ug/L	1		6020B	Total
									Recoverable
Zinc	309		20.0		ug/L	1		6020B	Total
									Recoverable
Manganese	112		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF56400 Lab Sample ID: 680-232196-7

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	262000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	789	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	3890	500		ug/L	1		6010D	Total
								Recoverable
Potassium	2320	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	13800	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	111	100		ug/L	1		6020B	Total
								Recoverable
Barium	42.1	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	18.6	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56442 Lab Sample ID: 680-232196-8

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	166000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	450	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	7730	500		ug/L	1		6010D	Total
								Recoverable
Potassium	4290	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	21900	2000		ug/L	1		6010D	Total
								Recoverable
Barium	32.6	5.00		ug/L	1		6020B	Total
								Recoverable
langanese	58.2	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56443 Lab Sample ID: 680-232196-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	302		100		ug/L	1		6010D	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

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Client Sample ID: AF56443 (Continued)

Job ID: 680-232196-1

Lab Sample ID: 680-232196-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	7590		500		ug/L	1	_	6010D	Total
									Recoverable
Potassium	4050		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	20700		2000		ug/L	1		6010D	Total
									Recoverable
Barium	33.8		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	57.3		5.00		ug/L	1		6020B	Total
									Recoverable

Lab Sample ID: 680-232196-10 Client Sample ID: AF56402

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	204000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	23500	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	24400	500		ug/L	1		6010D	Total
								Recoverable
Potassium	11400	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	35500	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	386	100		ug/L	1		6020B	Total
								Recoverable
Arsenic	31.0	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	74.9	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	283	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56403 Lab Sample ID: 680-232196-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	51.4		50.0		ug/L	1	_	6010D	Total/NA
Calcium	644000		500		ug/L	1		6010D	Total
									Recoverable
Iron	25200		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	90300		500		ug/L	1		6010D	Total
									Recoverable
Potassium	28200		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	155000		2000		ug/L	1		6010D	Total
									Recoverable
Barium	332		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	820		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF56404 Lab Sample ID: 680-232196-12

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	) Method	Prep Type
Lithium	58.2	50.0	ug/L		6010D	Total/NA
Calcium	659000	500	ug/L	1	6010D	Total
						Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

3/28/2023

Job ID: 680-232196-1

Client Sample ID: AF56404 (Continued)

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Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	25100	100		ug/L	1	_	6010D	 Total
								Recoverable
Magnesium	91700	500		ug/L	1		6010D	Total
								Recoverable
Potassium	29000	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	158000	2000		ug/L	1		6010D	Total
								Recoverable
Barium	325	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	800	5.00		ug/L	1		6020B	Total
_								Recoverable

### Client Sample ID: AF56434

### Lab Sample ID: 680-232196-13

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62900	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	3180	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	1950	500		ug/L	1		6010D	Total
								Recoverable
Sodium	4810	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	1430	100		ug/L	1		6020B	Total
								Recoverable
Barium	41.2	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	2.15	0.500		ug/L	1		6020B	Total
								Recoverable
Zinc	264	20.0		ug/L	1		6020B	Total
								Recoverable
Manganese	52.9	5.00		ug/L	1		6020B	Total
L								Recoverable

### Client Sample ID: AF56433

### Lab Sample ID: 680-232196-14

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	433000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	17100	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	12200	500		ug/L	1		6010D	Total
								Recoverable
Potassium	5480	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	10300	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	219	100		ug/L	1		6020B	Total
								Recoverable
Barium	51.1	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	1240	5.00		ug/L	1		6020B	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF56435

Job ID: 680-232196-1

Lab Sample ID: 680-232196-15

Analyte	Result	Qualifier RL	MDL U	Jnit	Dil Fac	D	Method	Prep Type
Calcium	20400	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	863	100	ι	ug/L	1		6010D	Total
								Recoverable
Magnesium	821	500	ι	ug/L	1		6010D	Total
								Recoverable
Sodium	3070	2000	ι	ug/L	1		6010D	Total
								Recoverable
Aluminum	3470	100	ι	ug/L	1		6020B	Total
								Recoverable
Arsenic	8.46	3.00	ι	ug/L	1		6020B	Total
								Recoverable
Barium	29.9	5.00	ι	ug/L	1		6020B	Total
								Recoverable
Cobalt	1.03	0.500	ι	ug/L	1		6020B	Total
								Recoverable
Manganese	24.2	5.00	ι	ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56436				Lab	Sample ID	: 680-232196-16
– Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Calcium	85500	500	ug/L	1	6010D	Total
						Recoverable
Iron	1170	100	ug/L	1	6010D	Total
						Recoverable
Magnesium	1970	500	ug/L	1	6010D	Total
						Recoverable
Potassium	1460	1000	ug/L	1	6010D	Total
						Recoverable
Sodium	4490	2000	ug/L	1	6010D	Total
						Recoverable
Barium	35.5	5.00	ug/L	1	6020B	Total
						Recoverable
Zinc	53.3	20.0	ug/L	1	6020B	Total
						Recoverable
Manganese	81.1	5.00	ug/L	1	6020B	Total
						Recoverable

Client Sample ID: AF56	6437					Lab	Sa	ample ID: (	680-232196-17
– Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92300		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	1310		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	1710		500		ug/L	1		6010D	Total
									Recoverable
Potassium	1230		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	3600		2000		ug/L	1		6010D	Total
									Recoverable
Barium	36.2		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	88.0		5.00		ug/L	1		6020B	Total
_									Recoverable

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56438

Job ID: 680-232196-1

Lab Sample ID: 680-232196-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	287000		500		ug/L	1	_	6010D	 Total
									Recoverable
Iron	1800		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	28000		500		ug/L	1		6010D	Total
									Recoverable
Potassium	6740		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	17500		2000		ug/L	1		6010D	Total
									Recoverable
Barium	34.9		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	495		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF56409 Lab Sample ID: 680-232196-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	104		50.0		ug/L	1	_	6010D	Total/NA
Calcium	1150000		5000		ug/L	10		6010D	Total
									Recoverable
Magnesium	31700		500		ug/L	1		6010D	Total
									Recoverable
Potassium	15800		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	144000		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	13.8		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	57.7		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	6.96		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF56410 Lab Sample ID: 680-232196-20

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac	D	Method	Prep Type
Lithium	128	50.0	ug/L	1	_	6010D	Total/NA
Calcium	1130000	5000	ug/L	10		6010D	Total
							Recoverable
Magnesium	30600	500	ug/L	1		6010D	Total
							Recoverable
Potassium	15400	1000	ug/L	1		6010D	Total
							Recoverable
Sodium	138000	2000	ug/L	1		6010D	Total
							Recoverable
Arsenic	12.6	3.00	ug/L	1		6020B	Total
							Recoverable
Barium	52.0	5.00	ug/L	1		6020B	Total
							Recoverable
Manganese	7.61	5.00	ug/L	1		6020B	Total
							Recoverable

Client Sample ID: AF56411 Lab Sample ID: 680-232196-21

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Lithium	77.1	50.0	ug/L		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56411 (Continued)

Job ID: 680-232196-1

Lab Sample ID: 680-232196-21

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac	D	Method	Prep Type
Calcium	796000	5000	ug/L	. 10	_	6010D	Total
							Recoverable
Magnesium	40800	500	ug/L	. 1		6010D	Total
							Recoverable
Potassium	13000	1000	ug/L	. 1		6010D	Total
							Recoverable
Sodium	121000	2000	ug/L	. 1		6010D	Total
							Recoverable
Arsenic	8.18	3.00	ug/L	. 1	1 6020B	Total	
							Recoverable
Barium	95.4	5.00	ug/L	. 1		6020B	Total
							Recoverable
Zinc	199	F1 20.0	ug/L	. 1		6020B	Total
							Recoverable
Manganese	101	5.00	ug/L	. 1		6020B	Total
							Recoverable

Client Sample ID: AF56412 Lab Sample ID: 680-232196-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	51.5		50.0		ug/L	1	_	6010D	Total/NA
Calcium	701000		500		ug/L	1		6010D	Total
									Recoverable
Iron	14700		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	30200		500		ug/L	1		6010D	Total
									Recoverable
Potassium	7240		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	108000		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	4.94		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	165		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	355		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF56413 Lab Sample ID: 680-232196-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	163000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	10100		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	11200		500		ug/L	1		6010D	Total
									Recoverable
Potassium	5010		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	72500		2000		ug/L	1		6010D	Total
									Recoverable
Barium	88.7		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.870		0.500		ug/L	1		6020B	Total
									Recoverable
Manganese	235		5.00		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56430

Job ID: 680-232196-1

Lab Sample ID: 680-232196-24

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Calcium	446000	500	ug/L	1	6010D	Total
						Recoverable
Iron	33300	100	ug/L	1	6010D	Total
						Recoverable
Magnesium	72500	500	ug/L	1	6010D	Total
						Recoverable
Potassium	6540	1000	ug/L	1	6010D	Total
						Recoverable
Sodium	87200	2000	ug/L	1	6010D	Total
						Recoverable
Barium	36.3	5.00	ug/L	1	6020B	Total
						Recoverable
Cobalt	6.51	0.500	ug/L	1	6020B	Total
						Recoverable
Manganese	3770	5.00	ug/L	1	6020B	Total
						Recoverable

Client Sample ID: AF56406 Lab Sample ID: 680-232196-25

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	203000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	1450	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	18100	500		ug/L	1		6010D	Total
								Recoverable
Potassium	4990	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	45500	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	1940	100		ug/L	1		6020B	Total
								Recoverable
Barium	36.4	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	1.84	0.500		ug/L	1		6020B	Total
								Recoverable
Zinc	45.6	20.0		ug/L	1		6020B	Total
								Recoverable
Manganese	183	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56407 Lab Sample ID: 680-232196-26

Analyte	Result	Qualifier RI	. MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	207000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	1440	100	)	ug/L	1		6010D	Total
								Recoverable
Magnesium	18200	500	)	ug/L	1		6010D	Total
								Recoverable
Potassium	5150	1000	1	ug/L	1		6010D	Total
								Recoverable
Sodium	46200	2000	1	ug/L	1		6010D	Total
								Recoverable
Aluminum	2090	100	)	ug/L	1		6020B	Total
								Recoverable
Barium	36.9	5.00		ug/L	1		6020B	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

Client Sample ID: AF56407 (Continued)

Job ID: 680-232196-1

Lab Sample ID: 680-232196-26

Analyte	Result	Qualifier RL	MDL U	Init	Dil Fac	D	Method	Prep Type
Cobalt	1.65	0.500	u	g/L	1	_	6020B	Total
								Recoverable
Zinc	29.1	20.0	u	g/L	1		6020B	Total
								Recoverable
Manganese	207	5.00	u	g/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF56418 Lab Sample ID: 680-232196-27

Analyte	Result	Qualifier R	. MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	76.7	50.	)	ug/L	1	_	6010D	Total/NA
Calcium	94400	500	)	ug/L	1		6010D	Total
								Recoverable
Iron	840	10	)	ug/L	1		6010D	Total
								Recoverable
Magnesium	7510	500	)	ug/L	1		6010D	Total
								Recoverable
Molybdenum	90.2	10.0	)	ug/L	1		6010D	Total
								Recoverable
Potassium	7420	100	)	ug/L	1		6010D	Total
								Recoverable
Sodium	25200	200	)	ug/L	1		6010D	Total
								Recoverable
Aluminum	134	10	)	ug/L	1		6020B	Total
•	0.40	0.00		n			00000	Recoverable
Arsenic	249	3.00	)	ug/L	1		6020B	Total
Dedicati	407						COOOD	Recoverable
Barium	127	5.00	)	ug/L	1		6020B	Total
Cobalt	2.17	0.50	<b>.</b>	/1	1		6020B	Recoverabl
CODAIL	2.17	0.500	,	ug/L	1		UUZUD	Total
Manganasa	112	5.0	1	ua/l	1		6020B	Recoverabl
Manganese	113	5.0	J	ug/L	1		00200	Total Recoverabl

#### Client Sample ID: AF56422 Lab Sample ID: 680-232196-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	250000		500		ug/L	1	_	6010D	 Total
									Recoverable
Iron	15600		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	9000		500		ug/L	1		6010D	Total
									Recoverable
Potassium	3920		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	74400		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	8.53		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	121		5.00		ug/L	1		6020B	Total
									Recoverable
Zinc	37.7		20.0		ug/L	1		6020B	Total
									Recoverable
Manganese	272		5.00		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF56419

Job ID: 680-232196-1

Lab Sample ID: 680-232196-29

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	234	50.0		ug/L	1	_	6010D	Total/NA
Calcium	601000	500		ug/L	1		6010D	Total
								Recoverable
Iron	19700	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	88700	500		ug/L	1		6010D	Total
								Recoverable
Molybdenum	94.7	10.0		ug/L	1		6010D	Total
								Recoverable
Potassium	22200	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	44900	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	672	100		ug/L	1		6020B	Total
								Recoverable
Arsenic	474	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	83.9	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	1.29	0.500		ug/L	1		6020B	Total
								Recoverable
Zinc	24.2	20.0		ug/L	1		6020B	Total
								Recoverable
Manganese	1020	5.00		ug/L	1		6020B	Total
-								Recoverable

Client Sample ID: AF56425

Lab Sample ID: 680-232196-30

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	68500	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	3190	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	2680	500		ug/L	1		6010D	Total
								Recoverable
Potassium	2060	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	11100	2000		ug/L	1		6010D	Total
								Recoverable
Barium	9.10	5.00		ug/L	1		6020B	Total
								Recoverable
Copper	30.7	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	90.8	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF56426

Lab Sample ID: 680-232196-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20600		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	386		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	1730		500		ug/L	1		6010D	Total
									Recoverable
Sodium	4370		2000		ug/L	1		6010D	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

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Client Sample ID: AF56426 (Continued)

Job ID: 680-232196-1

Lab Sample ID: 680-232196-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	164		100		ug/L		_	6020B	Total
									Recoverable
Barium	34.6		5.00		ug/L	1		6020B	Total
									Recoverable
Zinc	32.7		20.0		ug/L	1		6020B	Total
									Recoverable
Manganese	18.4		5.00		ug/L	1		6020B	Total
									Recoverable

# Client Sample ID: AF56427 Lab Sample ID: 680-232196-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	22400		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	392		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	1820		500		ug/L	1		6010D	Total
									Recoverable
Sodium	4470		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	178		100		ug/L	1		6020B	Total
									Recoverable
Barium	34.5		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	19.9		5.00		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF56408 Lab Sample ID: 680-232196-33

Analyte	Result	Qualifier RL	MDL L	Unit	Dil Fac	D	Method	Prep Type
Calcium	416000	500	u u	ug/L		_	6010D	Total
								Recoverable
Iron	56000	100	u	ug/L	1		6010D	Total
								Recoverable
Magnesium	30400	500	u	ug/L	1		6010D	Total
								Recoverable
Potassium	2780	1000	u	ug/L	1		6010D	Total
								Recoverable
Sodium	127000	2000	u	ug/L	1		6010D	Total
								Recoverable
Barium	305	5.00	u	ug/L	1		6020B	Total
								Recoverable
Cobalt	0.555	0.500	u	ug/L	1		6020B	Total
								Recoverable
Zinc	136	20.0	u	ug/L	1		6020B	Total
								Recoverable
Manganese	694	5.00	u	ug/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF56415 Lab Sample ID: 680-232196-34

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Calcium	202000	500	ug/L		6010D	Total
						Recoverable
Iron	8580	100	ug/L	1	6010D	Total
						Recoverable
Magnesium	19800	500	ug/L	1	6010D	Total
						Recoverable

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Job ID: 680-232196-1

Lab	Sample	ID·	680-2321	96-34
Lab	Jampie	ID.	000-232	30-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	11800		1000		ug/L	1	_	6010D	Total
									Recoverable
Sodium	128000		2000		ug/L	1		6010D	Total
									Recoverable
Barium	86.8		5.00		ug/L	1		6020B	Total
									Recoverable
Zinc	39.3		20.0		ug/L	1		6020B	Total
									Recoverable
Manganese	203		5.00		ug/L	1		6020B	Total
_									Recoverable

### Client Sample ID: AF56416

### Lab Sample ID: 680-232196-35

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	260000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	1570	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	38100	500		ug/L	1		6010D	Total
								Recoverable
Molybdenum	18.0	10.0		ug/L	1		6010D	Total
								Recoverable
Potassium	13800	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	69700	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	85.9	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	44.4	5.00		ug/L	1		6020B	Total
								Recoverable
Zinc	413	20.0		ug/L	1		6020B	Total
								Recoverable
Manganese	82.2	5.00		ug/L	1		6020B	Total
								Recoverable

### Client Sample ID: AF56417

#### Lab Sample ID: 680-232196-36

Analyte	Result	Qualifier F	RL MDI	. Unit	Dil Fac	D	Method	Prep Type
Calcium	260000	5	00	ug/L	1	_	6010D	Total
								Recoverable
Iron	1740	1	00	ug/L	1		6010D	Total
								Recoverable
Magnesium	37600	5	00	ug/L	1		6010D	Total
								Recoverable
Molybdenum	21.2	10	.0	ug/L	1		6010D	Total
								Recoverable
Potassium	13800	10	00	ug/L	1		6010D	Total
								Recoverable
Sodium	69400	20	00	ug/L	1		6010D	Total
								Recoverable
Arsenic	85.8	3.	00	ug/L	1		6020B	Total
								Recoverable
Barium	45.4	5.	00	ug/L	1		6020B	Total
								Recoverable
Zinc	27.9	20	.0	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.

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Client Sample ID: AF56429

Job ID: 680-232196-1

Lab Sample ID: 680-232196-37

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac	Method	Prep Type
Calcium	73100	500	ug/L		6010D	Total
						Recoverable
Iron	94400	100	ug/L	1	6010D	Total
						Recoverable
Magnesium	26000	500	ug/L	1	6010D	Total
						Recoverable
Sodium	82200	2000	ug/L	1	6010D	Total
						Recoverable
Aluminum	2410	100	ug/L	1	6020B	Total
						Recoverable
Barium	258	5.00	ug/L	1	6020B	Total
						Recoverable
Beryllium	0.985	0.500	ug/L	1	6020B	Total
						Recoverable
Cobalt	18.6	0.500	ug/L	1	6020B	Total
						Recoverable
Lead	3.19	2.50	ug/L	1	6020B	Total
						Recoverable
Manganese	1540	5.00	ug/L	1	6020B	Total
						Recoverable

- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	114000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	4430		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	16900		500		ug/L	1		6010D	Total
									Recoverable
Potassium	10500		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	21200		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	159		100		ug/L	1		6020B	Total
									Recoverable
Barium	37.8		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	128		5.00		ug/L	1		6020B	Total

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	199000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	714	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	15200	500		ug/L	1		6010D	Total
								Recoverable
Potassium	6130	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	38200	2000		ug/L	1		6010D	Total
								Recoverable
Barium	8.73	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	59.2	5.00		ug/L	1		6020B	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

3/28/2023

Recoverable

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Client Sample ID: AF56439

Job ID: 680-232196-1

Lab Sample ID: 680-232196-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	138000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	9540		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	14600		500		ug/L	1		6010D	Total
									Recoverable
Potassium	7790		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	38300		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	1000		100		ug/L	1		6020B	Total
									Recoverable
Arsenic	42.3		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	104		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	6.88		0.500		ug/L	1		6020B	Total
									Recoverable
Zinc	67.1		20.0		ug/L	1		6020B	Total
									Recoverable
Manganese	167		5.00		ug/L	1		6020B	Total
									Recoverable

Lab Sample ID: 680-232196-41 Client Sample ID: AF56441

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	121		50.0		ug/L	1	_	6010D	Total/NA
Calcium	191000		500		ug/L	1		6010D	Total
									Recoverable
Iron	5280		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	10900		500		ug/L	1		6010D	Total
									Recoverable
Potassium	5500		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	24400		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	182		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	78.6		5.00		ug/L	1		6020B	Total
									Recoverable
Manganese	324		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF56414 Lab Sample ID: 680-232196-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	495000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	27800		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	49100		500		ug/L	1		6010D	Total
									Recoverable
Potassium	6740		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	101000		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: 680-232196-1

Lab Sample ID: 680-232196-42

Client Sample ID: AF56414 (Continued)						Lab	680-232196-42		
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	413		5.00		ug/L	1	_	6020B	Total
									Recoverable
Manganese	626		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF56423 Lab Sample ID: 680-232196-43

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	104	50.0		ug/L	1	_	6010D	Total/NA
Calcium	429000	500		ug/L	1		6010D	Total
								Recoverable
Iron	16600	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	52600	500		ug/L	1		6010D	Total
								Recoverable
Potassium	13400	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	92700	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	363	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	262	5.00		ug/L	1		6020B	Total
								Recoverable
Manganese	887	5.00		ug/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF56428 Lab Sample ID: 680-232196-44

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	102000	500		ug/L	1	_	6010D	Total
								Recoverable
Iron	89800	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	23400	500		ug/L	1		6010D	Total
								Recoverable
Potassium	10800	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	37100	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	88.3	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	123	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	0.630	0.500		ug/L	1		6020B	Total
								Recoverable
Manganese	362	5.00		ug/L	1		6020B	Total
								Recoverabl

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-1

Matrix: Water

Client Sample ID: AF56394 Date Collected: 02/14/23 12:33

Analyte

Mercury

Method: SW846 6010D - Me	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 13:50	
Method: SW846 6010D - Me	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	10600		500		ug/L		03/20/23 09:08	03/21/23 22:21	
Iron	3060		100		ug/L		03/20/23 09:08	03/21/23 22:21	
Magnesium	1000		500		ug/L		03/20/23 09:08	03/21/23 22:21	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:21	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:21	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:21	
Sodium	5460		2000		ug/L		03/20/23 09:08	03/21/23 22:21	
Method: SW846 6020B - Me	etals (ICP/MS) - Total	Recoverable	<b>!</b>						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	1280		100		ug/L		03/20/23 09:08	03/21/23 18:05	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Arsenic	5.88		3.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Barium	76.0		5.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:30	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:05	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Cobalt	0.705		0.500		ug/L		03/20/23 09:08	03/21/23 18:05	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:05	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:05	
Zinc	24.9		20.0		ug/L		03/20/23 09:08	03/21/23 18:05	
Manganese	27.1		5.00		ug/L		03/20/23 09:08	03/21/23 18:05	

RL

0.200

Result Qualifier

0.200 U H H3

MDL Unit

ug/L

Prepared

03/20/23 12:30

Dil Fac

Analyzed

03/20/23 19:57

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56331

Date Collected: 02/14/23 13:51

Lab Sample ID: 680-232196-2 Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - M	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:13	
Method: SW846 6010D - M	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	2790		500		ug/L		03/20/23 09:08	03/21/23 22:31	
Iron	251		100		ug/L		03/20/23 09:08	03/21/23 22:31	
Magnesium	902		500		ug/L		03/20/23 09:08	03/21/23 22:31	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:31	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:31	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:31	
Sodium	2670		2000		ug/L		03/20/23 09:08	03/21/23 22:31	
	otala (ICD/MC) Total	Dagassanahla							
Method: SW846 6020B - M Analyte	· · · · · · · · · · · · · · · · · · ·	Qualifier	e RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	845		100		ug/L		03/20/23 09:08	03/21/23 18:16	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Barium	31.7		5.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:50	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:16	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Cobalt	1.52		0.500		ug/L		03/20/23 09:08	03/21/23 18:16	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:16	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:16	
Manganese	44.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:16	
Method: SW846 7470A - M	, ,								
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-232196-3

Matrix: Water

Job ID: 680-232196-1

Client Sample ID: AF56332 Date Collected: 02/14/23 15:22

Mercury

Method: SW846 6010D - Me	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:18	1
Method: SW846 6010D - Me	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	85600		500		ug/L		03/20/23 09:08	03/21/23 22:40	1
Iron	5130		100		ug/L		03/20/23 09:08	03/21/23 22:40	•
Magnesium	2660		500		ug/L		03/20/23 09:08	03/21/23 22:40	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:40	1
Potassium	2030		1000		ug/L		03/20/23 09:08	03/21/23 22:40	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:40	•
Sodium	11300		2000		ug/L		03/20/23 09:08	03/21/23 22:40	
Method: SW846 6020B - Me	stale (ICD/MS) - Total	Pecoverable							
Analyte		Qualifier	, RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1170		100		ug/L		03/20/23 09:08	03/21/23 18:20	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:20	•
Barium	88.5		5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 09:54	•
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:20	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:20	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:20	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:20	•
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:20	•
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:20	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:20	
Manganese	46.7		5.00		ug/L		03/20/23 09:08	03/21/23 18:20	
Method: SW846 7470A - Me	ercury (CVAA)								
Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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03/20/23 12:45

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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Client Sample ID: AF56395 Lab Sample ID: 680-232196-4

Matrix: Water

Date Collected: 02/15/23 11:36 Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - N	Metals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:36	
Method: SW846 6010D - N	Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	367000		500		ug/L		03/20/23 09:08	03/21/23 22:44	
Iron	5110		100		ug/L		03/20/23 09:08	03/21/23 22:44	
Magnesium	45200		500		ug/L		03/20/23 09:08	03/21/23 22:44	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:44	
Potassium	9860		1000		ug/L		03/20/23 09:08	03/21/23 22:44	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:44	
Sodium	74600		2000		ug/L		03/20/23 09:08	03/21/23 22:44	
M-41I- OWO 40 COOOD - B	M-4-1- (IOD/MO) - T-4-1	December							
Method: SW846 6020B - N Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	948		100		ug/L		03/20/23 09:08	03/21/23 18:24	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Arsenic	23.2		3.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Barium	167		5.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Beryllium	1.96		0.500		ug/L		03/20/23 09:08	03/22/23 09:58	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:24	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Cobalt	19.7		0.500		ug/L		03/20/23 09:08	03/21/23 18:24	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:24	
Nickel	11.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:24	
Manganese	721		5.00		ug/L		03/20/23 09:08	03/21/23 18:24	
Method: SW846 7470A - N	,					_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F

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03/20/23 12:45 03/21/23 12:56

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56396 Lab Sample ID: 680-232196-5 Date Collected: 02/15/23 13:21

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - M	letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:41	•
Method: SW846 6010D - M	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	225000		500		ug/L		03/20/23 09:08	03/21/23 22:47	
Iron	25400		100		ug/L		03/20/23 09:08	03/21/23 22:47	
Magnesium	14300		500		ug/L		03/20/23 09:08	03/21/23 22:47	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:47	
Potassium	1980		1000		ug/L		03/20/23 09:08	03/21/23 22:47	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:47	
Sodium	42300		2000		ug/L		03/20/23 09:08	03/21/23 22:47	
Method: SW846 6020B - M	letals (ICP/MS) - Total	Recoverable							
Analyte		Qualifier	, RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:28	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Barium	146		5.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 10:02	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:28	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:28	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:28	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:28	
Manganese	213		5.00		ug/L		03/20/23 09:08	03/21/23 18:28	
Method: SW846 7470A - M	lercury (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

0.200

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0.259 HH3

03/20/23 12:45

03/21/23 14:04

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-6

Matrix: Water

Client Sample ID: AF56397 Date Collected: 02/16/23 10:53

Mercury

Method: SW846 6010D - Metals (I	•					_			
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:45	
Method: SW846 6010D - Metals (I	CP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	54300		500		ug/L		03/20/23 09:08	03/21/23 22:50	
Iron	731		100		ug/L		03/20/23 09:08	03/21/23 22:50	
Magnesium	4040		500		ug/L		03/20/23 09:08	03/21/23 22:50	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:50	
Potassium	1990		1000		ug/L		03/20/23 09:08	03/21/23 22:50	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:50	
Sodium	17300		2000		ug/L		03/20/23 09:08	03/21/23 22:50	
Method: SW846 6020B - Metals (I Analyte	,	Recoverable Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100		100		ug/L		03/20/23 09:08	03/21/23 18:32	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:32	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:32	
Barium	39.4		5.00		ug/L		03/20/23 09:08	03/21/23 18:32	
					-				
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/22/23 10:06	
•	0.500		0.500 0.500		ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/22/23 10:06 03/21/23 18:32	
Beryllium Cadmium Chromium		U			ug/L				
Cadmium	0.500	U	0.500		ug/L ug/L		03/20/23 09:08	03/21/23 18:32	
Cadmium Chromium Cobalt	0.500 5.00	U U U	0.500 5.00		ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 18:32 03/21/23 18:32	
Cadmium Chromium	0.500 5.00 0.500	บ บ บ	0.500 5.00 0.500		ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 18:32 03/21/23 18:32 03/21/23 18:32	
Cadmium Chromium Cobalt Copper	0.500 5.00 0.500 5.00	U U U U	0.500 5.00 0.500 5.00		ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32	
Cadmium Chromium Cobalt Copper Lead Nickel	0.500 5.00 0.500 5.00 2.50	U U U U U	0.500 5.00 0.500 5.00 2.50		ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32	
Cadmium Chromium Cobalt Copper Lead Nickel Silver	0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U	0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32	
Cadmium Chromium Cobalt Copper Lead	0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U	0.500 5.00 0.500 5.00 2.50 5.00 1.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32 03/21/23 18:32	

0.200

ug/L

0.200 U H H3

03/21/23 12:43

03/20/23 12:45

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Project/3ite. 123913/Jivi02.09.G01.1/3030/

Client Sample ID: AF56400 Lab Sample ID: 680-232196-7

Matrix: Water

Date Collected: 02/16/23 12:55 Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - Me	tals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 14:50	
Method: SW846 6010D - Me	tals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	262000		500		ug/L		03/20/23 09:08	03/21/23 22:53	
Iron	789		100		ug/L		03/20/23 09:08	03/21/23 22:53	
Magnesium	3890		500		ug/L		03/20/23 09:08	03/21/23 22:53	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:53	
Potassium	2320		1000		ug/L		03/20/23 09:08	03/21/23 22:53	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:53	
Sodium	13800		2000		ug/L		03/20/23 09:08	03/21/23 22:53	
Mathada CWOAC COOOD Ma	tala (ICD/MC) Tatal	Dagawanahla							
Method: SW846 6020B - Me Analyte	•	Qualifier	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum			100		ug/L		03/20/23 09:08	03/21/23 18:44	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Barium	42.1		5.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:44	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:44	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:44	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:44	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:44	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:44	
Manganese	18.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:44	
					-				
Method: SW846 7470A - Me	rcury (CVAA)								
Analyte	Result								

0.200

ug/L

03/20/23 13:40

03/21/23 11:09

0.200 U H H3

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-8

Matrix: Water

Client Sample ID: AF56442 Date Collected: 02/16/23 14:07

Method: SW846 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:08	
Method: SW846 6010D - Metals (ICP)	- Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	166000		500		ug/L		03/20/23 09:08	03/21/23 22:57	
ron	450		100		ug/L		03/20/23 09:08	03/21/23 22:57	
Magnesium	7730		500		ug/L		03/20/23 09:08	03/21/23 22:57	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:57	
Potassium	4290		1000		ug/L		03/20/23 09:08	03/21/23 22:57	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:57	
Sodium	21900		2000		ug/L		03/20/23 09:08	03/21/23 22:57	
Method: SW846 6020B - Metals (ICP/	MS) - Total	Recoverable	<b>:</b>						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:48	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:48	
Barium	32.6		5.00		ug/L		03/20/23 09:08	03/21/23 18:48	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:48	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:48	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:48	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	
_ead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:48	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:48	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:48	
- Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:48	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:48	
Manganese	58.2		5.00		ug/L		03/20/23 09:08	03/21/23 18:48	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U H H3	0.200		ug/L		03/20/23 13:40	03/21/23 11:19	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56443

e ID: AF56443 Lab Sample ID: 680-232196-9

Matrix: Water

Date Collected: 02/16/23 14:12 Date Received: 03/17/23 10:30

Mercury

AnalyteLithium	Result	Qualifier							
Lithium		<b>w</b> uaiiiiei	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:13	
Method: SW846 6010D - Metals (ICP) -	Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	160000		500		ug/L		03/20/23 09:08	03/21/23 23:00	
Iron	302		100		ug/L		03/20/23 09:08	03/21/23 23:00	
Magnesium	7590		500		ug/L		03/20/23 09:08	03/21/23 23:00	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:00	
Potassium	4050		1000		ug/L		03/20/23 09:08	03/21/23 23:00	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:00	
Sodium	20700		2000		ug/L		03/20/23 09:08	03/21/23 23:00	
Mathada CN/04C COOOD Matala (ICD/A	IC) T-4-1	Dagawanahla							
Method: SW846 6020B - Metals (ICP/N Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 18:52	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Barium	33.8		5.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:52	
- Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:52	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:52	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:52	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:52	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:52	
Manganese	57.3		5.00		ug/L		03/20/23 09:08	03/21/23 18:52	
S .									
Method: SW846 7470A - Mercury (CVA									

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56402

Lab Sample ID: 680-232196-10

Matrix: Water

Date Collected: 02/27/23 12:47

Mercury

Method: SW846 6010D - Me	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:18	
Method: SW846 6010D - Me	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	204000		500		ug/L		03/20/23 09:08	03/21/23 23:03	
Iron	23500		100		ug/L		03/20/23 09:08	03/21/23 23:03	
Magnesium	24400		500		ug/L		03/20/23 09:08	03/21/23 23:03	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:03	
Potassium	11400		1000		ug/L		03/20/23 09:08	03/21/23 23:03	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:03	
Sodium	35500		2000		ug/L		03/20/23 09:08	03/21/23 23:03	
Method: SW846 6020B - Me	otals (ICP/MS) Total	Pocovorable							
Analyte	` '	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	386		100		ug/L		03/20/23 09:08	03/21/23 18:56	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Arsenic	31.0		3.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Barium	74.9		5.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:56	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:56	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 18:56	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 18:56	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 18:56	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 18:56	
Manganese	283		5.00		ug/L		03/20/23 09:08	03/21/23 18:56	
	(0)(4.4)								
Method: SW846 7470A - Me	• ' '	Qualifier	RL	MD	Unit	D	Droparad	Analyzad	Dil Fa
Analyte	Result	Qualifier	KL	MDL	OHIL	ט	Prepared	Analyzed	ווט

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03/20/23 13:40

03/21/23 10:42

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56403** 

Lab Sample ID: 680-232196-11 Date Collected: 02/27/23 09:57

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	51.4		50.0		ug/L		03/23/23 14:13	03/24/23 15:22	
Method: SW846 6010D - Meta	als (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	644000		500		ug/L		03/20/23 09:08	03/21/23 23:06	
Iron	25200		100		ug/L		03/20/23 09:08	03/21/23 23:06	
Magnesium	90300		500		ug/L		03/20/23 09:08	03/21/23 23:06	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:06	
Potassium	28200		1000		ug/L		03/20/23 09:08	03/21/23 23:06	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:06	
Sodium	155000		2000		ug/L		03/20/23 09:08	03/21/23 23:06	
Method: SW846 6020B - Meta	olo (ICD/MS) Total	Bassyarahla							
Metriou. 300646 60206 - Meta Analyte	` '	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:00	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:00	
					-				
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:00	
Arsenic <b>Barium</b>	3.00 332	U	3.00 5.00		ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00	
Barium	332	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:00	
<b>Barium</b> Beryllium	<b>332</b> 0.500	U U	5.00 0.500		ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00	
<b>Barium</b> Beryllium Cadmium	332 0.500 0.500	บ บ บ	5.00 0.500 0.500		ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	
<b>Barium</b> Beryllium Cadmium Chromium	332 0.500 0.500 5.00	U U U	5.00 0.500 0.500 5.00		ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	
<b>Barium</b> Beryllium Cadmium Chromium Cobalt	332 0.500 0.500 5.00 0.500	U U U U	5.00 0.500 0.500 5.00 0.500		ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	
<b>Barium</b> Beryllium Cadmium Chromium Cobalt Copper	332 0.500 0.500 5.00 0.500 5.00	U U U U U	5.00 0.500 0.500 5.00 0.500 5.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	
Barium Beryllium Cadmium Chromium Cobalt Copper Lead	332 0.500 0.500 5.00 0.500 5.00 2.50	U U U U U U	5.00 0.500 0.500 5.00 0.500 5.00 2.50		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	
Barium Beryllium Cadmium Chromium Cobalt Copper Lead Nickel	332 0.500 0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U U	5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	
Barium Beryllium Cadmium Chromium Cobalt Copper Lead Nickel	332 0.500 0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U U	5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00 03/21/23 19:00	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56404 Lab Sample ID: 680-232196-12 Date Collected: 02/27/23 10:02

Matrix: Water

Date Received: 03/17/23 10:30

Analyte

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	58.2		50.0		ug/L		03/23/23 14:13	03/24/23 15:27	
Method: SW846 6010D - N	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	659000		500		ug/L		03/20/23 09:08	03/21/23 23:10	
Iron	25100		100		ug/L		03/20/23 09:08	03/21/23 23:10	
Magnesium	91700		500		ug/L		03/20/23 09:08	03/21/23 23:10	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:10	
Potassium	29000		1000		ug/L		03/20/23 09:08	03/21/23 23:10	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:10	
Sodium	158000		2000		ug/L		03/20/23 09:08	03/21/23 23:10	
<b>Analyte</b> Aluminum	100	Qualifier U	RL 100		Unit ug/L	D	Prepared 03/20/23 09:08	Analyzed 03/21/23 19:03	Dil Fa
Method: SW846 6020B - N	Metals (ICP/MS) - Total	Recoverable	<b>:</b>						
					•				
Antimony	5.00	_	5.00		ug/L		03/20/23 09:08	03/21/23 19:03	
Arsenic	3.00		3.00		ug/L		03/20/23 09:08	03/21/23 19:03	
Barium	325		5.00		ug/L		03/20/23 09:08	03/21/23 19:03	
Beryllium	0.500	_	0.500		ug/L		03/20/23 09:08	03/21/23 19:03	
Cadmium	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:03	
Chromium	5.00	_	5.00		ug/L		03/20/23 09:08	03/21/23 19:03	
	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:03	
	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:03	
			2.50		ug/L		03/20/23 09:08	03/21/23 19:03	
Cobalt Copper Lead	2.50						03/20/23 09:08	03/21/23 19:03	
Copper Lead			5.00		ug/L		00/20/20 00:00	00/21/20 10:00	
Copper Lead Nickel	2.50 5.00 1.00	U U			ug/L ug/L		03/20/23 09:08	03/21/23 19:03	
Copper Lead Nickel Silver	2.50 5.00	U U	5.00		-				
Copper	2.50 5.00 1.00	U U U	5.00 1.00		ug/L		03/20/23 09:08	03/21/23 19:03	

RL

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MDL Unit

ug/L

Prepared

03/20/23 12:45

Result Qualifier

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Analyzed

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-13

Matrix: Water

Client Sample ID: AF56434 Date Collected: 02/27/23 15:44

Mercury

Method: SW846 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:32	
Method: SW846 6010D - Metals (ICP) - T	otal Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	62900		500		ug/L		03/20/23 09:08	03/21/23 23:19	
Iron	3180		100		ug/L		03/20/23 09:08	03/21/23 23:19	
Magnesium	1950		500		ug/L		03/20/23 09:08	03/21/23 23:19	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:19	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 23:19	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:19	
Sodium	4810		2000		ug/L		03/20/23 09:08	03/21/23 23:19	
Mathada CN04C COOOD Matala (ICD/MC	\ T-4-1	Dagawanahla							
Method: SW846 6020B - Metals (ICP/MS Analyte		Recoverable Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	1430		100		ug/L		03/20/23 09:08	03/21/23 19:07	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:07	
Barium	41.2		5.00		ug/L		03/20/23 09:08	03/21/23 19:07	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:07	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:07	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	
Cobalt	2.15		0.500		ug/L		03/20/23 09:08	03/21/23 19:07	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:07	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:07	
MICKEI	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:07	
			1.00		ug/L		03/20/23 09:08	03/21/23 19:07	
Silver	1.00	U			-				
Silver Thallium	1.00 <b>264</b>	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:07	
Silver Thallium <b>Zinc</b>	264	Ü	20.0		•				
Silver Thallium	264 52.9	U			ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 19:07 03/21/23 19:07	

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03/20/23 12:45

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56433

ple ID: AF56433 Lab Sample ID: 680-232196-14

Matrix: Water

Job ID: 680-232196-1

Date Collected: 02/28/23 12:58 Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - N	fletals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:37	
Method: SW846 6010D - N	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	433000		500		ug/L		03/20/23 09:08	03/21/23 23:23	
Iron	17100		100		ug/L		03/20/23 09:08	03/21/23 23:23	
Magnesium	12200		500		ug/L		03/20/23 09:08	03/21/23 23:23	•
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:23	1
Potassium	5480		1000		ug/L		03/20/23 09:08	03/21/23 23:23	•
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:23	•
Sodium	10300		2000		ug/L		03/20/23 09:08	03/21/23 23:23	
Method: SW846 6020B - N	Metals (ICP/MS) - Total	Recoverable	•						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	219		100		ug/L		03/20/23 09:08	03/21/23 19:11	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Barium	51.1		5.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:11	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:11	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:11	•
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:11	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:11	
Manganese	1240		5.00		ug/L		03/20/23 09:08	03/21/23 19:11	
Method: SW846 7470A - N	Mercury (CVAA)								
Analyte	, ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								<del></del>	

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03/20/23 12:45

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56435** Lab Sample ID: 680-232196-15 Date Collected: 02/28/23 11:44

Matrix: Water

Mercury

Method: SW846 6010D - M	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:42	
Method: SW846 6010D - M	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20400		500		ug/L		03/20/23 09:08	03/21/23 23:26	
Iron	863		100		ug/L		03/20/23 09:08	03/21/23 23:26	
Magnesium	821		500		ug/L		03/20/23 09:08	03/21/23 23:26	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:26	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 23:26	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:26	
Sodium	3070		2000		ug/L		03/20/23 09:08	03/21/23 23:26	
Mathada CMO4C CO20D M	otala (ICD/MC) Tatal	Dagawanahi							
Method: SW846 6020B - M Analyte		Qualifier	e RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	3470		100		ug/L		03/20/23 09:08	03/21/23 19:15	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Arsenic	8.46		3.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Barium	29.9		5.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:15	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:15	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Cobalt	1.03		0.500		ug/L		03/20/23 09:08	03/21/23 19:15	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:15	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:15	
Manganese	24.2		5.00		ug/L		03/20/23 09:08	03/21/23 19:15	
Method: SW846 7470A - M	, ,				Unit	D			Dil Fa
Analyte	Recult	Qualifier	RL				Prepared	Analyzed	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-16

Matrix: Water

Client Sample ID: AF56436 Date Collected: 02/28/23 10:19

Mercury

Analyte	(ICP) Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:46	
Method: SW846 6010D - Metals (									
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Calcium	85500		500		ug/L		03/20/23 09:08	03/21/23 23:29	
Iron	1170		100		ug/L		03/20/23 09:08	03/21/23 23:29	
Magnesium	1970		500		ug/L		03/20/23 09:08	03/21/23 23:29	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:29	
Potassium	1460		1000		ug/L		03/20/23 09:08	03/21/23 23:29	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:29	
Sodium	4490		2000		ug/L		03/20/23 09:08	03/21/23 23:29	
Method: SW846 6020B - Metals ( Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
<u> </u>				MDL		D	<u>.</u>		
Aluminum	100		100		ug/L		03/20/23 09:08	03/21/23 19:19	
Antinoppy	E 00		E 00						
•	5.00	_	5.00		ug/L		03/20/23 09:08	03/21/23 19:19	
Arsenic	3.00	_	3.00		ug/L		03/20/23 09:08	03/21/23 19:19	
Arsenic Barium	3.00 <b>35.5</b>	U	3.00 5.00		ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19	
Arsenic <b>Barium</b> Beryllium	3.00 <b>35.5</b> 0.500	U	3.00 5.00 0.500		ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic <b>Barium</b> Beryllium Cadmium	3.00 35.5 0.500 0.500	U U	3.00 5.00 0.500 0.500		ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Antimony Arsenic <b>Barium</b> Beryllium Cadmium Chromium	3.00 <b>35.5</b> 0.500	U U	3.00 5.00 0.500		ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic <b>Barium</b> Beryllium Cadmium Chromium	3.00 35.5 0.500 0.500	U U U	3.00 5.00 0.500 0.500		ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic  Barium  Beryllium  Cadmium  Chromium  Cobalt	3.00 35.5 0.500 0.500 5.00	U U U U	3.00 5.00 0.500 0.500 5.00		ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic  Barium  Beryllium  Cadmium  Chromium  Cobalt  Copper	3.00 <b>35.5</b> 0.500 0.500 5.00	U U U U U	3.00 5.00 0.500 0.500 5.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic  Barium  Beryllium  Cadmium  Chromium  Cobalt  Copper	3.00 <b>35.5</b> 0.500 0.500 5.00 0.500 5.00	U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic  Barium  Beryllium  Cadmium  Chromium  Cobalt  Copper  Lead	3.00 35.5 0.500 0.500 5.00 0.500 5.00 2.50	U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50		ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic  Barium  Beryllium  Cadmium  Chromium  Cobalt  Copper  Lead  Nickel	3.00 35.5 0.500 0.500 5.00 5.00 2.50 5.00	U U U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	
Arsenic <b>Barium</b> Beryllium Cadmium	3.00 35.5 0.500 0.500 5.00 5.00 2.50 5.00 1.00	U U U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19 03/21/23 19:19	

0.200

ug/L

0.200 U

03/20/23 12:45

03/21/23 12:39

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56437 Lab Sample ID: 680-232196-17

Date Collected: 02/28/23 10:24 Matrix: Water

Date	Received:	03/17/23	10:30

Analyte

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 15:51	
Method: SW846 6010D - Me	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	92300		500		ug/L		03/20/23 09:08	03/21/23 23:32	
Iron	1310		100		ug/L		03/20/23 09:08	03/21/23 23:32	
Magnesium	1710		500		ug/L		03/20/23 09:08	03/21/23 23:32	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:32	
Potassium	1230		1000		ug/L		03/20/23 09:08	03/21/23 23:32	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:32	
Sodium	3600		2000		ug/L		03/20/23 09:08	03/21/23 23:32	
Analyte Aluminum	100	Qualifier U	RL	WIDE	Unit ug/L	D	Prepared 03/20/23 09:08	Analyzed 03/21/23 19:31	Dil Fa
Method: SW846 6020B - Me	tale (ICD/MS) Total	Pagayarable							
		_			ug/L				
Antimony	5.00	_	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Barium	36.2		5.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Beryllium	0.500	_	0.500		ug/L		03/20/23 09:08	03/21/23 19:31	
Cadmium	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:31	
Chromium	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Cobalt	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:31	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:31	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:31	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:31	
Manganese	88.0		5.00		ug/L		03/20/23 09:08	03/21/23 19:31	

RL

0.200

MDL Unit

ug/L

Prepared

03/20/23 13:40

Result Qualifier

0.200 U

Dil Fac

Analyzed

03/21/23 11:35

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56438** Lab Sample ID: 680-232196-18 Date Collected: 02/28/23 14:31

Matrix: Water

Mercury

Method: SW846 6010D - Metals (ICP)									
Analyte F	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:13	03/24/23 16:10	
Method: SW846 6010D - Metals (ICP) - Tota	al Red	coverable							
Analyte F	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium 28	87000		500		ug/L		03/20/23 09:08	03/21/23 23:36	
Iron	1800		100		ug/L		03/20/23 09:08	03/21/23 23:36	
Magnesium 2	28000		500		ug/L		03/20/23 09:08	03/21/23 23:36	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:36	
Potassium	6740		1000		ug/L		03/20/23 09:08	03/21/23 23:36	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:36	
Sodium 1	17500		2000		ug/L		03/20/23 09:08	03/21/23 23:36	
Method: SW846 6020B - Metals (ICP/MS) -	Total	Pacovarable							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:35	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Barium	34.9		5.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:35	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:35	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:35	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:35	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:35	
2.110			5.00		ug/L		03/20/23 09:08	03/21/23 19:35	
Manganese	495		5.00		ug/L		03/20/23 09.00	03/21/23 19.33	
	495		5.00		ug/L		03/20/23 09.00	03/21/23 19.33	

0.200

ug/L

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-19 Client Sample ID: AF56409 Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D -	Metals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	104		50.0		ug/L		03/23/23 14:13	03/24/23 16:14	
Method: SW846 6010D -	Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	1150000		5000		ug/L		03/20/23 09:08	03/22/23 11:50	1
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 23:39	
Magnesium	31700		500		ug/L		03/20/23 09:08	03/21/23 23:39	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:39	
Potassium	15800		1000		ug/L		03/20/23 09:08	03/21/23 23:39	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:39	
Sodium	144000		2000		ug/L		03/20/23 09:08	03/21/23 23:39	
M. (I I. O)MO 40 0000D									
Method: SW846 6020B -   Analyte	,	Recoverable   Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100		100		ug/L		03/20/23 09:08	03/21/23 19:39	
Antimony	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Arsenic	13.8		3.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Barium	57.7		5.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:39	
Cadmium	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:39	
Chromium	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Cobalt	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:39	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Lead	2.50		2.50		ug/L		03/20/23 09:08	03/21/23 19:39	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:39	
Zinc	20.0		20.0		ug/L		03/20/23 09:08	03/21/23 19:39	
Manganese	6.96		5.00		ug/L		03/20/23 09:08	03/21/23 19:39	
	0.00				<b>3</b> · –				
Method: SW846 7470A -	Mercury (CVAA)								
Analyte	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa

0.200

ug/L

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-20 **Client Sample ID: AF56410** Date Collected: 03/06/23 12:19

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - I	Metals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	128		50.0		ug/L		03/23/23 14:13	03/24/23 16:19	
Method: SW846 6010D - I	Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	1130000		5000		ug/L		03/20/23 09:08	03/22/23 11:53	1
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 23:42	
Magnesium	30600		500		ug/L		03/20/23 09:08	03/21/23 23:42	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 23:42	
Potassium	15400		1000		ug/L		03/20/23 09:08	03/21/23 23:42	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 23:42	
Sodium	138000		2000		ug/L		03/20/23 09:08	03/21/23 23:42	
	M (   (IOD(MO) T (								
Method: SW846 6020B - I Analyte	` '	Recoverable Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100		100		ug/L	=	03/20/23 09:08	03/21/23 19:43	
Antimony	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Arsenic	12.6		3.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Barium	52.0		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:43	
Cadmium	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:43	
Chromium	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Cobalt	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 19:43	
Copper	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Lead	2.50		2.50		ug/L		03/20/23 09:08	03/21/23 19:43	
Nickel	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Silver	1.00		1.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Thallium	1.00		1.00		ug/L		03/20/23 09:08	03/21/23 19:43	
Zinc	20.0		20.0		ug/L		03/20/23 09:08	03/21/23 19:43	
Manganese	7.61	-	5.00		ug/L		03/20/23 09:08	03/21/23 19:43	
nanganese	7.01		0.00		~9/L		33,20,20 00.00	33/2 1/20 13.40	
Method: SW846 7470A - I	Mercury (CVAA)								
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa

0.200

ug/L

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56411 Date Collected: 03/06/23 11:08

Lab Sample ID: 680-232196-21

Matrix: Water

Date	Received:	03/17/23	10:30

Thallium

Manganese

Zinc

Method: SW846 6010D - Metals (ICP)									
Analyte F	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	77.1		50.0		ug/L		03/23/23 14:15	03/24/23 16:42	1
Method: SW846 6010D - Metals (ICP) - Tota	ıl Red	overable							
Analyte F	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium 79	6000		5000		ug/L		03/20/23 09:08	03/22/23 11:56	10
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:50	1
Magnesium 4	0800		500		ug/L		03/20/23 09:08	03/21/23 20:50	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 20:50	1
Potassium	3000		1000		ug/L		03/20/23 09:08	03/21/23 20:50	1
Selenium	20.0	U F2 F1	20.0		ug/L		03/20/23 09:08	03/21/23 20:50	1
Carallinua 44	4000		2000		ug/L		03/20/23 09:08	03/21/23 20:50	1
Sodium	1000		2000		ug/L		03/20/23 03.00	00/2 1/20 20:00	•
Sodium 12 Method: SW846 6020B - Metals (ICP/MS) -		Recoverable			ug/L		03/20/23 03.00	00/2 1/20 20:00	
Method: SW846 6020B - Metals (ICP/MS) -	Total	Recoverable Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 6020B - Metals (ICP/MS) -	Total	Qualifier	•	MDL	J	<u>D</u>			Dil Fac
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum	Total esult	Qualifier U	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 6020B - Metals (ICP/MS) - Analyte Aluminum Antimony	Total esult	Qualifier U	RL	MDL	Unit ug/L	<u>D</u>	Prepared 03/20/23 09:08	Analyzed 03/21/23 20:02	
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic	Total esult 100 5.00	Qualifier U	RL 100 5.00	MDL	Unit ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08	Analyzed 03/21/23 20:02 03/21/23 20:02	1
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic Barium	Total esult 100 5.00 8.18	Qualifier U	RL 100 5.00 3.00	MDL	Unit ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02	1 1
Method: SW846 6020B - Metals (ICP/MS) - Analyte Aluminum Antimony Arsenic Barium Beryllium	Total esult 100 5.00 8.18 95.4	Qualifier U U	RL 100 5.00 3.00 5.00	MDL	Unit ug/L ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02	1 1
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic Barium Beryllium Cadmium	Total esult 100 5.00 8.18 95.4 0.500	Qualifier U U U	RL 100 5.00 3.00 5.00 0.500	MDL	Unit ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02	1 1 1 1 1
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium	Total esult 100 5.00 8.18 95.4 0.500 0.500	Qualifier U U U U U U	RL 100 5.00 3.00 5.00 0.500	MDL	Unit ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02	1 1 1 1 1
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt	Total esult 100 5.00 8.18 95.4 0.500 0.500 5.00	Qualifier U U U U U U U U	RL 100 5.00 3.00 5.00 0.500 0.500 5.00	MDL	Unit ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02	1 1 1 1 1 1
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	Total esult 100 5.00 8.18 95.4 0.500 0.500 5.00 0.500	Qualifier U U U U U U U U U U U	RL 100 5.00 3.00 5.00 0.500 0.500 5.00 0.500	MDL	Unit ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02  03/21/23 20:02	1 1 1 1 1 1
Method: SW846 6020B - Metals (ICP/MS) - Analyte F Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium	Total esult 100 5.00 8.18 95.4 0.500 0.500 5.00 0.500 5.00	Qualifier U U U U U U U U U U U	RL 100 5.00 3.00 5.00 0.500 0.500 5.00 0.500 5.00	MDL	Unit ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	Analyzed 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02 03/21/23 20:02	1 1 1 1 1 1 1 1

Method: SW846 7470A - Mercury (0	CVAA)								
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200	u	g/L		03/20/23 13:40	03/21/23 10:38	1

1.00

20.0

5.00

ug/L

ug/L

ug/L

03/20/23 09:08

03/20/23 09:08

03/20/23 09:08

03/21/23 20:02

03/21/23 20:02

03/21/23 20:02

1.00 UF1

199 F1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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Lab Sample ID: 680-232196-22

Matrix: Water

Client Sample ID: AF56412 Date Collected: 03/06/23 15:15

Mercury

Method: SW846 6010D - M	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	51.5		50.0		ug/L		03/23/23 14:15	03/24/23 16:51	
Method: SW846 6010D - M	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	701000		500		ug/L		03/20/23 09:08	03/21/23 21:00	
Iron	14700		100		ug/L		03/20/23 09:08	03/21/23 21:00	
Magnesium	30200		500		ug/L		03/20/23 09:08	03/21/23 21:00	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:00	
Potassium	7240		1000		ug/L		03/20/23 09:08	03/21/23 21:00	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:00	
Sodium	108000		2000		ug/L		03/20/23 09:08	03/21/23 21:00	
Mothod: CW046 6020B M	otale (ICD/MC) Total	Doogyanahla							
Method: SW846 6020B - M Analyte	` ,	Qualifier	; RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:14	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Arsenic	4.94		3.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Barium	165		5.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:14	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:14	
Chromium	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:14	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Lead	2.50		2.50		ug/L		03/20/23 09:08	03/21/23 20:14	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:14	
Manganese	355		5.00		ug/L		03/20/23 09:08	03/21/23 20:14	
Method: SW846 7470A - M	• • •	0 115	RL	MDL		D	Prepared	Analyzed	Dil Fa
Analyte	Pacult	Qualifier							

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56413** Lab Sample ID: 680-232196-23

Matrix: Water

Date Collected: 03/06/23 13:41 Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - N	Metals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:23	
Method: SW846 6010D - N	Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	163000		500		ug/L		03/20/23 09:08	03/21/23 21:03	
Iron	10100		100		ug/L		03/20/23 09:08	03/21/23 21:03	
Magnesium	11200		500		ug/L		03/20/23 09:08	03/21/23 21:03	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:03	
Potassium	5010		1000		ug/L		03/20/23 09:08	03/21/23 21:03	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:03	
Sodium	72500		2000		ug/L		03/20/23 09:08	03/21/23 21:03	
Mothod, SW046 6020D	Matala (ICD/MC) Tatal	l Doggvershie							
Method: SW846 6020B - I Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:18	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Barium	88.7		5.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:18	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:18	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Cobalt	0.870		0.500		ug/L		03/20/23 09:08	03/21/23 20:18	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:18	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:18	
Manganese	235		5.00		ug/L		03/20/23 09:08	03/21/23 20:18	
Mathad: CW/046 74704	Maraum (C) (A A)								
Method: SW846 7470A - N Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
						<b>-</b> _		7111017200	

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03/20/23 12:45

03/21/23 13:46

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56430

Lab Sample ID: 680-232196-24

Matrix: Water

Date Collected: 03/06/23 10:10 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:28	1
Method: SW846 6010D - ∣	Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	446000		500		ug/L		03/20/23 09:08	03/21/23 21:06	1
Iron	33300		100		ug/L		03/20/23 09:08	03/21/23 21:06	1
Magnesium	72500		500		ug/L		03/20/23 09:08	03/21/23 21:06	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:06	1
Potassium	6540		1000		ug/L		03/20/23 09:08	03/21/23 21:06	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:06	1
Sodium	87200		2000		ug/L		03/20/23 09:08	03/21/23 21:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:22	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Barium	36.3		5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:22	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:22	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Cobalt	6.51		0.500		ug/L		03/20/23 09:08	03/21/23 20:22	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:22	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:22	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:22	1
Manganese	3770		5.00		ug/L		03/20/23 09:08	03/21/23 20:22	1

Method: SW846 7470A - Mercury (CVAA)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 14:10	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56406

Lab Sample ID: 680-232196-25 Date Collected: 03/09/23 10:29

Matrix: Water

Mercury

Method: SW846 6010D - M	letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:33	
Method: SW846 6010D - M	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	203000		500		ug/L		03/20/23 09:08	03/21/23 21:09	
Iron	1450		100		ug/L		03/20/23 09:08	03/21/23 21:09	
Magnesium	18100		500		ug/L		03/20/23 09:08	03/21/23 21:09	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:09	
Potassium	4990		1000		ug/L		03/20/23 09:08	03/21/23 21:09	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:09	
Sodium	45500		2000		ug/L		03/20/23 09:08	03/21/23 21:09	
Method: SW846 6020B - M	lotals (ICD/MS) - Total	Pecoverable							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	1940		100		ug/L		03/20/23 09:08	03/21/23 20:26	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Barium	36.4		5.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:26	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:26	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Cobalt	1.84		0.500		ug/L		03/20/23 09:08	03/21/23 20:26	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:26	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Zinc	45.6		20.0		ug/L		03/20/23 09:08	03/21/23 20:26	
Manganese	183		5.00		ug/L		03/20/23 09:08	03/21/23 20:26	
Method: SW846 7470A - M	lercury (CVAA)								
Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
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03/20/23 12:45

03/21/23 13:13

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-26

Matrix: Water

Client Sample ID: AF56407 Date Collected: 03/09/23 10:34

Mercury

Method: SW846 6010D - Metals (ICI	,					_			
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Lithium -	100	U	100		ug/L		03/23/23 14:15	03/24/23 17:38	
Method: SW846 6010D - Metals (ICI	P) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	207000		500		ug/L		03/20/23 09:08	03/21/23 21:13	
Iron	1440		100		ug/L		03/20/23 09:08	03/21/23 21:13	
Magnesium	18200		500		ug/L		03/20/23 09:08	03/21/23 21:13	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:13	
Potassium	5150		1000		ug/L		03/20/23 09:08	03/21/23 21:13	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:13	
Sodium	46200		2000		ug/L		03/20/23 09:08	03/21/23 21:13	
Method: SW846 6020B - Metals (ICI Analyte	,	Recoverable Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	2090		100		ug/L		03/20/23 09:08	03/21/23 20:30	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Barium	36.9		5.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:30	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:30	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Cobalt	1.65		0.500		ug/L		03/20/23 09:08	03/21/23 20:30	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:30	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Olivei	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:30	
					ug/L		03/20/23 09:08	03/21/23 20:30	
Thallium	29.1		20.0		ug/ =		03/20/23 03.00	00/21/20 20:00	
Thallium Zinc Manganese	29.1 207		20.0 5.00		ug/L		03/20/23 09:08	03/21/23 20:30	
Thallium <b>Zinc</b>	207				-				

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56418

Lab Sample ID: 680-232196-27

Matrix: Water

Date Collected: 03/09/23 12:07 Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - M	letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	76.7		50.0		ug/L		03/23/23 14:15	03/24/23 17:42	
Method: SW846 6010D - N	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	94400		500		ug/L		03/20/23 09:08	03/21/23 21:22	
Iron	840		100		ug/L		03/20/23 09:08	03/21/23 21:22	
Magnesium	7510		500		ug/L		03/20/23 09:08	03/21/23 21:22	
Molybdenum	90.2		10.0		ug/L		03/20/23 09:08	03/21/23 21:22	
Potassium	7420		1000		ug/L		03/20/23 09:08	03/21/23 21:22	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:22	
Sodium	25200		2000		ug/L		03/20/23 09:08	03/21/23 21:22	
Method: SW846 6020B - N	Metals (ICP/MS) - Total	Recoverable							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	134		100		ug/L		03/20/23 09:08	03/21/23 20:41	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Arsenic	249		3.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Barium	127		5.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:41	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:41	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Cobalt	2.17		0.500		ug/L		03/20/23 09:08	03/21/23 20:41	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:41	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:41	
Manganese	113		5.00		ug/L		03/20/23 09:08	03/21/23 20:41	
Method: SW846 7470A - N	Mercury (CVAA)								
Analyte	• ' '	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56422

Lab Sample ID: 680-232196-28 Date Collected: 03/09/23 13:19

Matrix: Water

Mercury

	als (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 17:47	
Method: SW846 6010D - Met	als (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	250000		500		ug/L		03/20/23 09:08	03/21/23 21:26	
Iron	15600		100		ug/L		03/20/23 09:08	03/21/23 21:26	
Magnesium	9000		500		ug/L		03/20/23 09:08	03/21/23 21:26	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:26	
Potassium	3920		1000		ug/L		03/20/23 09:08	03/21/23 21:26	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:26	
Sodium	74400		2000		ug/L		03/20/23 09:08	03/21/23 21:26	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 6020B - Met	als (ICP/MS) - Total	Recoverable	•						
Aluminum	100		100		ug/L		03/20/23 09:08	03/21/23 20:45	
A 4!	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:45	
Antimony									
•	8.53		3.00		ug/L		03/20/23 09:08	03/21/23 20:45	
·	8.53 121				ug/L ug/L		03/20/23 09:08 03/20/23 09:08		
Arsenic	8.53	U	3.00 5.00 0.500					03/21/23 20:45	
<b>Arsenic</b> <b>Barium</b> Beryllium	8.53 121		3.00 5.00		ug/L		03/20/23 09:08	03/21/23 20:45 03/21/23 20:45	
<b>Arsenic</b> <b>Barium</b> Beryllium Cadmium	8.53 121 0.500	U	3.00 5.00 0.500		ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium	8.53 121 0.500 0.500	U	3.00 5.00 0.500 0.500		ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt	8.53 121 0.500 0.500 5.00	U U	3.00 5.00 0.500 0.500 5.00		ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	8.53 121 0.500 0.500 5.00 0.500	U U U	3.00 5.00 0.500 0.500 5.00		ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	8.53 121 0.500 0.500 5.00 0.500 5.00	U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Nickel	8.53 121 0.500 0.500 5.00 0.500 5.00 2.50	U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Nickel	8.53 121 0.500 0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Nickel Silver Thallium	8.53 121 0.500 0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45 03/21/23 20:45	
	8.53 121 0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00	U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45	
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Nickel Silver Thallium	8.53 121 0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00 37.7 272	U U U U U U	3.00 5.00 0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00 20.0		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 20:45 03/21/23 20:45	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56419

Date Collected: 03/07/23 14:51 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232196-29

Matrix: Water

Method: SW846 6010D - N	/letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	234		50.0		ug/L		03/23/23 14:15	03/24/23 17:52	1
- Method: SW846 6010D - N	/letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	601000		500		ug/L		03/20/23 09:08	03/21/23 21:29	1
Iron	19700		100		ug/L		03/20/23 09:08	03/21/23 21:29	1
Magnesium	88700		500		ug/L		03/20/23 09:08	03/21/23 21:29	1
Molybdenum	94.7		10.0		ug/L		03/20/23 09:08	03/21/23 21:29	1
Potassium	22200		1000		ug/L		03/20/23 09:08	03/21/23 21:29	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:29	1
Sodium	44900		2000		ug/L		03/20/23 09:08	03/21/23 21:29	1
- Method: SW846 6020B - N	/letals (ICP/MS) - Total	Recoverable	<b>)</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	672		100		ug/L		03/20/23 09:08	03/21/23 20:49	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Arsenic	474		3.00		ug/L		03/20/23 09:08	03/21/23 20:49	1
Rarium	83.0		5.00		ua/l		03/20/23 09:08	03/21/23 20:49	

83.9	5.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
0.500 U	0.500	ug/L	03/20/23 09:08	03/21/23 20:49	1
0.500 U	0.500	ug/L	03/20/23 09:08	03/21/23 20:49	1
5.00 U	5.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
1.29	0.500	ug/L	03/20/23 09:08	03/21/23 20:49	1
5.00 U	5.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
2.50 U	2.50	ug/L	03/20/23 09:08	03/21/23 20:49	1
5.00 U	5.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
1.00 U	1.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
1.00 U	1.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
24.2	20.0	ug/L	03/20/23 09:08	03/21/23 20:49	1
1020	5.00	ug/L	03/20/23 09:08	03/21/23 20:49	1
	0.500 U 0.500 U 5.00 U 1.29 5.00 U 2.50 U 5.00 U 1.00 U 1.00 U 2.4.2	0.500 U 0.500 0.500 U 0.500 5.00 U 5.00 1.29 0.500 5.00 U 5.00 2.50 U 2.50 5.00 U 5.00 1.00 U 1.00 1.00 U 1.00 24.2 20.0	0.500 U 0.500 ug/L 0.500 U 0.500 ug/L 5.00 U 5.00 ug/L 1.29 0.500 ug/L 5.00 U 5.00 ug/L 5.00 U 5.00 ug/L 2.50 U 2.50 ug/L 5.00 U 5.00 ug/L 1.00 U 1.00 ug/L 1.00 U 1.00 ug/L 2.4.2 20.0 ug/L	0.500       U       0.500       ug/L       03/20/23 09:08         0.500       U       0.500       ug/L       03/20/23 09:08         5.00       U       5.00       ug/L       03/20/23 09:08         1.29       0.500       ug/L       03/20/23 09:08         5.00       U       5.00       ug/L       03/20/23 09:08         2.50       U       2.50       ug/L       03/20/23 09:08         5.00       U       5.00       ug/L       03/20/23 09:08         1.00       U       1.00       ug/L       03/20/23 09:08         1.00       U       1.00       ug/L       03/20/23 09:08         24.2       20.0       ug/L       03/20/23 09:08	0.500       U       0.500       ug/L       03/20/23 09:08       03/21/23 20:49         0.500       U       0.500       ug/L       03/20/23 09:08       03/21/23 20:49         5.00       U       5.00       ug/L       03/20/23 09:08       03/21/23 20:49         1.29       0.500       ug/L       03/20/23 09:08       03/21/23 20:49         5.00       U       5.00       ug/L       03/20/23 09:08       03/21/23 20:49         2.50       U       2.50       ug/L       03/20/23 09:08       03/21/23 20:49         5.00       U       5.00       ug/L       03/20/23 09:08       03/21/23 20:49         1.00       U       1.00       ug/L       03/20/23 09:08       03/21/23 20:49         1.00       U       1.00       ug/L       03/20/23 09:08       03/21/23 20:49         24.2       20.0       ug/L       03/20/23 09:08       03/21/23 20:49

Method: SW846 7470A - Mercury (CVAA)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:22	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56425

Lab Sample ID: 680-232196-30

Matrix: Water

Date Collected: 03/07/23 12:49 Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - N	/letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:10	
Method: SW846 6010D - N	/letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	68500		500		ug/L		03/20/23 09:08	03/21/23 21:32	
Iron	3190		100		ug/L		03/20/23 09:08	03/21/23 21:32	
Magnesium	2680		500		ug/L		03/20/23 09:08	03/21/23 21:32	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:32	
Potassium	2060		1000		ug/L		03/20/23 09:08	03/21/23 21:32	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:32	
Sodium	11100		2000		ug/L		03/20/23 09:08	03/21/23 21:32	
Method: SW846 6020B - N	Motals (ICD/MS) Total	Pacayarahla							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 20:53	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Barium	9.10		5.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:53	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:53	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:53	
Copper	30.7		5.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:53	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 20:53	
Manganese	90.8		5.00		ug/L		03/20/23 09:08	03/21/23 20:53	
Method: SW846 7470A - N	Mercury (CVAA)								
Analyte	• ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
-		<del></del>					<del></del>		

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03/20/23 13:40

03/21/23 11:05

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-31

Matrix: Water

**Client Sample ID: AF56426** Date Collected: 03/07/23 10:22

Mercury

Method: SW846 6010D - N	letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:15	
Method: SW846 6010D - N	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	20600		500		ug/L		03/20/23 09:08	03/21/23 21:35	
Iron	386		100		ug/L		03/20/23 09:08	03/21/23 21:35	
Magnesium	1730		500		ug/L		03/20/23 09:08	03/21/23 21:35	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:35	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 21:35	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:35	
Sodium	4370		2000		ug/L		03/20/23 09:08	03/21/23 21:35	
Method: SW846 6020B - N Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	164		100		ug/L	— <u> </u>	03/20/23 09:08	03/21/23 20:57	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Barium	34.6		5.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:57	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:57	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 20:57	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 20:57	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 20:57	
Zinc	32.7		20.0		ug/L		03/20/23 09:08	03/21/23 20:57	
Manganese	18.4		5.00		ug/L		03/20/23 09:08	03/21/23 20:57	
					-				
Method: SW846 7470A - N	,								
Analyte	Docult	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56427

Lab Sample ID: 680-232196-32 Date Collected: 03/07/23 10:27

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - M	letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:19	
Method: SW846 6010D - M	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	22400		500		ug/L		03/20/23 09:08	03/21/23 21:39	
Iron	392		100		ug/L		03/20/23 09:08	03/21/23 21:39	
Magnesium	1820		500		ug/L		03/20/23 09:08	03/21/23 21:39	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:39	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 21:39	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:39	
Sodium	4470		2000		ug/L		03/20/23 09:08	03/21/23 21:39	
Method: SW846 6020B - M	lotals (ICD/MS) Total	Pocovorable							
Analyte		Qualifier	, RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	178		100		ug/L		03/20/23 09:08	03/21/23 21:01	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Barium	34.5		5.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:01	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:01	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:01	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:01	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:01	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:01	
Manganese	19.9		5.00		ug/L		03/20/23 09:08	03/21/23 21:01	
- Method: SW846 7470A - M	lercury (CVAA)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

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03/20/23 13:40

03/21/23 10:35

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56408 Lab Sample

Lab Sample ID: 680-232196-33 Matrix: Water

Date Collected: 03/08/23 13:38 Date Received: 03/17/23 10:30

Method: SW846 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:24	1
_									

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	416000	500		ug/L		03/20/23 09:08	03/21/23 21:42	1
Iron	56000	100		ug/L		03/20/23 09:08	03/21/23 21:42	1
Magnesium	30400	500		ug/L		03/20/23 09:08	03/21/23 21:42	1
Molybdenum	10.0	U 10.0		ug/L		03/20/23 09:08	03/21/23 21:42	1
Potassium	2780	1000		ug/L		03/20/23 09:08	03/21/23 21:42	1
Selenium	20.0	U 20.0		ug/L		03/20/23 09:08	03/21/23 21:42	1
Sodium	127000	2000		ug/L		03/20/23 09:08	03/21/23 21:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:05	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Barium	305		5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:05	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:05	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Cobalt	0.555		0.500		ug/L		03/20/23 09:08	03/21/23 21:05	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:05	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:05	1
Zinc	136		20.0		ug/L		03/20/23 09:08	03/21/23 21:05	1
Manganese	694		5.00		ug/L		03/20/23 09:08	03/21/23 21:05	1

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1	0.200		ug/L		03/20/23 13:40	03/21/23 12:16	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56415

Date Collected: 03/08/23 15:13

Lab Sample ID: AF56415

Lab Sample ID: 680-232196-34 Matrix: Water

Date Received: 03/17/23 10:30

Method: SW846 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	202000		500		ug/L		03/20/23 09:08	03/21/23 21:45	1
Iron	8580		100		ug/L		03/20/23 09:08	03/21/23 21:45	1
Magnesium	19800		500		ug/L		03/20/23 09:08	03/21/23 21:45	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 21:45	1
Potassium	11800		1000		ug/L		03/20/23 09:08	03/21/23 21:45	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:45	1
Sodium	128000		2000		ug/L		03/20/23 09:08	03/21/23 21:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:09	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Barium	86.8		5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:09	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:09	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:09	1
Zinc	39.3		20.0		ug/L		03/20/23 09:08	03/21/23 21:09	1
Manganese	203		5.00		ug/L		03/20/23 09:08	03/21/23 21:09	1

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 12:45	03/21/23 13:43	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Client Sample ID: AF56416** 

Lab Sample ID: 680-232196-35 Date Collected: 03/08/23 10:09

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - N	/letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:34	
Method: SW846 6010D - N	/letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	260000		500		ug/L		03/20/23 09:08	03/21/23 21:48	
Iron	1570		100		ug/L		03/20/23 09:08	03/21/23 21:48	
Magnesium	38100		500		ug/L		03/20/23 09:08	03/21/23 21:48	
Molybdenum	18.0		10.0		ug/L		03/20/23 09:08	03/21/23 21:48	
Potassium	13800		1000		ug/L		03/20/23 09:08	03/21/23 21:48	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:48	
Sodium	69700		2000		ug/L		03/20/23 09:08	03/21/23 21:48	
Method: SW846 6020B - N	/letals (ICP/MS) - Total	Recoverable	1						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:13	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Arsenic	85.9		3.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Barium	44.4		5.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:13	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:13	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:13	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	
_ead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:13	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Zinc	413		20.0		ug/L		03/20/23 09:08	03/21/23 21:13	
<b>Vanganese</b>	82.2		5.00		ug/L		03/20/23 09:08	03/21/23 21:13	
Method: SW846 7470A - N	Mercury (CVAA)								
Analyte	• ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
								00/01/00 10 77	

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03/20/23 12:45

03/21/23 13:23

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56417

Lab Sample ID: 680-232196-36 Date Collected: 03/08/23 10:14

Matrix: Water

Mercury

Method: SW846 6010D - Metals (ICP)									
Analyte Re	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:38	
Method: SW846 6010D - Metals (ICP) - Total	l Red	coverable							
Analyte Re	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium 260	0000		500		ug/L		03/20/23 09:08	03/21/23 21:52	
Iron 1	1740		100		ug/L		03/20/23 09:08	03/21/23 21:52	
Magnesium 37	7600		500		ug/L		03/20/23 09:08	03/21/23 21:52	
Molybdenum	21.2		10.0		ug/L		03/20/23 09:08	03/21/23 21:52	
Potassium 13	3800		1000		ug/L		03/20/23 09:08	03/21/23 21:52	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:52	
Sodium 69	9400		2000		ug/L		03/20/23 09:08	03/21/23 21:52	
Method: SW846 6020B - Metals (ICP/MS) - T	[otal	Recoverable	1						
•		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:17	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Arsenic	85.8		3.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Barium	45.4		5.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Beryllium 0	.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:17	
Cadmium 0	.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:17	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Cobalt 0	.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:17	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:17	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Zinc	27.9		20.0		ug/L		03/20/23 09:08	03/21/23 21:17	
Manganese	84.4		5.00		ug/L		03/20/23 09:08	03/21/23 21:17	
Method: SW846 7470A - Mercury (CVAA)									

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-37 Client Sample ID: AF56429 Date Collected: 03/08/23 12:12

Matrix: Water

Date Received: 03/17/23 10:30

Mercury

Method: SW846 6010D - N	letals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:43	
Method: SW846 6010D - N	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	73100		500		ug/L		03/20/23 09:08	03/21/23 22:01	
Iron	94400		100		ug/L		03/20/23 09:08	03/21/23 22:01	
Magnesium	26000		500		ug/L		03/20/23 09:08	03/21/23 22:01	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:01	
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:01	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:01	
Sodium	82200		2000		ug/L		03/20/23 09:08	03/21/23 22:01	
Mathada CW04C C020D - N	Intele (ICD/MC) Total	Dagawanahla							
Method: SW846 6020B - N <sub>Analyte</sub>	, ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	2410	<u> </u>	100		ug/L		03/20/23 09:08	03/21/23 21:28	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Barium	258		5.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Beryllium	0.985		0.500		ug/L		03/20/23 09:08	03/21/23 21:28	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:28	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Cobalt	18.6		0.500		ug/L		03/20/23 09:08	03/21/23 21:28	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Lead	3.19		2.50		ug/L		03/20/23 09:08	03/21/23 21:28	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 21:28	
Manganese	1540		5.00		ug/L		03/20/23 09:08	03/21/23 21:28	
Method: SW846 7470A - M	,					_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56421

Lab Sample ID: 680-232196-38

Matrix: Water

Date Collected: 03/01/23 14:41 Date Received: 03/17/23 10:30

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:48	
Method: SW846 6010D - Metals (	ICP) - Total Re	coverable							
Analyte	· · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Calcium	114000		500		ug/L		03/20/23 09:08	03/21/23 22:05	
Iron	4430		100		ug/L		03/20/23 09:08	03/21/23 22:05	
Magnesium	16900		500		ug/L		03/20/23 09:08	03/21/23 22:05	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:05	
Potassium	10500		1000		ug/L		03/20/23 09:08	03/21/23 22:05	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:05	
Sodium	21200		2000		ug/L		03/20/23 09:08	03/21/23 22:05	
Method: SW846 6020B - Metals (	•	Recoverable Qualifier	RL	MDL	1114		D	A 1	Dil I
Analyte Aluminum	Result	Qualifier		WIDL	ug/L	D	Prepared 03/20/23 09:08	Analyzed 03/21/23 21:32	
Antimony	5.00		5.00		ug/L		03/20/23 09:08	03/21/23 21:32	
Arsenic	3.00		3.00		ug/L		03/20/23 09:08	03/21/23 21:32	
	37.8		5.00		ug/L		03/20/23 09:08	03/21/23 21:32	
					ug/L				
Barium Beryllium		П			ua/l		03/20/23 09:08		
Beryllium	0.500		0.500		ug/L		03/20/23 09:08	03/21/23 21:32	
Beryllium Cadmium	0.500 0.500	U	0.500 0.500		ug/L		03/20/23 09:08	03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium	0.500 0.500 5.00	U	0.500 0.500 5.00		ug/L ug/L		03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium Cobalt	0.500 0.500 5.00 0.500	U U U	0.500 0.500 5.00 0.500		ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium Cobalt Copper	0.500 0.500 5.00 0.500 5.00	บ บ บ	0.500 0.500 5.00 0.500 5.00		ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium Cobalt Copper Lead	0.500 0.500 5.00 0.500	U U U U	0.500 0.500 5.00 0.500		ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium Cobalt Copper Lead	0.500 0.500 5.00 0.500 5.00 2.50	U U U U U	0.500 0.500 5.00 0.500 5.00 2.50		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium Cobalt Copper Lead Jickel Silver	0.500 0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U	0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium	0.500 0.500 5.00 0.500 5.00 2.50 5.00	U U U U U U	0.500 0.500 5.00 0.500 5.00 2.50 5.00		ug/L ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	
Beryllium Cadmium Chromium Cobalt Copper Lead Jickel Bilver Thallium	0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00	U U U U U U	0.500 0.500 5.00 0.500 5.00 2.50 5.00 1.00		ug/L ug/L ug/L ug/L ug/L ug/L		03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08 03/20/23 09:08	03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32 03/21/23 21:32	

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03/20/23 12:45

03/21/23 12:26

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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Lab Sample ID: 680-232196-39

Matrix: Water

Client Sample ID: AF56428 Date Collected: 03/01/23 13:37

Date Received: 03/17/23 10:30

Method:	SW846	6010D -	Motals (	(ICP)

mothical director cores metale	(,								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 18:52	1

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	199000	500		ug/L		03/20/23 09:01	03/21/23 20:34	1
Iron	714	100		ug/L		03/20/23 09:01	03/21/23 20:34	1
Magnesium	15200	500		ug/L		03/20/23 09:01	03/21/23 20:34	1
Molybdenum	10.0	U 10.0		ug/L		03/20/23 09:01	03/21/23 20:34	1
Potassium	6130	1000		ug/L		03/20/23 09:01	03/21/23 20:34	1
Selenium	20.0	U 20.0		ug/L		03/20/23 09:01	03/21/23 20:34	1
Sodium	38200	2000		ug/L		03/20/23 09:01	03/21/23 20:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 17:45	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/22/23 09:19	1
Barium	8.73		5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/22/23 09:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:45	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 17:45	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/22/23 09:19	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 17:45	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/22/23 09:19	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 17:45	1
Manganese	59.2		5.00		ug/L		03/20/23 09:01	03/21/23 17:45	1

Method: SW846 7470A - Mercury (CVAA)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:39	1

2

4

6

8

10

11

13

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-40

Matrix: Water

Date Collected: 03/01/23 10:22 Date Received: 03/17/23 10:30

Client Sample ID: AF56439

Method: SW846 6010D - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:15	03/24/23 19:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	138000		500		ug/L		03/20/23 09:08	03/21/23 22:08	1
Iron	9540		100		ug/L		03/20/23 09:08	03/21/23 22:08	1
Magnesium	14600		500		ug/L		03/20/23 09:08	03/21/23 22:08	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:08	1
Potassium	7790		1000		ug/L		03/20/23 09:08	03/21/23 22:08	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:08	1
Sodium	38300		2000		ug/L		03/20/23 09:08	03/21/23 22:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1000		100		ug/L		03/20/23 09:08	03/21/23 21:36	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Arsenic	42.3		3.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Barium	104		5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:36	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:36	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Cobalt	6.88		0.500		ug/L		03/20/23 09:08	03/21/23 21:36	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:36	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:36	1
Zinc	67.1		20.0		ug/L		03/20/23 09:08	03/21/23 21:36	1
Manganese	167		5.00		ug/L		03/20/23 09:08	03/21/23 21:36	1

Method: SW846 7470A - Mercury (CVAA)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 13:40	03/21/23 11:15	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: SW846 7470A - Mercury (CVAA)

Result Qualifier

0.200 U

Analyte

Mercury

Job ID: 680-232196-1

Client Sample ID: AF56441

Lab Sample ID: 680-232196-41

Matrix: Water

Date Collected: 03/01/23 11:45 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	121		50.0		ug/L		03/23/23 14:17	03/24/23 19:24	
Method: SW846 6010D - N	Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	191000		500		ug/L		03/20/23 09:08	03/21/23 22:11	
Iron	5280		100		ug/L		03/20/23 09:08	03/21/23 22:11	
Magnesium	10900		500		ug/L		03/20/23 09:08	03/21/23 22:11	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:11	
Potassium	5500		1000		ug/L		03/20/23 09:08	03/21/23 22:11	
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:11	
Sodium	24400		2000		ug/L		03/20/23 09:08	03/21/23 22:11	
Method: SW846 6020B - N	Metals (ICP/MS) - Total	l Recoverable	9						
Analyte	· · · · · · · · · · · · · · · · · · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 21:40	
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Arsenic	182		3.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Barium	78.6		5.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:40	
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:40	
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 21:40	
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 21:40	
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 21:40	
Olivei		II	1.00		ug/L		03/20/23 09:08	03/21/23 21:40	
	1.00	J							
Thallium Zinc	1.00 20.0		20.0		ug/L		03/20/23 09:08	03/21/23 21:40	

RL

0.200

MDL Unit

ug/L

Prepared

03/20/23 13:40

Dil Fac

Analyzed

03/21/23 11:02

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-42

Matrix: Water

Client Sample ID: AF56414 Date Collected: 03/02/23 12:46

Mercury

Method: SW846 6010D - N	fletals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 19:34	
Method: SW846 6010D - N	letals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	495000		500		ug/L		03/20/23 13:39	03/21/23 10:48	
Iron	27800		100		ug/L		03/20/23 13:39	03/21/23 10:48	
Magnesium	49100		500		ug/L		03/20/23 13:39	03/21/23 10:48	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:48	
Potassium	6740		1000		ug/L		03/20/23 13:39	03/21/23 10:48	
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:48	
Sodium	101000		2000		ug/L		03/20/23 13:39	03/21/23 10:48	
Method: SW846 6020B - N	Motals (ICD/MS) - Total	Pecoverable							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:04	
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Barium	413		5.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:04	
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:04	
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:04	
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:04	
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:04	
Manganese	626		5.00		ug/L		03/20/23 13:39	03/21/23 22:04	
Method: SW846 7470A - M	lercury (CVAA)								
Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

0.200

ug/L

0.200 U

03/20/23 15:26

03/21/23 14:17

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Project/3ite: 123913/3ivi02.09.G01.1/3030

Lab Sample ID: 680-232196-43

Matrix: Water

Job ID: 680-232196-1

Date Collected: 03/02/23 10:56 Date Received: 03/17/23 10:30

Mercury

Client Sample ID: AF56423

Method: SW846 6010D - Me	etals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	104		50.0		ug/L		03/23/23 14:17	03/24/23 19:38	
Method: SW846 6010D - Me	etals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	429000		500		ug/L		03/20/23 13:39	03/21/23 10:58	
Iron	16600		100		ug/L		03/20/23 13:39	03/21/23 10:58	
Magnesium	52600		500		ug/L		03/20/23 13:39	03/21/23 10:58	
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:58	
Potassium	13400		1000		ug/L		03/20/23 13:39	03/21/23 10:58	•
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:58	•
Sodium	92700		2000		ug/L		03/20/23 13:39	03/21/23 10:58	
	tala (ICD/MC) Tatal	Daaassanahla							
Method: SW846 6020B - Me Analyte	• •	Qualifier	; RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:15	
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	
Arsenic	363		3.00		ug/L		03/20/23 13:39	03/21/23 22:15	
Barium	262		5.00		ug/L		03/20/23 13:39	03/21/23 22:15	,
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:15	
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:15	
Chromium	5.00		5.00		ug/L		03/20/23 13:39	03/21/23 22:15	,
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:15	
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	
Lead	2.50		2.50		ug/L		03/20/23 13:39	03/21/23 22:15	
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:15	
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:15	
Thallium	1.00		1.00		ug/L		03/20/23 13:39	03/21/23 22:15	
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:15	
Manganese	887		5.00		ug/L		03/20/23 13:39	03/21/23 22:15	
	•				3				
Method: SW846 7470A - Me	ercury (CVAA)								

0.200

ug/L

03/20/23 15:26

03/21/23 12:02

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Client Sample ID: AF56428

Lab Sample ID: 680-232196-44

Matrix: Water

Date Collected: 03/02/23 00:00 Date Received: 03/17/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	50.0	U	50.0		ug/L		03/23/23 14:17	03/24/23 20:11	1
Method: SW846 6010D - Met	als (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	102000		500		ug/L		03/20/23 13:39	03/21/23 11:01	1
Iron	89800		100		ug/L		03/20/23 13:39	03/21/23 11:01	1
Magnesium	23400		500		ug/L		03/20/23 13:39	03/21/23 11:01	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 11:01	1
Potassium	10800		1000		ug/L		03/20/23 13:39	03/21/23 11:01	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 11:01	1
Sodium	37100		2000		ug/L		03/20/23 13:39	03/21/23 11:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 22:19	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Arsenic	88.3		3.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Barium	123		5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:19	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 22:19	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Cobalt	0.630		0.500		ug/L		03/20/23 13:39	03/21/23 22:19	1
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 22:19	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 22:19	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 22:19	1
Manganese	362		5.00		ug/L		03/20/23 13:39	03/21/23 22:19	1

Method: SW846 7470A - Mercury (CVAA)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/20/23 15:26	03/21/23 14:14	1

Prep Batch: 604813

Prep Batch: 604813

Client Sample ID: AF56332

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 604813

Prep Type: Total/NA

Prep Batch: 604815

Prep Type: Total/NA

Prep Batch: 604815

Prep Type: Total/NA

Client Sample ID: AF56412

Client Sample ID: AF56412

Method:	6010D	- Metals	(ICP)
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Lab Sample ID: MB 160-604813/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 605060

мв мв

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Lithium 50.0 U 50.0 ug/L 03/23/23 14:13 03/24/23 13:41

Lab Sample ID: LCS 160-604813/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 605060

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lithium 100 103.0 ug/L 103 80 - 120

Lab Sample ID: 680-232196-3 MS Client Sample ID: AF56332 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 605060

**Prep Batch: 604813** Spike Sample Sample MS MS %Rec

Result Qualifier Added Result Qualifier Unit D %Rec Limits Lithium 50.0 Ū 100 101.3 ug/L 101 75 - 125

Lab Sample ID: 680-232196-3 MSD

Matrix: Water

Analysis Batch: 605060

Sample Sample Spike MSD MSD

%Rec RPD Result Qualifier Added Limit Analyte Result Qualifier Unit %Rec Limits RPD Lithium 50.0 U 100 106.2 106 75 - 125 20 ug/L

Lab Sample ID: MB 160-604815/1-A

Matrix: Water

Analysis Batch: 605060

MR MR

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 50.0 Lithium 50.0 U ug/L 03/23/23 14:15 03/24/23 16:33

Lab Sample ID: LCS 160-604815/2-A

Matrix: Water

Analysis Batch: 605060

Spike

LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Lithium 100 103.2 ug/L 103 80 - 120

Lab Sample ID: 680-232196-22 MS

Matrix: Water

Analysis Batch: 605060

Prep Batch: 604815 MS MS Sample Sample Spike %Rec Result Qualifier Result Qualifier Added Analyte Unit D %Rec Limits Lithium 51.5 100 160.3 109 75 - 125 ug/L

Lab Sample ID: 680-232196-22 MSD

Matrix: Water Prep Type: Total/NA Analysis Batch: 605060 Prep Batch: 604815 MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Lithium 51.5 100 167.3 ug/L 116 75 - 125

**Eurofins Savannah** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 604817

Prep Batch: 604817

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 160-604817/1-A

Matrix: Water

Analysis Batch: 605060

Analyte R

MB	MR							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
50.0	U	50.0		ua/l		03/23/23 14:17	03/24/23 19:15	

Lab Sample ID: LCS 160-604817/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Lithium

Analysis Batch: 605060

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lithium 100 104.4 ug/L 104 80 - 120

Lab Sample ID: 680-232196-43 MS Client Sample ID: AF56423 Matrix: Water Prep Type: Total/NA

Analysis Batch: 605060 Prep Batch: 604817 Spike MS MS %Rec Sample Sample

Result Qualifier Added Result Qualifier Unit %Rec Limits Lithium 104 100 75 - 125 215.8 ug/L 112

Lab Sample ID: 680-232196-43 MSD

Matrix: Water

Analysis Batch: 605060

Prep Batch: 604817 Spike MSD MSD %Rec RPD Sample Sample Result Qualifier Added Result Qualifier %Rec Limit Unit Limits

Analyte Lithium 104 100 206.4 103 75 - 125 20 ug/L

Lab Sample ID: MB 680-768608/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank Prep Type: Total Recoverable

Client Sample ID: AF56423

Prep Type: Total/NA

**Prep Batch: 768608** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1
Iron	100	U	100		ug/L		03/20/23 13:39	03/21/23 10:42	1
Magnesium	500	U	500		ug/L		03/20/23 13:39	03/21/23 10:42	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 13:39	03/21/23 10:42	1
Potassium	1000	U	1000		ug/L		03/20/23 13:39	03/21/23 10:42	1
Selenium	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 10:42	1
Sodium	2000	U	2000		ug/L		03/20/23 13:39	03/21/23 10:42	1

Lab Sample ID: LCS 680-768608/2-A Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768929 Prep Batch: 768608

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	5036		ug/L		101	80 - 120	
Iron	5000	5196		ug/L		104	80 - 120	
Magnesium	5010	5075		ug/L		101	80 - 120	
Molybdenum	100	101.3		ug/L		101	80 - 120	
Potassium	6970	7195		ug/L		103	80 - 120	
Selenium	100	91.14		ug/L		91	80 - 120	
Sodium	5050	4981		ug/L		99	80 - 120	

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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

Lab Sample ID: 680-232196-42 MS

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56414 Prep Type: Total Recoverable **Prep Batch: 768608** 

Allalysis Batoli. 100323									i icp bat	7 00000
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	495000		5000	465900	4	ug/L		-584	75 - 125	
Iron	27800		5000	30980	4	ug/L		65	75 - 125	
Magnesium	49100		5010	51080	4	ug/L		40	75 - 125	
Molybdenum	10.0	U	100	99.69		ug/L		100	75 <sub>-</sub> 125	
Potassium	6740		6970	13970		ug/L		104	75 - 125	
Selenium	20.0	U	100	99.11		ug/L		99	75 - 125	
Sodium	101000		5050	99940	4	ug/L		-27	75 - 125	

Lab Sample ID: 680-232196-42 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56414 Prep Type: Total Recoverable

Prep Batch: 768608

Alialysis Datell. 100323									i ieb i	Jaccii. 1	00000
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	495000		5000	479700	4	ug/L		-308	75 - 125	3	20
Iron	27800		5000	31600	4	ug/L		77	75 - 125	2	20
Magnesium	49100		5010	51880	4	ug/L		55	75 - 125	2	20
Molybdenum	10.0	U	100	99.88		ug/L		100	75 - 125	0	20
Potassium	6740		6970	14290		ug/L		108	75 - 125	2	20
Selenium	20.0	U	100	98.21		ug/L		98	75 - 125	1	20
Sodium	101000		5050	101500	4	ug/L		4	75 - 125	2	20

Lab Sample ID: MB 680-768857/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

Prep Batch: 768857

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/20/23 09:08	03/21/23 22:14	1
Iron	100	U	100		ug/L		03/20/23 09:08	03/21/23 22:14	1
Magnesium	500	U	500		ug/L		03/20/23 09:08	03/21/23 22:14	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:08	03/21/23 22:14	1
Potassium	1000	U	1000		ug/L		03/20/23 09:08	03/21/23 22:14	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 22:14	1
Sodium	2000	U	2000		ug/L		03/20/23 09:08	03/21/23 22:14	1

Lab Sample ID: LCS 680-768857/2-A Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768929

Prep Batch: 768857

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	5172		ug/L	_	103	80 - 120	
Iron	5000	5307		ug/L		106	80 - 120	
Magnesium	5010	5182		ug/L		103	80 - 120	
Molybdenum	100	101.0		ug/L		101	80 - 120	
Potassium	6970	7569		ug/L		109	80 - 120	
Selenium	100	95.33		ug/L		95	80 - 120	
Sodium	5050	5064		ug/L		100	80 - 120	

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Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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

Lab Sample ID: 680-232196-1 MS

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56394

Prep Type: Total Recoverable

Prep Batch: 768857

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit Calcium 10600 5000 15760 ug/L 104 75 - 125 Iron 3060 5000 8285 ug/L 105 75 - 125 5010 6188 Magnesium 1000 ug/L 104 75 - 125 Molybdenum 10.0 U 100 100.6 ug/L 101 75 - 125 1000 U 6970 7931 107 75 - 125 Potassium ug/L 100 94.05 Selenium 20.0 ug/L 94 75 - 125 10600 75 - 125 Sodium 5460 5050 ug/L 102

Lab Sample ID: 680-232196-1 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56394

Prep Type: Total Recoverable

Prep Batch: 768857

Sample Sample Spike MSD MSD RPD Analyte Qualifier Added Result Qualifier RPD Limit Result Unit D %Rec Limits 10600 5000 15550 Calcium ug/L 100 75 - 125 20

Iron 3060 5000 8180 ug/L 102 75 - 125 20 1000 5010 102 20 Magnesium 6135 ug/L 75 - 12599.59 Molybdenum 10.0 100 ug/L 100 75 - 125 20 6970 7836 105 20 Potassium 1000 U ug/L 75 - 125 100 89.89 75 - 125 Selenium 20.0 ug/L 90 20 Sodium 5460 5050 10460 ug/L 99 75 - 125 20

Lab Sample ID: MB 680-768858/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768858

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 500 03/20/23 09:08 03/21/23 20:43 Calcium 500 U ug/L Iron 100 U 100 ug/L 03/20/23 09:08 03/21/23 20:43 500 03/20/23 09:08 03/21/23 20:43 Magnesium 500 U ug/L Molybdenum 10.0 U 10.0 ug/L 03/20/23 09:08 03/21/23 20:43 Potassium 1000 U 1000 ug/L 03/20/23 09:08 03/21/23 20:43 Selenium 20.0 U 20.0 ug/L 03/20/23 09:08 03/21/23 20:43 Sodium 2000 U 2000 ug/L 03/20/23 09:08 03/21/23 20:43

Lab Sample ID: LCS 680-768858/2-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768858

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	5290		ug/L		106	80 - 120	
Iron	5000	5413		ug/L		108	80 - 120	
Magnesium	5010	5283		ug/L		105	80 - 120	
Molybdenum	100	104.8		ug/L		105	80 - 120	
Potassium	6970	7535		ug/L		108	80 - 120	
Selenium	100	92.88		ug/L		93	80 - 120	
Sodium	5050	5173		ug/L		103	80 - 120	

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rep Batch: 768858 c

Job ID: 680-232196-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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

Lab Sample ID: 680-232196-21 MS

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56411 Prep Type: Total Recoverable

Prep Batch: 768858

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	100	U	5000	5184		ug/L		102	75 - 125	
Magnesium	40800		5010	46170	4	ug/L		108	75 - 125	
Molybdenum	10.0	U	100	98.61		ug/L		99	75 - 125	
Potassium	13000		6970	20750		ug/L		111	75 - 125	
Selenium	20.0	U F2 F1	100	40.57	F1	ug/L		41	75 - 125	
Sodium	121000		5050	126600	4	ug/L		109	75 - 125	

Lab Sample ID: 680-232196-21 MS

Matrix: Water

Analysis Batch: 769167

Client Sample ID: AF56411 **Prep Type: Total Recoverable** 

**Prep Batch: 768858** 

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	796000		5000	822800	4	ug/L		536	75 - 125

Sample Sample

796000

Result Qualifier

Lab Sample ID: 680-232196-21 MSD

Matrix: Water

Analysis Batch: 768929

Client Sample ID: AF56411 **Prep Type: Total Recoverable** 

Prep Batch: 768858

Allalysis Dalcil. 100323									riepi	Daton. I	00030
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	100	U	5000	5335		ug/L		105	75 - 125	3	20
Magnesium	40800		5010	46540	4	ug/L		115	75 - 125	1	20
Molybdenum	10.0	U	100	102.3		ug/L		102	75 - 125	4	20
Potassium	13000		6970	21390		ug/L		120	75 - 125	3	20
Selenium	20.0	U F2 F1	100	51.00	F2 F1	ug/L		51	75 - 125	23	20
Sodium	121000		5050	127400	4	ug/L		125	75 - 125	1	20

Spike

Added

5000

MSD MSD

827000 4

Result Qualifier

Unit

ug/L

D

%Rec

620

Lab Sample ID: 680-232196-21 MSD

Matrix: Water

Analyte

Calcium

Analysis Batch: 769167

Client Sample ID: AF56411 **Prep Type: Total Recoverable** 

**Prep Batch: 768858** RPD %Rec Limits RPD Limit

Lab Sample ID: MB 680-768859/1-A

Matrix: Water

Analysis Batch: 768929

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

75 - 125

Prep Batch: 768859

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1
Iron	100	U	100		ug/L		03/20/23 09:01	03/21/23 19:06	1
Magnesium	500	U	500		ug/L		03/20/23 09:01	03/21/23 19:06	1
Molybdenum	10.0	U	10.0		ug/L		03/20/23 09:01	03/21/23 19:06	1
Potassium	1000	U	1000		ug/L		03/20/23 09:01	03/21/23 19:06	1
Selenium	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 19:06	1
Sodium	2000	U	2000		ug/L		03/20/23 09:01	03/21/23 19:06	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

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

Lab Sample ID: LCS 680-768859/2-A Client Sample ID: Lab Control Sample Matrix: Water Analysis Batch: 768929

Prep Type: Total Recoverable Prep Batch: 768859

Analysis batch. 700329							i ieb De	11011. 700033
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	5013		ug/L		100	80 - 120	
Iron	5000	5131		ug/L		103	80 - 120	
Magnesium	5010	5094		ug/L		102	80 - 120	
Molybdenum	100	100.7		ug/L		101	80 - 120	
Potassium	6970	7245		ug/L		104	80 - 120	
Selenium	100	95.19		ug/L		95	80 - 120	
Sodium	5050	5031		ug/L		100	80 - 120	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-768540/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 768945								Prep Batch:	768540
-	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:01	03/21/23 15:59	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:01	03/21/23 15:59	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:01	03/21/23 15:59	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:01	03/21/23 15:59	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:01	03/21/23 15:59	1
Manganese	5.00	U	5.00		ug/L		03/20/23 09:01	03/21/23 15:59	1

Lab Sample ID: LCS 680-768540/2-A Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768945							Prep Batch: 76	68540
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	5338		ug/L		107	80 - 120	
Antimony	50.0	51.80		ug/L		104	80 - 120	
Arsenic	100	103.7		ug/L		104	80 - 120	
Barium	100	102.1		ug/L		102	80 - 120	
Beryllium	50.0	54.66		ug/L		109	80 - 120	
Cadmium	50.0	51.98		ug/L		104	80 - 120	
Chromium	100	108.2		ug/L		108	80 - 120	
Cobalt	50.0	53.54		ug/L		107	80 - 120	
Copper	100	116.1		ug/L		116	80 - 120	
Lead	505	507.5		ug/L		101	80 - 120	
Nickel	100	105.2		ug/L		105	80 - 120	
Silver	50.0	54.86		ug/L		110	80 - 120	
Thallium	50.0	49.92		ug/L		100	80 - 120	

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Prep Batch: 768540

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-768540/2-A Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** Analysis Batch: 768945 Prep Batch: 768540

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Zinc	100	110.6		ug/L		111	80 - 120
Manganese	400	429.2		ug/L		107	80 - 120

Lab Sample ID: MB 680-768544/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 768945 **Prep Batch: 768544** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 17:57	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 17:57	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 17:57	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 17:57	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 17:57	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 17:57	1
Manganese	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 17:57	1

Lab Sample ID: MB 680-768544/1-A Client Sample ID: Method Blank Matrix: Water **Prep Type: Total Recoverable** Analysis Batch: 769014 **Prep Batch: 768544** 

MB MB Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared Beryllium 0.500 U 0.500 ug/L 03/20/23 09:08 03/22/23 09:23

Lab Sample ID: LCS 680-768544/2-A Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** 

						Prep Batch: 768	3544
Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
5000	4884		ug/L		98	80 - 120	
50.0	49.01		ug/L		98	80 - 120	
100	95.38		ug/L		95	80 - 120	
100	95.86		ug/L		96	80 - 120	
50.0	50.36		ug/L		101	80 - 120	
100	100.9		ug/L		101	80 - 120	
50.0	50.80		ug/L		102	80 - 120	
100	105.9		ug/L		106	80 - 120	
505	477.8		ug/L		95	80 - 120	
100	92.93		ug/L		93	80 - 120	
50.0	51.72		ug/L		103	80 - 120	
50.0	47.32		ug/L		95	80 - 120	
100	105.9		ug/L		106	80 - 120	
400	409.6		ug/L		102	80 - 120	
	Added 5000 50.0 100 100 50.0 100 50.0 100 50.0 100 505 100 50.0 100 50.0	Added         Result           5000         4884           50.0         49.01           100         95.38           100         95.86           50.0         50.36           100         100.9           50.0         50.80           100         105.9           505         477.8           100         92.93           50.0         51.72           50.0         47.32           100         105.9	Added         Result         Qualifier           5000         4884           50.0         49.01           100         95.38           100         95.86           50.0         50.36           100         100.9           50.0         50.80           100         105.9           505         477.8           100         92.93           50.0         51.72           50.0         47.32           100         105.9	Added         Result         Qualifier         Unit           5000         4884         ug/L           50.0         49.01         ug/L           100         95.38         ug/L           100         95.86         ug/L           50.0         50.36         ug/L           100         100.9         ug/L           50.0         50.80         ug/L           100         105.9         ug/L           505         477.8         ug/L           50.0         51.72         ug/L           50.0         47.32         ug/L           100         105.9         ug/L	Added         Result         Qualifier         Unit         D           5000         4884         ug/L         ug/L           50.0         49.01         ug/L         ug/L           100         95.38         ug/L         ug/L           50.0         50.36         ug/L         ug/L           100         100.9         ug/L         ug/L           50.0         50.80         ug/L         ug/L           505         477.8         ug/L         ug/L           50.0         51.72         ug/L         ug/L           50.0         47.32         ug/L         ug/L           100         105.9         ug/L         ug/L	Added         Result         Qualifier         Unit         D         %Rec           5000         4884         ug/L         98           50.0         49.01         ug/L         98           100         95.38         ug/L         95           100         95.86         ug/L         96           50.0         50.36         ug/L         101           100         100.9         ug/L         101           50.0         50.80         ug/L         102           100         105.9         ug/L         95           100         92.93         ug/L         93           50.0         51.72         ug/L         103           50.0         47.32         ug/L         95           100         105.9         ug/L         103	Spike         LCS         LCS         WRec           Added         Result         Qualifier         Unit         D         %Rec         Limits           5000         4884         ug/L         98         80 - 120           50.0         49.01         ug/L         98         80 - 120           100         95.38         ug/L         95         80 - 120           100         95.86         ug/L         96         80 - 120           50.0         50.36         ug/L         101         80 - 120           100         100.9         ug/L         101         80 - 120           50.0         50.80         ug/L         102         80 - 120           100         105.9         ug/L         106         80 - 120           505         477.8         ug/L         95         80 - 120           50.0         51.72         ug/L         103         80 - 120           50.0         47.32         ug/L         95         80 - 120           100         105.9         ug/L         106         80 - 120

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-768544/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Analysis Batch: 769014 **Prep Batch: 768544** Spike LCS LCS

Analyte Added Result Qualifier Unit %Rec Limits D Beryllium 50.0 56.61 ug/L 113 80 - 120

Lab Sample ID: 680-232196-1 MS Client Sample ID: AF56394 Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768945 **Prep Batch: 768544** 

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1280		5000	6366		ug/L		102	75 - 125	
5.00	U	50.0	51.68		ug/L		103	75 - 125	
5.88		100	108.0		ug/L		102	75 - 125	
76.0		100	176.8		ug/L		101	75 - 125	
0.500	U	50.0	50.40		ug/L		101	75 - 125	
5.00	U	100	102.8		ug/L		103	75 - 125	
0.705		50.0	51.99		ug/L		103	75 - 125	
5.00	U	100	108.0		ug/L		108	75 - 125	
2.50	U	505	489.2		ug/L		97	75 - 125	
5.00	U	100	98.15		ug/L		98	75 - 125	
1.00	U	50.0	52.85		ug/L		106	75 - 125	
1.00	U	50.0	48.51		ug/L		97	75 - 125	
24.9		100	132.5		ug/L		108	75 - 125	
27.1		400	434.5		ug/L		102	75 - 125	
	Result 1280 5.00 5.88 76.0 0.500 5.00 0.705 5.00 2.50 5.00 1.00 1.00 24.9	5.00 U 5.88 76.0 0.500 U 5.00 U 0.705 5.00 U 2.50 U 1.00 U 1.00 U 24.9	Result         Qualifier         Added           1280         5000           5.00         U         50.0           5.88         100           76.0         100           0.500         U         50.0           5.00         U         100           0.705         50.0         50.0           5.00         U         100           2.50         U         505           5.00         U         100           1.00         U         50.0           1.00         U         50.0           24.9         100	Result         Qualifier         Added         Result           1280         5000         6366           5.00         U         50.0         51.68           5.88         100         108.0           76.0         100         176.8           0.500         U         50.0         50.40           5.00         U         100         102.8           0.705         50.0         51.99           5.00         U         100         108.0           2.50         U         505         489.2           5.00         U         100         98.15           1.00         U         50.0         52.85           1.00         U         50.0         48.51           24.9         100         132.5	Result         Qualifier         Added         Result         Qualifier           1280         5000         6366           5.00         U         50.0         51.68           5.88         100         108.0           76.0         100         176.8           0.500         U         50.0         50.40           5.00         U         100         102.8           0.705         50.0         51.99           5.00         U         100         108.0           2.50         U         505         489.2           5.00         U         100         98.15           1.00         U         50.0         52.85           1.00         U         50.0         48.51           24.9         100         132.5	Result         Qualifier         Added         Result         Qualifier         Unit           1280         5000         6366         ug/L           5.00         U         50.0         51.68         ug/L           5.88         100         108.0         ug/L           76.0         100         176.8         ug/L           0.500         U         50.0         50.40         ug/L           5.00         U         100         102.8         ug/L           0.705         50.0         51.99         ug/L           5.00         U         100         108.0         ug/L           2.50         U         505         489.2         ug/L           5.00         U         100         98.15         ug/L           1.00         U         50.0         52.85         ug/L           1.00         U         50.0         48.51         ug/L           24.9         100         132.5         ug/L	Result         Qualifier         Added         Result         Qualifier         Unit         D           1280         5000         6366         ug/L         ug/L           5.00         U         50.0         51.68         ug/L           5.88         100         108.0         ug/L           76.0         100         176.8         ug/L           0.500         U         50.0         50.40         ug/L           5.00         U         100         102.8         ug/L           5.00         U         100         108.0         ug/L           5.00         U         100         108.0         ug/L           2.50         U         505         489.2         ug/L           5.00         U         100         98.15         ug/L           1.00         U         50.0         52.85         ug/L           1.00         U         50.0         48.51         ug/L           24.9         100         132.5         ug/L	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec           1280         5000         6366         ug/L         102           5.00         U         50.0         51.68         ug/L         103           5.88         100         108.0         ug/L         102           76.0         100         176.8         ug/L         101           0.500         U         50.0         50.40         ug/L         101           5.00         U         100         102.8         ug/L         103           0.705         50.0         51.99         ug/L         103           5.00         U         100         108.0         ug/L         108           2.50         U         505         489.2         ug/L         97           5.00         U         100         98.15         ug/L         98           1.00         U         50.0         52.85         ug/L         97           24.9         100         132.5         ug/L         108	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           1280         5000         6366         ug/L         102         75 - 125           5.00         U         50.0         51.68         ug/L         103         75 - 125           5.88         100         108.0         ug/L         102         75 - 125           76.0         100         176.8         ug/L         101         75 - 125           0.500         U         50.0         50.40         ug/L         101         75 - 125           5.00         U         100         102.8         ug/L         103         75 - 125           5.00         U         100         102.8         ug/L         103         75 - 125           5.00         U         100         108.0         ug/L         103         75 - 125           5.00         U         100         108.0         ug/L         97         75 - 125           5.00         U         505         489.2         ug/L         97         75 - 125           5.00         U         50.0         52.85         ug/L         98

Lab Sample ID: 680-232196-1 MS Client Sample ID: AF56394 Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 769014

Prep Batch: 768544 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Beryllium 0.500 U 50.0 56.69 113 75 - 125 ug/L

Lab Sample ID: 680-232196-1 MSD Client Sample ID: AF56394 Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768945 **Prep Batch: 768544** %Rec RPD Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier RPD Limit Unit %Rec Limits Aluminum 1280 5000 6254 20 100 75 - 125 2 ug/L Antimony 5.00 U 50.0 49.50 ug/L 99 75 - 125 20 5.88 100 108.9 ug/L 103 75 - 125 20 Arsenic Barium 76.0 100 172.6 ug/L 97 75 - 125 20 Cadmium 0.500 50.0 49.54 ug/L 99 75 - 125 20 100 Chromium 5.00 102.5 ug/L 102 75 - 125 20 Cobalt 0.705 50.0 51.45 ug/L 101 75 - 125 20 100 108.8 ug/L 109 75 - 125 20 Copper 5.00 U 505 485.5 96 75 - 125 20 Lead 2.50 U ug/L Nickel 98.23 98 75 - 125 5.00 U 100 ug/L 20 Silver 1.00 U 50.0 51.83 ug/L 104 75 - 125 20 Thallium 1 00 U 50.0 48.13 ug/L 96 75 - 125 20 Zinc 24.9 100 123.0 ug/L 98 75 - 125 20 400 432.3 101 Manganese 27.1 ug/L 75 - 125 20

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-232196-1 MSD Client Sample ID: AF56394 Matrix: Water Prep Type: Total Recoverable Analysis Batch: 769014 **Prep Batch: 768544** 

Sample Sample Spike MSD MSD RPD Result Qualifier Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Beryllium 0.500 U 50.0 56.09 ug/L 112 75 - 125 20

Lab Sample ID: MB 680-768552/1-A Client Sample ID: Method Blank Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 768945 Prep Batch: 768552

Allalysis Balcil. 100343								Frep Batch.	700332
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 09:08	03/21/23 19:54	1
Antimony	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Barium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:54	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:54	1
Chromium	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Cobalt	0.500	U	0.500		ug/L		03/20/23 09:08	03/21/23 19:54	1
Copper	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Lead	2.50	U	2.50		ug/L		03/20/23 09:08	03/21/23 19:54	1
Nickel	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Silver	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Thallium	1.00	U	1.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
Zinc	20.0	U	20.0		ug/L		03/20/23 09:08	03/21/23 19:54	1
Manganese	5.00	U	5.00		ug/L		03/20/23 09:08	03/21/23 19:54	1
_									

Lab Sample ID: LCS 680-768552/2-A Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** Matrix: Water Analysis Batch: 768945 **Prep Batch: 768552** 

Spike LCS LCS %Rec Analyte Added %Rec Limits Result Qualifier Unit D 5000 5381 108 80 - 120 Aluminum ug/L 50.0 106 Antimony 53.20 ug/L 80 - 120 100 109.8 80 - 120 Arsenic ug/L 110 Barium 100 104.9 ug/L 105 80 - 120 Beryllium 50.0 50.03 ug/L 100 80 - 120 Cadmium 50.0 54.49 ug/L 109 80 - 120 80 - 120 Chromium 100 107.2 ug/L 107 Cobalt 50.0 54.46 ug/L 109 80 - 120 100 111.4 111 80 - 120 Copper ug/L Lead 505 513.4 ug/L 102 80 - 120 Nickel 100 100.1 ug/L 100 80 - 120 Silver 50.0 54.03 ug/L 108 80 - 120 Thallium 50.0 51.46 ug/L 103 80 - 120 Zinc 100 103.8 104 80 - 120 ug/L 400 434.1 109 80 - 120 Manganese ug/L

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-232196-21 MS

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56411 Prep Type: Total Recoverable Prep Batch: 768552

Alialysis Datcil. 100343									i iep batt	CII. 100332
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	100	U	5000	5779		ug/L		116	75 - 125	
Antimony	5.00	U	50.0	55.90		ug/L		112	75 - 125	
Arsenic	8.18		100	120.5		ug/L		112	75 - 125	
Barium	95.4		100	211.5		ug/L		116	75 <sub>-</sub> 125	
Beryllium	0.500	U	50.0	55.57		ug/L		111	75 - 125	
Cadmium	0.500	U	50.0	53.63		ug/L		107	75 - 125	
Chromium	5.00	U	100	121.9		ug/L		122	75 - 125	
Cobalt	0.500	U	50.0	59.05		ug/L		118	75 - 125	
Copper	5.00	U	100	114.5		ug/L		114	75 - 125	
Lead	2.50	U	505	600.1		ug/L		119	75 - 125	
Nickel	5.00	U	100	110.8		ug/L		111	75 - 125	
Silver	1.00	U	50.0	53.16		ug/L		106	75 - 125	
Thallium	1.00	U F1	50.0	61.74		ug/L		123	75 - 125	
Zinc	199	F1	100	267.8	F1	ug/L		69	75 - 125	
Manganese	101		400	587.0		ug/L		122	75 <sub>-</sub> 125	

Lab Sample ID: 680-232196-21 MSD

Matrix: Water

Client Sample ID: AF56411 **Prep Type: Total Recoverable** 

Analysis Batch: 768945									Prep I	Batch: 7	68552
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	100	U	5000	5957		ug/L		119	75 - 125	3	20
Antimony	5.00	U	50.0	58.11		ug/L		116	75 - 125	4	20
Arsenic	8.18		100	126.6		ug/L		118	75 - 125	5	20
Barium	95.4		100	218.6		ug/L		123	75 - 125	3	20
Beryllium	0.500	U	50.0	58.13		ug/L		116	75 - 125	5	20
Cadmium	0.500	U	50.0	56.57		ug/L		113	75 - 125	5	20
Chromium	5.00	U	100	119.1		ug/L		119	75 - 125	2	20
Cobalt	0.500	U	50.0	59.36		ug/L		119	75 - 125	1	20
Copper	5.00	U	100	116.8		ug/L		117	75 - 125	2	20
Lead	2.50	U	505	608.8		ug/L		121	75 - 125	1	20
Nickel	5.00	U	100	111.7		ug/L		112	75 - 125	1	20
Silver	1.00	U	50.0	53.81		ug/L		108	75 - 125	1	20
Thallium	1.00	U F1	50.0	62.76	F1	ug/L		126	75 - 125	2	20
Zinc	199	F1	100	301.0		ug/L		102	75 - 125	12	20
Manganese	101		400	576.8		ug/L		119	75 - 125	2	20

Lab Sample ID: MB 680-768613/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 768613** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		03/20/23 13:39	03/21/23 21:56	1
Antimony	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Arsenic	3.00	U	3.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Barium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Beryllium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Cadmium	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Chromium	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1

Eurofins Savannah

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-768613/1-A

Matrix: Water

Analysis Batch: 768945

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

**Prep Batch: 768613** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.500	U	0.500		ug/L		03/20/23 13:39	03/21/23 21:56	1
Copper	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Lead	2.50	U	2.50		ug/L		03/20/23 13:39	03/21/23 21:56	1
Nickel	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Silver	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Thallium	1.00	U	1.00		ug/L		03/20/23 13:39	03/21/23 21:56	1
Zinc	20.0	U	20.0		ug/L		03/20/23 13:39	03/21/23 21:56	1
Manganese	5.00	U	5.00		ug/L		03/20/23 13:39	03/21/23 21:56	1

Lab Sample ID: LCS 680-768613/2-A Matrix: Water

Analysis Batch: 768945

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

**Prep Batch: 768613** 

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
5000	5081		ug/L		102	80 - 120	
50.0	50.30		ug/L		101	80 - 120	
100	96.86		ug/L		97	80 - 120	
100	96.16		ug/L		96	80 - 120	
50.0	49.35		ug/L		99	80 - 120	
50.0	49.86		ug/L		100	80 - 120	
100	98.60		ug/L		99	80 - 120	
50.0	50.99		ug/L		102	80 - 120	
100	100.7		ug/L		101	80 - 120	
505	475.9		ug/L		94	80 - 120	
100	96.51		ug/L		97	80 - 120	
50.0	49.14		ug/L		98	80 - 120	
50.0	47.31		ug/L		95	80 - 120	
100	101.1		ug/L		101	80 - 120	
400	400.6		ug/L		100	80 - 120	
	Added 5000 50.0 100 100 50.0 50.0 100 50.0 100 50.0 100 50.0 100 50.0 100 50.0 100 50.0	Added         Result           5000         5081           50.0         50.30           100         96.86           100         96.16           50.0         49.35           50.0         49.86           100         98.60           50.0         50.99           100         100.7           505         475.9           100         96.51           50.0         49.14           50.0         47.31           100         101.1	Added         Result         Qualifier           5000         5081         Qualifier           50.0         50.30         Qualifier           100         96.86         Qualifier           100         96.86         Qualifier           100         96.16         Qualifier           50.0         49.35         Qualifier           50.0         49.86         Qualifier           100         98.60         Qualifier           50.0         49.86         Qualifier           100         98.60         Qualifier           100         98.60         Qualifier           100         100.7         Qualifier           100         100.7	Added         Result         Qualifier         Unit           5000         5081         ug/L           50.0         50.30         ug/L           100         96.86         ug/L           100         96.16         ug/L           50.0         49.35         ug/L           50.0         49.86         ug/L           100         98.60         ug/L           50.0         50.99         ug/L           100         100.7         ug/L           505         475.9         ug/L           100         96.51         ug/L           50.0         49.14         ug/L           50.0         47.31         ug/L           100         101.1         ug/L	Added         Result         Qualifier         Unit         D           5000         5081         ug/L         ug/L           50.0         50.30         ug/L         ug/L           100         96.86         ug/L         ug/L           50.0         49.85         ug/L           50.0         49.86         ug/L           100         98.60         ug/L           50.0         50.99         ug/L           100         100.7         ug/L           505         475.9         ug/L           100         96.51         ug/L           50.0         49.14         ug/L           50.0         47.31         ug/L           100         101.1         ug/L	Added         Result         Qualifier         Unit         D         %Rec           5000         5081         ug/L         102           50.0         50.30         ug/L         101           100         96.86         ug/L         97           100         96.16         ug/L         96           50.0         49.35         ug/L         99           50.0         49.86         ug/L         99           50.0         50.99         ug/L         99           50.0         50.99         ug/L         101           505         475.9         ug/L         94           100         96.51         ug/L         97           50.0         49.14         ug/L         98           50.0         47.31         ug/L         95           100         101.1         ug/L         101	Added         Result         Qualifier         Unit         D         %Rec         Limits           5000         5081         ug/L         102         80 - 120           50.0         50.30         ug/L         101         80 - 120           100         96.86         ug/L         97         80 - 120           100         96.16         ug/L         96         80 - 120           50.0         49.35         ug/L         99         80 - 120           50.0         49.86         ug/L         100         80 - 120           100         98.60         ug/L         99         80 - 120           50.0         50.99         ug/L         102         80 - 120           100         100.7         ug/L         101         80 - 120           505         475.9         ug/L         94         80 - 120           50.0         49.14         ug/L         98         80 - 120           50.0         47.31         ug/L         98         80 - 120           50.0         47.31         ug/L         95         80 - 120           100         101.1         ug/L         101         80 - 120

Lab Sample ID: 680-232196-42 MS

Matrix: Water

Analysis Batch: 768945

Client Sample ID: AF56414 **Prep Type: Total Recoverable Prep Batch: 768613** 

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-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	100	U	5000	5171		ug/L		103	75 - 125	
Antimony	5.00	U	50.0	51.95		ug/L		104	75 - 125	
Arsenic	3.00	U	100	100.8		ug/L		100	75 - 125	
Barium	413		100	504.5	4	ug/L		91	75 - 125	
Beryllium	0.500	U	50.0	50.80		ug/L		101	75 - 125	
Cadmium	0.500	U	50.0	50.23		ug/L		100	75 - 125	
Chromium	5.00	U	100	103.6		ug/L		104	75 - 125	
Cobalt	0.500	U	50.0	51.77		ug/L		104	75 - 125	
Copper	5.00	U	100	103.1		ug/L		103	75 - 125	
Lead	2.50	U	505	527.4		ug/L		105	75 - 125	
Nickel	5.00	U	100	96.03		ug/L		96	75 - 125	
Silver	1.00	U	50.0	48.82		ug/L		98	75 - 125	
Thallium	1.00	U	50.0	53.92		ug/L		108	75 - 125	
Zinc	20.0	U	100	100.1		ug/L		100	75 - 125	

Client Sample ID: AF56414

**Prep Type: Total Recoverable** 

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 768588** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6020B - Metals (ICP/MS) (Continued)

Matrix: Water

Lab Sample ID: 680-232196-42 MS

Analysis Batch: 768945

**Prep Batch: 768613** Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits D 626 400 1027 100 75 - 125 ug/L

Lab Sample ID: 680-232196-42 MSD Client Sample ID: AF56414 Matrix: Water **Prep Type: Total Recoverable** 

Analyte

Manganese

Analysis Batch: 768945									Prep I	3atch: 7	68613
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	100	U	5000	5419		ug/L		108	75 - 125	5	20
Antimony	5.00	U	50.0	53.96		ug/L		108	75 - 125	4	20
Arsenic	3.00	U	100	118.0		ug/L		117	75 - 125	16	20
Barium	413		100	527.2	4	ug/L		114	75 - 125	4	20
Beryllium	0.500	U	50.0	54.08		ug/L		107	75 - 125	6	20
Cadmium	0.500	U	50.0	53.48		ug/L		107	75 - 125	6	20
Chromium	5.00	U	100	110.0		ug/L		110	75 - 125	6	20
Cobalt	0.500	U	50.0	55.83		ug/L		112	75 - 125	8	20
Copper	5.00	U	100	108.4		ug/L		108	75 - 125	5	20
Lead	2.50	U	505	554.7		ug/L		110	75 - 125	5	20
Nickel	5.00	U	100	101.5		ug/L		102	75 - 125	6	20
Silver	1.00	U	50.0	50.75		ug/L		101	75 - 125	4	20
Thallium	1.00	U	50.0	56.00		ug/L		112	75 - 125	4	20
Zinc	20.0	U	100	108.5		ug/L		108	75 - 125	8	20
Manganese	626		400	1076		ug/L		112	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-768588/1-A

Matrix: Water

Analysis Batch: 768864

мв мв

Analyte Result Qualifier RLMDL Unit Prepared Dil Fac Analyzed Mercury 0.200 U 0.200 ug/L 03/20/23 12:30 03/20/23 18:43

Lab Sample ID: LCS 680-768588/2-A

Matrix: Water

Prep Type: Total/NA Analysis Batch: 768864 **Prep Batch: 768588** LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.479 ug/L 80 - 120

Lab Sample ID: MB 680-768590/1-A

Matrix: Water

Analysis Batch: 768864

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.200 U 0.200 03/20/23 12:45 03/21/23 12:19 Mercury ug/L

Prep Type: Total/NA

Prep Batch: 768590

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Mercury

Mercury

Analysis Batch: 768864

Job ID: 680-232196-1

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

Lab Sample ID: LCS 680-768590/2-A	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 768864	Pren Batch: 768590

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

2.50

Lab Sample ID: 680-232196-38 MS Client Sample ID: AF56421 Matrix: Water Prep Type: Total/NA

2.311

0.8144

ug/L

ug/L

92

80 - 120

80 - 120

Prep Type: Total/NA

**Prep Batch: 768609** 

**Prep Batch: 768609** 

Analysis Batch: 768864 Prep Batch: 768590 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Mercury 0.200 UF1 1.00 0.7944 F1 ug/L 79 80 - 120

Client Sample ID: AF56421 Lab Sample ID: 680-232196-38 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 768864 Prep Batch: 768590 MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

Lab Sample ID: MB 680-768609/1-A Client Sample ID: Method Blank Matrix: Water

1.00

Analysis Batch: 768864

U F1

0.200

MB MB

MDL Unit Result Qualifier Analyte RL Prepared Analyzed Dil Fac 0.200 0.200 03/20/23 13:40 03/21/23 10:12 Mercury ug/L

Lab Sample ID: LCS 680-768609/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits

Mercury 2.50 2.338 ug/L 94 80 - 120

Lab Sample ID: 680-232196-33 MS Client Sample ID: AF56408 Matrix: Water Prep Type: Total/NA

Analysis Batch: 768864 Prep Batch: 768609 Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits

Mercury 0.200 UF1 1.00 0.8587 F1 ug/L 80 - 120

Lab Sample ID: 680-232196-33 MSD Client Sample ID: AF56408 Matrix: Water Prep Type: Total/NA

Analysis Batch: 768864 Prep Batch: 768609 MSD MSD Sample Sample Spike %Rec RPD Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits **RPD** Limit Mercury 0.200 U F1 1.00 0.7309 F1 ug/L 65 80 - 120

Lab Sample ID: MB 680-768648/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 768864 **Prep Batch: 768648** 

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.200 Mercury 0.200 U ug/L 03/20/23 15:26 03/21/23 11:46

# **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 7470A - Mercury (CVAA)

Mercury

Job ID: 680-232196-1

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 Lab Sample ID: LCS 680-768648/2- <i>i</i>	Α						Client	t Sample	ID: Lab Control Sample
Matrix: Water								-	Prep Type: Total/NA
Analysis Batch: 768864									Prep Batch: 768648
			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury			2.50	2.343		ug/L		94	80 - 120
Lab Sample ID: 680-232196-44 MS								Cli	ient Sample ID: AF56428
Matrix: Water									Prep Type: Total/NA
Analysis Batch: 768864									Prep Batch: 768648
	Sample	Sample	Spike	MS	MS				%Rec
Amelida	Desuit	Ouglifier	Addad	Deculé	Ovelifier	Hait		0/ Doo	Limita

0.8867

ug/L

89

80 - 120

Lab Sample ID: 680-232196-44 MSD	)						Client Sample ID: AF5				56428
Matrix: Water	Matrix: Water								Prep T	ype: To	tal/NA
Analysis Batch: 768864 Prep Batch: 7								68648			
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.200	U	1.00	0.8738		ug/L		87	80 - 120	1	20

1.00

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Metals

Prep Batch: 604813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-232196-1	AF56394	Total/NA	Water	3010A	
680-232196-2	AF56331	Total/NA	Water	3010A	
680-232196-3	AF56332	Total/NA	Water	3010A	
680-232196-4	AF56395	Total/NA	Water	3010A	
680-232196-5	AF56396	Total/NA	Water	3010A	
680-232196-6	AF56397	Total/NA	Water	3010A	
680-232196-7	AF56400	Total/NA	Water	3010A	
680-232196-8	AF56442	Total/NA	Water	3010A	
680-232196-9	AF56443	Total/NA	Water	3010A	
680-232196-10	AF56402	Total/NA	Water	3010A	
680-232196-11	AF56403	Total/NA	Water	3010A	
680-232196-12	AF56404	Total/NA	Water	3010A	
680-232196-13	AF56434	Total/NA	Water	3010A	
680-232196-14	AF56433	Total/NA	Water	3010A	
680-232196-15	AF56435	Total/NA	Water	3010A	
680-232196-16	AF56436	Total/NA	Water	3010A	
680-232196-17	AF56437	Total/NA	Water	3010A	
680-232196-18	AF56438	Total/NA	Water	3010A	
680-232196-19	AF56409	Total/NA	Water	3010A	
680-232196-20	AF56410	Total/NA	Water	3010A	
MB 160-604813/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604813/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232196-3 MS	AF56332	Total/NA	Water	3010A	
680-232196-3 MSD	AF56332	Total/NA	Water	3010A	

Pren Batch: 604815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-21	AF56411	Total/NA	Water	3010A	
680-232196-22	AF56412	Total/NA	Water	3010A	
680-232196-23	AF56413	Total/NA	Water	3010A	
680-232196-24	AF56430	Total/NA	Water	3010A	
680-232196-25	AF56406	Total/NA	Water	3010A	
680-232196-26	AF56407	Total/NA	Water	3010A	
680-232196-27	AF56418	Total/NA	Water	3010A	
680-232196-28	AF56422	Total/NA	Water	3010A	
680-232196-29	AF56419	Total/NA	Water	3010A	
680-232196-30	AF56425	Total/NA	Water	3010A	
680-232196-31	AF56426	Total/NA	Water	3010A	
680-232196-32	AF56427	Total/NA	Water	3010A	
680-232196-33	AF56408	Total/NA	Water	3010A	
680-232196-34	AF56415	Total/NA	Water	3010A	
680-232196-35	AF56416	Total/NA	Water	3010A	
680-232196-36	AF56417	Total/NA	Water	3010A	
680-232196-37	AF56429	Total/NA	Water	3010A	
680-232196-38	AF56421	Total/NA	Water	3010A	
680-232196-39	AF56428	Total/NA	Water	3010A	
680-232196-40	AF56439	Total/NA	Water	3010A	
MB 160-604815/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604815/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232196-22 MS	AF56412	Total/NA	Water	3010A	
680-232196-22 MSD	AF56412	Total/NA	Water	3010A	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### Metals

Prep Batch: 604817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-41	AF56441	Total/NA	Water	3010A	
680-232196-42	AF56414	Total/NA	Water	3010A	
680-232196-43	AF56423	Total/NA	Water	3010A	
680-232196-44	AF56428	Total/NA	Water	3010A	
MB 160-604817/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-232196-43 MS	AF56423	Total/NA	Water	3010A	
680-232196-43 MSD	AF56423	Total/NA	Water	3010A	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-232196-1	AF56394	Total/NA	Water	6010D	60481
680-232196-2	AF56331	Total/NA	Water	6010D	60481
680-232196-3	AF56332	Total/NA	Water	6010D	60481
680-232196-4	AF56395	Total/NA	Water	6010D	60481
680-232196-5	AF56396	Total/NA	Water	6010D	60481
680-232196-6	AF56397	Total/NA	Water	6010D	60481
680-232196-7	AF56400	Total/NA	Water	6010D	60481
880-232196-8	AF56442	Total/NA	Water	6010D	60481
680-232196-9	AF56443	Total/NA	Water	6010D	60481
880-232196-10	AF56402	Total/NA	Water	6010D	60481
680-232196-11	AF56403	Total/NA	Water	6010D	60481
680-232196-12	AF56404	Total/NA	Water	6010D	60481
880-232196-13	AF56434	Total/NA	Water	6010D	60481
680-232196-14	AF56433	Total/NA	Water	6010D	60481
680-232196-15	AF56435	Total/NA	Water	6010D	60481
680-232196-16	AF56436	Total/NA	Water	6010D	60481
80-232196-17	AF56437	Total/NA	Water	6010D	60481
680-232196-18	AF56438	Total/NA	Water	6010D	60481
680-232196-19	AF56409	Total/NA	Water	6010D	60481
680-232196-20	AF56410	Total/NA	Water	6010D	60481
80-232196-21	AF56411	Total/NA	Water	6010D	60481
680-232196-22	AF56412	Total/NA	Water	6010D	60481
680-232196-23	AF56413	Total/NA	Water	6010D	60481
880-232196-24	AF56430	Total/NA	Water	6010D	60481
680-232196-25	AF56406	Total/NA	Water	6010D	60481
680-232196-26	AF56407	Total/NA	Water	6010D	60481
880-232196-27	AF56418	Total/NA	Water	6010D	60481
680-232196-28	AF56422	Total/NA	Water	6010D	60481
680-232196-29	AF56419	Total/NA	Water	6010D	60481
880-232196-30	AF56425	Total/NA	Water	6010D	60481
680-232196-31	AF56426	Total/NA	Water	6010D	60481
680-232196-32	AF56427	Total/NA	Water	6010D	60481
680-232196-33	AF56408	Total/NA	Water	6010D	60481
680-232196-34	AF56415	Total/NA	Water	6010D	60481
880-232196-35	AF56416	Total/NA	Water	6010D	60481
880-232196-36	AF56417	Total/NA	Water	6010D	60481
680-232196-37	AF56429	Total/NA	Water	6010D	60481
680-232196-38	AF56421	Total/NA	Water	6010D	60481
680-232196-39	AF56428	Total/NA	Water	6010D	60481
680-232196-40	AF56439	Total/NA	Water	6010D	60481

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## **Metals (Continued)**

## Analysis Batch: 605060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-41	AF56441	Total/NA	Water	6010D	604817
680-232196-42	AF56414	Total/NA	Water	6010D	604817
680-232196-43	AF56423	Total/NA	Water	6010D	604817
680-232196-44	AF56428	Total/NA	Water	6010D	604817
MB 160-604813/1-A	Method Blank	Total/NA	Water	6010D	604813
MB 160-604815/1-A	Method Blank	Total/NA	Water	6010D	604815
MB 160-604817/1-A	Method Blank	Total/NA	Water	6010D	604817
LCS 160-604813/2-A	Lab Control Sample	Total/NA	Water	6010D	604813
LCS 160-604815/2-A	Lab Control Sample	Total/NA	Water	6010D	604815
LCS 160-604817/2-A	Lab Control Sample	Total/NA	Water	6010D	604817
680-232196-3 MS	AF56332	Total/NA	Water	6010D	604813
680-232196-3 MSD	AF56332	Total/NA	Water	6010D	604813
680-232196-22 MS	AF56412	Total/NA	Water	6010D	604815
680-232196-22 MSD	AF56412	Total/NA	Water	6010D	604815
680-232196-43 MS	AF56423	Total/NA	Water	6010D	604817
680-232196-43 MSD	AF56423	Total/NA	Water	6010D	604817

### **Prep Batch: 768540**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-39	AF56428	Total Recoverable	Water	3005A	
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 768544**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	3005A	
680-232196-2	AF56331	Total Recoverable	Water	3005A	
680-232196-3	AF56332	Total Recoverable	Water	3005A	
680-232196-4	AF56395	Total Recoverable	Water	3005A	
680-232196-5	AF56396	Total Recoverable	Water	3005A	
680-232196-6	AF56397	Total Recoverable	Water	3005A	
680-232196-7	AF56400	Total Recoverable	Water	3005A	
680-232196-8	AF56442	Total Recoverable	Water	3005A	
680-232196-9	AF56443	Total Recoverable	Water	3005A	
680-232196-10	AF56402	Total Recoverable	Water	3005A	
680-232196-11	AF56403	Total Recoverable	Water	3005A	
680-232196-12	AF56404	Total Recoverable	Water	3005A	
680-232196-13	AF56434	Total Recoverable	Water	3005A	
680-232196-14	AF56433	Total Recoverable	Water	3005A	
680-232196-15	AF56435	Total Recoverable	Water	3005A	
680-232196-16	AF56436	Total Recoverable	Water	3005A	
680-232196-17	AF56437	Total Recoverable	Water	3005A	
680-232196-18	AF56438	Total Recoverable	Water	3005A	
680-232196-19	AF56409	Total Recoverable	Water	3005A	
680-232196-20	AF56410	Total Recoverable	Water	3005A	
MB 680-768544/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768544/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-1 MS	AF56394	Total Recoverable	Water	3005A	
680-232196-1 MSD	AF56394	Total Recoverable	Water	3005A	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

#### Metals

Prep Batch: 768552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-232196-21	AF56411	Total Recoverable	Water	3005A	_
880-232196-22	AF56412	Total Recoverable	Water	3005A	
680-232196-23	AF56413	Total Recoverable	Water	3005A	
680-232196-24	AF56430	Total Recoverable	Water	3005A	
880-232196-25	AF56406	Total Recoverable	Water	3005A	
880-232196-26	AF56407	Total Recoverable	Water	3005A	
680-232196-27	AF56418	Total Recoverable	Water	3005A	
880-232196-28	AF56422	Total Recoverable	Water	3005A	
880-232196-29	AF56419	Total Recoverable	Water	3005A	
880-232196-30	AF56425	Total Recoverable	Water	3005A	
80-232196-31	AF56426	Total Recoverable	Water	3005A	
880-232196-32	AF56427	Total Recoverable	Water	3005A	
680-232196-33	AF56408	Total Recoverable	Water	3005A	
80-232196-34	AF56415	Total Recoverable	Water	3005A	
880-232196-35	AF56416	Total Recoverable	Water	3005A	
80-232196-36	AF56417	Total Recoverable	Water	3005A	
80-232196-37	AF56429	Total Recoverable	Water	3005A	
880-232196-38	AF56421	Total Recoverable	Water	3005A	
880-232196-40	AF56439	Total Recoverable	Water	3005A	
880-232196-41	AF56441	Total Recoverable	Water	3005A	
MB 680-768552/1-A	Method Blank	Total Recoverable	Water	3005A	
_CS 680-768552/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-21 MS	AF56411	Total Recoverable	Water	3005A	
680-232196-21 MSD	AF56411	Total Recoverable	Water	3005A	

### **Prep Batch: 768588**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total/NA	Water	7470A	
MB 680-768588/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768588/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 768590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-232196-2	AF56331	Total/NA	Water	7470A	
680-232196-3	AF56332	Total/NA	Water	7470A	
680-232196-4	AF56395	Total/NA	Water	7470A	
680-232196-5	AF56396	Total/NA	Water	7470A	
680-232196-6	AF56397	Total/NA	Water	7470A	
680-232196-12	AF56404	Total/NA	Water	7470A	
680-232196-13	AF56434	Total/NA	Water	7470A	
680-232196-14	AF56433	Total/NA	Water	7470A	
680-232196-15	AF56435	Total/NA	Water	7470A	
680-232196-16	AF56436	Total/NA	Water	7470A	
680-232196-23	AF56413	Total/NA	Water	7470A	
680-232196-24	AF56430	Total/NA	Water	7470A	
680-232196-25	AF56406	Total/NA	Water	7470A	
680-232196-26	AF56407	Total/NA	Water	7470A	
680-232196-27	AF56418	Total/NA	Water	7470A	
680-232196-34	AF56415	Total/NA	Water	7470A	
680-232196-35	AF56416	Total/NA	Water	7470A	
680-232196-36	AF56417	Total/NA	Water	7470A	

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## **Metals (Continued)**

## Prep Batch: 768590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-37	AF56429	Total/NA	Water	7470A	
680-232196-38	AF56421	Total/NA	Water	7470A	
MB 680-768590/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768590/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-232196-38 MS	AF56421	Total/NA	Water	7470A	
680-232196-38 MSD	AF56421	Total/NA	Water	7470A	

### Prep Batch: 768608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42	AF56414	Total Recoverable	Water	3005A	
680-232196-43	AF56423	Total Recoverable	Water	3005A	
680-232196-44	AF56428	Total Recoverable	Water	3005A	
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-42 MS	AF56414	Total Recoverable	Water	3005A	
680-232196-42 MSD	AF56414	Total Recoverable	Water	3005A	

### **Prep Batch: 768609**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-232196-7	AF56400	Total/NA	Water	7470A	
680-232196-8	AF56442	Total/NA	Water	7470A	
680-232196-9	AF56443	Total/NA	Water	7470A	
680-232196-10	AF56402	Total/NA	Water	7470A	
680-232196-11	AF56403	Total/NA	Water	7470A	
680-232196-17	AF56437	Total/NA	Water	7470A	
680-232196-18	AF56438	Total/NA	Water	7470A	
680-232196-19	AF56409	Total/NA	Water	7470A	
680-232196-20	AF56410	Total/NA	Water	7470A	
680-232196-21	AF56411	Total/NA	Water	7470A	
680-232196-22	AF56412	Total/NA	Water	7470A	
680-232196-28	AF56422	Total/NA	Water	7470A	
680-232196-29	AF56419	Total/NA	Water	7470A	
680-232196-30	AF56425	Total/NA	Water	7470A	
680-232196-31	AF56426	Total/NA	Water	7470A	
680-232196-32	AF56427	Total/NA	Water	7470A	
680-232196-33	AF56408	Total/NA	Water	7470A	
680-232196-39	AF56428	Total/NA	Water	7470A	
680-232196-40	AF56439	Total/NA	Water	7470A	
680-232196-41	AF56441	Total/NA	Water	7470A	
MB 680-768609/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768609/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-232196-33 MS	AF56408	Total/NA	Water	7470A	
680-232196-33 MSD	AF56408	Total/NA	Water	7470A	

#### **Prep Batch: 768613**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42	AF56414	Total Recoverable	Water	3005A	
680-232196-43	AF56423	Total Recoverable	Water	3005A	
680-232196-44	AF56428	Total Recoverable	Water	3005A	
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

**Metals (Continued)** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42 MS	AF56414	Total Recoverable	Water	3005A	
680-232196-42 MSD	AF56414	Total Recoverable	Water	3005A	

#### **Prep Batch: 768648**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-42	AF56414	Total/NA	Water	7470A	
680-232196-43	AF56423	Total/NA	Water	7470A	
680-232196-44	AF56428	Total/NA	Water	7470A	
MB 680-768648/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-768648/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-232196-44 MS	AF56428	Total/NA	Water	7470A	
680-232196-44 MSD	AF56428	Total/NA	Water	7470A	

#### **Prep Batch: 768857**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-232196-1	AF56394	Total Recoverable	Water	3005A	
680-232196-2	AF56331	Total Recoverable	Water	3005A	
680-232196-3	AF56332	Total Recoverable	Water	3005A	
680-232196-4	AF56395	Total Recoverable	Water	3005A	
680-232196-5	AF56396	Total Recoverable	Water	3005A	
680-232196-6	AF56397	Total Recoverable	Water	3005A	
680-232196-7	AF56400	Total Recoverable	Water	3005A	
680-232196-8	AF56442	Total Recoverable	Water	3005A	
680-232196-9	AF56443	Total Recoverable	Water	3005A	
680-232196-10	AF56402	Total Recoverable	Water	3005A	
680-232196-11	AF56403	Total Recoverable	Water	3005A	
680-232196-12	AF56404	Total Recoverable	Water	3005A	
680-232196-13	AF56434	Total Recoverable	Water	3005A	
680-232196-14	AF56433	Total Recoverable	Water	3005A	
680-232196-15	AF56435	Total Recoverable	Water	3005A	
680-232196-16	AF56436	Total Recoverable	Water	3005A	
680-232196-17	AF56437	Total Recoverable	Water	3005A	
680-232196-18	AF56438	Total Recoverable	Water	3005A	
680-232196-19	AF56409	Total Recoverable	Water	3005A	
680-232196-20	AF56410	Total Recoverable	Water	3005A	
MB 680-768857/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768857/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-1 MS	AF56394	Total Recoverable	Water	3005A	
680-232196-1 MSD	AF56394	Total Recoverable	Water	3005A	

### **Prep Batch: 768858**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-21	AF56411	Total Recoverable	Water	3005A	
680-232196-22	AF56412	Total Recoverable	Water	3005A	
680-232196-23	AF56413	Total Recoverable	Water	3005A	
680-232196-24	AF56430	Total Recoverable	Water	3005A	
680-232196-25	AF56406	Total Recoverable	Water	3005A	
680-232196-26	AF56407	Total Recoverable	Water	3005A	
680-232196-27	AF56418	Total Recoverable	Water	3005A	
680-232196-28	AF56422	Total Recoverable	Water	3005A	
680-232196-29	AF56419	Total Recoverable	Water	3005A	

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## **Metals (Continued)**

### Prep Batch: 768858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-232196-30	AF56425	Total Recoverable	Water	3005A	
680-232196-31	AF56426	Total Recoverable	Water	3005A	
680-232196-32	AF56427	Total Recoverable	Water	3005A	
680-232196-33	AF56408	Total Recoverable	Water	3005A	
680-232196-34	AF56415	Total Recoverable	Water	3005A	
680-232196-35	AF56416	Total Recoverable	Water	3005A	
680-232196-36	AF56417	Total Recoverable	Water	3005A	
680-232196-37	AF56429	Total Recoverable	Water	3005A	
680-232196-38	AF56421	Total Recoverable	Water	3005A	
680-232196-40	AF56439	Total Recoverable	Water	3005A	
680-232196-41	AF56441	Total Recoverable	Water	3005A	
MB 680-768858/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768858/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232196-21 MS	AF56411	Total Recoverable	Water	3005A	
680-232196-21 MSD	AF56411	Total Recoverable	Water	3005A	

#### Prep Batch: 768859

Lab Sample ID 680-232196-39	Client Sample ID AF56428	Prep Type Total Recoverable	Matrix Water	Method 3005A	Prep Batch
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Analysis Batch: 768864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total/NA	Water	7470A	768588
680-232196-2	AF56331	Total/NA	Water	7470A	768590
680-232196-3	AF56332	Total/NA	Water	7470A	768590
680-232196-4	AF56395	Total/NA	Water	7470A	768590
680-232196-5	AF56396	Total/NA	Water	7470A	768590
680-232196-6	AF56397	Total/NA	Water	7470A	768590
680-232196-7	AF56400	Total/NA	Water	7470A	768609
680-232196-8	AF56442	Total/NA	Water	7470A	768609
680-232196-9	AF56443	Total/NA	Water	7470A	768609
680-232196-10	AF56402	Total/NA	Water	7470A	768609
680-232196-11	AF56403	Total/NA	Water	7470A	768609
680-232196-12	AF56404	Total/NA	Water	7470A	768590
680-232196-13	AF56434	Total/NA	Water	7470A	768590
680-232196-14	AF56433	Total/NA	Water	7470A	768590
680-232196-15	AF56435	Total/NA	Water	7470A	768590
680-232196-16	AF56436	Total/NA	Water	7470A	768590
680-232196-17	AF56437	Total/NA	Water	7470A	768609
680-232196-18	AF56438	Total/NA	Water	7470A	768609
680-232196-19	AF56409	Total/NA	Water	7470A	768609
680-232196-20	AF56410	Total/NA	Water	7470A	768609
680-232196-21	AF56411	Total/NA	Water	7470A	768609
680-232196-22	AF56412	Total/NA	Water	7470A	768609
680-232196-23	AF56413	Total/NA	Water	7470A	768590
680-232196-24	AF56430	Total/NA	Water	7470A	768590
680-232196-25	AF56406	Total/NA	Water	7470A	768590
680-232196-26	AF56407	Total/NA	Water	7470A	768590
680-232196-27	AF56418	Total/NA	Water	7470A	768590

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## **Metals (Continued)**

### Analysis Batch: 768864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-28	AF56422	Total/NA	Water	7470A	768609
680-232196-29	AF56419	Total/NA	Water	7470A	768609
680-232196-30	AF56425	Total/NA	Water	7470A	768609
680-232196-31	AF56426	Total/NA	Water	7470A	768609
680-232196-32	AF56427	Total/NA	Water	7470A	768609
680-232196-33	AF56408	Total/NA	Water	7470A	768609
680-232196-34	AF56415	Total/NA	Water	7470A	768590
680-232196-35	AF56416	Total/NA	Water	7470A	768590
680-232196-36	AF56417	Total/NA	Water	7470A	768590
680-232196-37	AF56429	Total/NA	Water	7470A	768590
680-232196-38	AF56421	Total/NA	Water	7470A	768590
680-232196-39	AF56428	Total/NA	Water	7470A	768609
680-232196-40	AF56439	Total/NA	Water	7470A	768609
680-232196-41	AF56441	Total/NA	Water	7470A	768609
680-232196-42	AF56414	Total/NA	Water	7470A	768648
680-232196-43	AF56423	Total/NA	Water	7470A	768648
680-232196-44	AF56428	Total/NA	Water	7470A	768648
MB 680-768588/1-A	Method Blank	Total/NA	Water	7470A	768588
MB 680-768590/1-A	Method Blank	Total/NA	Water	7470A	768590
MB 680-768609/1-A	Method Blank	Total/NA	Water	7470A	768609
MB 680-768648/1-A	Method Blank	Total/NA	Water	7470A	768648
LCS 680-768588/2-A	Lab Control Sample	Total/NA	Water	7470A	768588
LCS 680-768590/2-A	Lab Control Sample	Total/NA	Water	7470A	768590
LCS 680-768609/2-A	Lab Control Sample	Total/NA	Water	7470A	768609
LCS 680-768648/2-A	Lab Control Sample	Total/NA	Water	7470A	768648
680-232196-33 MS	AF56408	Total/NA	Water	7470A	768609
680-232196-33 MSD	AF56408	Total/NA	Water	7470A	768609
680-232196-38 MS	AF56421	Total/NA	Water	7470A	768590
680-232196-38 MSD	AF56421	Total/NA	Water	7470A	768590
680-232196-44 MS	AF56428	Total/NA	Water	7470A	768648
680-232196-44 MSD	AF56428	Total/NA	Water	7470A	768648

#### Analysis Batch: 768929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	6010D	768857
680-232196-2	AF56331	Total Recoverable	Water	6010D	768857
680-232196-3	AF56332	Total Recoverable	Water	6010D	768857
680-232196-4	AF56395	Total Recoverable	Water	6010D	768857
680-232196-5	AF56396	Total Recoverable	Water	6010D	768857
680-232196-6	AF56397	Total Recoverable	Water	6010D	768857
680-232196-7	AF56400	Total Recoverable	Water	6010D	768857
680-232196-8	AF56442	Total Recoverable	Water	6010D	768857
680-232196-9	AF56443	Total Recoverable	Water	6010D	768857
680-232196-10	AF56402	Total Recoverable	Water	6010D	768857
680-232196-11	AF56403	Total Recoverable	Water	6010D	768857
680-232196-12	AF56404	Total Recoverable	Water	6010D	768857
680-232196-13	AF56434	Total Recoverable	Water	6010D	768857
680-232196-14	AF56433	Total Recoverable	Water	6010D	768857
680-232196-15	AF56435	Total Recoverable	Water	6010D	768857
680-232196-16	AF56436	Total Recoverable	Water	6010D	768857
680-232196-17	AF56437	Total Recoverable	Water	6010D	768857

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

## **Metals (Continued)**

### Analysis Batch: 768929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-18	AF56438	Total Recoverable	Water	6010D	768857
680-232196-19	AF56409	Total Recoverable	Water	6010D	768857
680-232196-20	AF56410	Total Recoverable	Water	6010D	768857
680-232196-21	AF56411	Total Recoverable	Water	6010D	768858
680-232196-22	AF56412	Total Recoverable	Water	6010D	768858
680-232196-23	AF56413	Total Recoverable	Water	6010D	768858
680-232196-24	AF56430	Total Recoverable	Water	6010D	768858
680-232196-25	AF56406	Total Recoverable	Water	6010D	768858
680-232196-26	AF56407	Total Recoverable	Water	6010D	768858
680-232196-27	AF56418	Total Recoverable	Water	6010D	768858
680-232196-28	AF56422	Total Recoverable	Water	6010D	768858
680-232196-29	AF56419	Total Recoverable	Water	6010D	768858
680-232196-30	AF56425	Total Recoverable	Water	6010D	768858
680-232196-31	AF56426	Total Recoverable	Water	6010D	768858
680-232196-32	AF56427	Total Recoverable	Water	6010D	768858
680-232196-33	AF56408	Total Recoverable	Water	6010D	768858
680-232196-34	AF56415	Total Recoverable	Water	6010D	768858
680-232196-35	AF56416	Total Recoverable	Water	6010D	768858
680-232196-36	AF56417	Total Recoverable	Water	6010D	768858
680-232196-37	AF56429	Total Recoverable	Water	6010D	768858
680-232196-38	AF56421	Total Recoverable	Water	6010D	768858
680-232196-39	AF56428	Total Recoverable	Water	6010D	768859
680-232196-40	AF56439	Total Recoverable	Water	6010D	768858
680-232196-41	AF56441	Total Recoverable	Water	6010D	768858
680-232196-42	AF56414	Total Recoverable	Water	6010D	768608
680-232196-43	AF56423	Total Recoverable	Water	6010D	768608
680-232196-44	AF56428	Total Recoverable	Water	6010D	768608
MB 680-768608/1-A	Method Blank	Total Recoverable	Water	6010D	768608
MB 680-768857/1-A	Method Blank	Total Recoverable	Water	6010D	768857
MB 680-768858/1-A	Method Blank	Total Recoverable	Water	6010D	768858
MB 680-768859/1-A	Method Blank	Total Recoverable	Water	6010D	768859
LCS 680-768608/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768608
LCS 680-768857/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768857
LCS 680-768858/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768858
LCS 680-768859/2-A	Lab Control Sample	Total Recoverable	Water	6010D	768859
680-232196-1 MS	AF56394	Total Recoverable	Water	6010D	768857
680-232196-1 MSD	AF56394	Total Recoverable	Water	6010D	768857
680-232196-21 MS	AF56411	Total Recoverable	Water	6010D	768858
680-232196-21 MSD	AF56411	Total Recoverable	Water	6010D	768858
680-232196-42 MS	AF56414	Total Recoverable	Water	6010D	768608
680-232196-42 MSD	AF56414	Total Recoverable	Water	6010D	768608

#### Analysis Batch: 768945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	6020B	768544
680-232196-2	AF56331	Total Recoverable	Water	6020B	768544
680-232196-3	AF56332	Total Recoverable	Water	6020B	768544
680-232196-4	AF56395	Total Recoverable	Water	6020B	768544
680-232196-5	AF56396	Total Recoverable	Water	6020B	768544
680-232196-6	AF56397	Total Recoverable	Water	6020B	768544
680-232196-7	AF56400	Total Recoverable	Water	6020B	768544

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### **Metals (Continued)**

## Analysis Batch: 768945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-8	AF56442	Total Recoverable	Water	6020B	768544
680-232196-9	AF56443	Total Recoverable	Water	6020B	768544
680-232196-10	AF56402	Total Recoverable	Water	6020B	768544
680-232196-11	AF56403	Total Recoverable	Water	6020B	768544
680-232196-12	AF56404	Total Recoverable	Water	6020B	768544
680-232196-13	AF56434	Total Recoverable	Water	6020B	768544
680-232196-14	AF56433	Total Recoverable	Water	6020B	768544
680-232196-15	AF56435	Total Recoverable	Water	6020B	768544
680-232196-16	AF56436	Total Recoverable	Water	6020B	768544
680-232196-17	AF56437	Total Recoverable	Water	6020B	768544
680-232196-18	AF56438	Total Recoverable	Water	6020B	768544
680-232196-19	AF56409	Total Recoverable	Water	6020B	768544
680-232196-20	AF56410	Total Recoverable	Water	6020B	768544
680-232196-21	AF56411	Total Recoverable	Water	6020B	768552
680-232196-22	AF56412	Total Recoverable	Water	6020B	768552
680-232196-23	AF56413	Total Recoverable	Water	6020B	768552
680-232196-24	AF56430	Total Recoverable	Water	6020B	768552
680-232196-25	AF56406	Total Recoverable	Water	6020B	768552
680-232196-26	AF56407	Total Recoverable	Water	6020B	768552
680-232196-27	AF56418	Total Recoverable	Water	6020B	768552
680-232196-28	AF56422	Total Recoverable	Water	6020B	768552
680-232196-29	AF56419	Total Recoverable	Water	6020B	768552
680-232196-30	AF56425	Total Recoverable	Water	6020B	768552
680-232196-31	AF56426	Total Recoverable	Water	6020B	768552
680-232196-32	AF56427	Total Recoverable	Water	6020B	768552 768552
680-232196-33	AF56408	Total Recoverable	Water	6020B	768552 768552
680-232196-34	AF56415	Total Recoverable	Water	6020B	768552
680-232196-35	AF56417	Total Recoverable	Water	6020B	768552
680-232196-36	AF56417	Total Recoverable	Water	6020B	768552
680-232196-37	AF56429	Total Recoverable	Water	6020B	768552
680-232196-38	AF56421	Total Recoverable	Water	6020B	768552
680-232196-39	AF56428	Total Recoverable	Water	6020B	768540
680-232196-40	AF56439	Total Recoverable	Water	6020B	768552
680-232196-41	AF56441	Total Recoverable	Water	6020B	768552
680-232196-42	AF56414	Total Recoverable	Water	6020B	768613
680-232196-43	AF56423	Total Recoverable	Water	6020B	768613
680-232196-44	AF56428	Total Recoverable	Water	6020B	768613
MB 680-768540/1-A	Method Blank	Total Recoverable	Water	6020B	768540
MB 680-768544/1-A	Method Blank	Total Recoverable	Water	6020B	768544
MB 680-768552/1-A	Method Blank	Total Recoverable	Water	6020B	768552
MB 680-768613/1-A	Method Blank	Total Recoverable	Water	6020B	768613
LCS 680-768540/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768540
LCS 680-768544/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768544
LCS 680-768552/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768552
LCS 680-768613/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768613
680-232196-1 MS	AF56394	Total Recoverable	Water	6020B	768544
680-232196-1 MSD	AF56394	Total Recoverable	Water	6020B	768544
680-232196-21 MS	AF56411	Total Recoverable	Water	6020B	768552
680-232196-21 MSD	AF56411	Total Recoverable	Water	6020B	768552
680-232196-42 MS	AF56414	Total Recoverable	Water	6020B	768613
680-232196-42 MSD	AF56414	Total Recoverable	Water	6020B	768613

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

#### Metals

Analysis Batch: 769014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-1	AF56394	Total Recoverable	Water	6020B	768544
680-232196-2	AF56331	Total Recoverable	Water	6020B	768544
680-232196-3	AF56332	Total Recoverable	Water	6020B	768544
680-232196-4	AF56395	Total Recoverable	Water	6020B	768544
680-232196-5	AF56396	Total Recoverable	Water	6020B	768544
680-232196-6	AF56397	Total Recoverable	Water	6020B	768544
680-232196-39	AF56428	Total Recoverable	Water	6020B	768540
MB 680-768544/1-A	Method Blank	Total Recoverable	Water	6020B	768544
LCS 680-768544/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768544
680-232196-1 MS	AF56394	Total Recoverable	Water	6020B	768544
680-232196-1 MSD	AF56394	Total Recoverable	Water	6020B	768544

Analysis Batch: 769167

 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232196-19	AF56409	Total Recoverable	Water	6010D	768857
680-232196-20	AF56410	Total Recoverable	Water	6010D	768857
680-232196-21	AF56411	Total Recoverable	Water	6010D	768858
680-232196-21 MS	AF56411	Total Recoverable	Water	6010D	768858
680-232196-21 MSD	AF56411	Total Recoverable	Water	6010D	768858

### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

Lab Sample ID: 680-232196-1

Lab Sample ID: 680-232196-2

Matrix: Water

Client Sample ID: AF56394

Date Collected: 02/14/23 12:33 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:21
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 13:50
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:05
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:30
Total/NA	Prep	7470A			768588	ВСВ	EET SAV	03/20/23 12:30
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/20/23 19:57

Client Sample ID: AF56331

Date Collected: 02/14/23 13:51

Date Received: 03/17/23 10:30

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:31
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:13
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:16
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:50
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:40

**Client Sample ID: AF56332** 

Date Collected: 02/14/23 15:22

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:40
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:18
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:20
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:54
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:20

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Lab Sample ID: 680-232196-3 Matrix: Water

Matrix: Water

### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56395** 

Job ID: 680-232196-1

Lab Sample ID: 680-232196-4

Date Collected: 02/15/23 11:36 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:44
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:36
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:24
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:58
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:56

Client Sample ID: AF56396 Lab Sample ID: 680-232196-5

Date Collected: 02/15/23 13:21 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	ВЈВ	EET SAV	03/21/23 22:47
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:41
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:28
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 10:02
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 14:04

Client Sample ID: AF56397 Lab Sample ID: 680-232196-6

Date Collected: 02/16/23 10:53 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:50
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:45
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:32
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 10:06
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:43

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56400

Lab Sample ID: 680-232196-7 Date Collected: 02/16/23 12:55

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:53
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 14:50
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:44
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:09

Client Sample ID: AF56442

Lab Sample ID: 680-232196-8

Matrix: Water

Date Collected: 02/16/23 14:07 Date Received: 03/17/23 10:30

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed 3005A EET SAV 03/20/23 09:08 Total Recoverable Prep 768857 BJB Total Recoverable 6010D 03/21/23 22:57 Analysis 768929 BJB **EET SAV** Total/NA Prep 3010A 604813 LKP EET SL 03/23/23 14:13 Total/NA Analysis 6010D 1 605060 LKP EET SL 03/24/23 15:08 3005A 03/20/23 09:08 Total Recoverable Prep 768544 RR **EET SAV** Total Recoverable Analysis 6020B 768945 BWR **EET SAV** 03/21/23 18:48 03/20/23 13:40 Total/NA Prep 7470A 768609 BCB **EET SAV** Total/NA Analysis 7470A 1 768864 BCB **EET SAV** 03/21/23 11:19

Client Sample ID: AF56443

Lab Sample ID: 680-232196-9 Date Collected: 02/16/23 14:12

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:00
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:13
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:52
Total/NA	Prep	7470A			768609	всв	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	всв	EET SAV	03/21/23 10:52

Client Sample ID: AF56402

Lab Sample ID: 680-232196-10

Matrix: Water

Date Collected: 02/27/23 12:47 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:03

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56402** 

Date Collected: 02/27/23 12:47 Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-10

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:18
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 18:56
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:42

Client Sample ID: AF56403

Date Collected: 02/27/23 09:57 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232196-11

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:06
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:22
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:00
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:32

Client Sample ID: AF56404

Date Collected: 02/27/23 10:02

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-12	Lab	Sample	ID:	680-232196-12	
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:10
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:27
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:03
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:50

Client Sample ID: AF56434

Date Collected: 02/27/23 15:44

Date Received: 03/17/23 10:30

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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:19
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:32

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56434

Lab Sample ID: 680-232196-13 Date Collected: 02/27/23 15:44

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:07
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 13:36

**Client Sample ID: AF56433** 

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-14 Date Collected: 02/28/23 12:58

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:23
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:37
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:11
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:16

**Client Sample ID: AF56435** 

Lab Sample ID: 680-232196-15 Date Collected: 02/28/23 11:44 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:26
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:42
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:15
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	всв	EET SAV	03/21/23 13:06

**Client Sample ID: AF56436** 

Lab Sample ID: 680-232196-16 Date Collected: 02/28/23 10:19

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:29
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:46
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:19

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Matrix: Water

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56436** 

Lab Sample ID: 680-232196-16 Date Collected: 02/28/23 10:19

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			768590	BCB	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 12:39

**Client Sample ID: AF56437** 

Lab Sample ID: 680-232196-17

Matrix: Water

Date Collected: 02/28/23 10:24 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:32
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 15:51
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:31
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:35

**Client Sample ID: AF56438** 

Lab Sample ID: 680-232196-18 Date Collected: 02/28/23 14:31

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:36
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:10
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:35
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 11:32

Client Sample ID: AF56409

Lab Sample ID: 680-232196-19 Date Collected: 03/06/23 12:14 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:39
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 11:50
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:14
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:39

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56409

Lab Sample ID: 680-232196-19 Date Collected: 03/06/23 12:14

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:12

**Client Sample ID: AF56410** Lab Sample ID: 680-232196-20

Matrix: Water

Date Collected: 03/06/23 12:19 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 23:42
Total Recoverable	Prep	3005A			768857	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 11:53
Total/NA	Prep	3010A			604813	LKP	EET SL	03/23/23 14:13
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:19
Total Recoverable	Prep	3005A			768544	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 19:43
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:59

Client Sample ID: AF56411 Lab Sample ID: 680-232196-21

Date Collected: 03/06/23 11:08 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:50
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		10	769167	BJB	EET SAV	03/22/23 11:56
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:42
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:02
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:38

Client Sample ID: AF56412 Lab Sample ID: 680-232196-22

Date Collected: 03/06/23 15:15 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:00
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 16:51

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56412

Date Collected: 03/06/23 15:15 Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-22

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:14
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
_Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:20

Client Sample ID: AF56413

Lab Sample ID: 680-232196-23 Date Collected: 03/06/23 13:41

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:03
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:23
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:18
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:46

Client Sample ID: AF56430

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-24 Date Collected: 03/06/23 10:10 Matrix: Water

Batch Batch Dilution Batch Prepared or Analyzed **Prep Type** Type Method Run Factor Number Analyst Lab Total Recoverable 3005A 768858 BJB EET SAV 03/20/23 09:08 Prep Total Recoverable Analysis 6010D 768929 BJB **EET SAV** 03/21/23 21:06 1 Total/NA 3010A EET SL 03/23/23 14:15 Prep 604815 LKP Total/NA Analysis 6010D 1 605060 LKP EET SL 03/24/23 17:28 3005A 03/20/23 09:08 Total Recoverable Prep 768552 RR **EET SAV** Total Recoverable 6020B 768945 BWR **EET SAV** 03/21/23 20:22 Analysis Total/NA 7470A 768590 BCB EET SAV 03/20/23 12:45 Prep 768864 BCB Total/NA 7470A **EET SAV** 03/21/23 14:10 Analysis 1

Client Sample ID: AF56406

Date Collected: 03/09/23 10:29 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:09
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:33
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:26

**Eurofins Savannah** 

Lab Sample ID: 680-232196-25

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56406** 

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-25 Date Collected: 03/09/23 10:29

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	всв	EET SAV	03/21/23 13:13

**Client Sample ID: AF56407** 

Lab Sample ID: 680-232196-26 Date Collected: 03/09/23 10:34

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:13
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:38
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:30
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:03

Client Sample ID: AF56418

Lab Sample ID: 680-232196-27 Date Collected: 03/09/23 12:07

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:22
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:42
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:41
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:36

Client Sample ID: AF56422

Lab Sample ID: 680-232196-28

Date Collected: 03/09/23 13:19 Matrix: Water Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:26
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:47
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:45
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:24

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56419

Date Collected: 03/07/23 14:51 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232196-29

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:29
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 17:52
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:49
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:22

**Client Sample ID: AF56425** 

Date Collected: 03/07/23 12:49

Lab Sample ID: 680-232196-30

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		- <u> </u>	768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:32
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:10
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:53
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:05

**Client Sample ID: AF56426** 

Date Collected: 03/07/23 10:22

Date Received: 03/17/23 10:30

Lab Sam	ple II	D: 68	30-232°	196-31
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:35
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:15
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 20:57
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 10:55

Client Sample ID: AF56427

Date Collected: 03/07/23 10:27

Date Received: 03/17/23 10:30

.ab Sample ID: 680-232196-	32	2
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:39

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56427

Date Collected: 03/07/23 10:27 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232196-32

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:19
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:01
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 10:35

Client Sample ID: AF56408

Date Collected: 03/08/23 13:38 Date Received: 03/17/23 10:30 Lab Sample ID: 680-232196-33

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:42
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:24
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:05
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	всв	EET SAV	03/21/23 12:16

**Client Sample ID: AF56415** 

Date Collected: 03/08/23 15:13

Date Received: 03/17/23 10:30

Lab Sample ID	: 680-	-232196	3-34
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:45
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:29
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:09
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 13:43

Client Sample ID: AF56416

Date Collected: 03/08/23 10:09

Date Received: 03/17/23 10:30

Lah	Sample	ID.	680-232196-35
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Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:48
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:34

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Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF56416** 

Date Received: 03/17/23 10:30

Date Collected: 03/08/23 10:09

Lab Sample ID: 680-232196-35

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:13
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 13:23

**Client Sample ID: AF56417** 

Date Collected: 03/08/23 10:14

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-36

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 21:52
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:38
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:17
Total/NA	Prep	7470A			768590	всв	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	ВСВ	EET SAV	03/21/23 13:10

Client Sample ID: AF56429

Date Collected: 03/08/23 12:12

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-37

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:01
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:43
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:28
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:07

Client Sample ID: AF56421

Date Collected: 03/01/23 14:41

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-38

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:05
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:48
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:32

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56421

Lab Sample ID: 680-232196-38 Date Collected: 03/01/23 14:41

Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			768590	ВСВ	EET SAV	03/20/23 12:45
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 12:26

**Client Sample ID: AF56428** Lab Sample ID: 680-232196-39

Matrix: Water

Date Collected: 03/01/23 13:37 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		- <del></del> -	768859	BJB	EET SAV	03/20/23 09:01
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 20:34
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 18:52
Total Recoverable	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 17:45
Total Recoverable	Prep	3005A			768540	RR	EET SAV	03/20/23 09:01
Total Recoverable	Analysis	6020B		1	769014	BWR	EET SAV	03/22/23 09:19
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:39

Client Sample ID: AF56439

Lab Sample ID: 680-232196-40

Matrix: Water

Date Collected: 03/01/23 10:22 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type Method Run		Factor	Number	Analyst	Lab	or Analyzed	
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:08
Total/NA	Prep	3010A			604815	LKP	EET SL	03/23/23 14:15
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:11
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:36
Total/NA	Prep	7470A			768609	ВСВ	EET SAV	03/20/23 13:40
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 11:15

**Client Sample ID: AF56441** 

Lab Sample ID: 680-232196-41 Date Collected: 03/01/23 11:45 Matrix: Water

Date Received: 03/17/23 10:30

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			768858	BJB	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 22:11
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:24
Total Recoverable	Prep	3005A			768552	RR	EET SAV	03/20/23 09:08
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 21:40

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF56441

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-41 Date Collected: 03/01/23 11:45

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 7470A EET SAV 03/20/23 13:40 Total/NA Prep 768609 всв 03/21/23 11:02 Total/NA Analysis 7470A 1 768864 BCB **EET SAV** 

Client Sample ID: AF56414

Lab Sample ID: 680-232196-42

Matrix: Water

Date Collected: 03/02/23 12:46 Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total Recoverable	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39	
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 10:48	
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17	
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 19:34	
Total Recoverable	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39	
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:04	
Total/NA	Prep	7470A			768648	всв	EET SAV	03/20/23 15:26	
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:17	

Client Sample ID: AF56423

Date Received: 03/17/23 10:30

Lab Sample ID: 680-232196-43 Date Collected: 03/02/23 10:56 Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total Recoverable 3005A 768608 RR EET SAV 03/20/23 13:39 Prep 6010D 03/21/23 10:58 Total Recoverable Analysis 768929 BJB **EET SAV** 1 Total/NA Prep 3010A 604817 LKP EET SL 03/23/23 14:17 Total/NA Analysis 6010D 605060 LKP EET SL 03/24/23 19:38 1 Total Recoverable 3005A EET SAV 03/20/23 13:39 Prep 768613 RR 03/21/23 22:15 Total Recoverable Analysis 6020B 768945 BWR **EET SAV** Total/NA 7470A 768648 BCB EET SAV 03/20/23 15:26 Prep 03/21/23 12:02 Total/NA 7470A 768864 BCB **EET SAV** Analysis 1

Client Sample ID: AF56428

Lab Sample ID: 680-232196-44 Date Collected: 03/02/23 00:00 Matrix: Water

Date Received: 03/17/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	pe Type Method Run		Factor	Number	Analyst	Lab	or Analyzed	
Total Recoverable	Prep	3005A			768608	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6010D		1	768929	BJB	EET SAV	03/21/23 11:01
Total/NA	Prep	3010A			604817	LKP	EET SL	03/23/23 14:17
Total/NA	Analysis	6010D		1	605060	LKP	EET SL	03/24/23 20:11
Total Recoverable	Prep	3005A			768613	RR	EET SAV	03/20/23 13:39
Total Recoverable	Analysis	6020B		1	768945	BWR	EET SAV	03/21/23 22:19
Total/NA	Prep	7470A			768648	ВСВ	EET SAV	03/20/23 15:26
Total/NA	Analysis	7470A		1	768864	BCB	EET SAV	03/21/23 14:14

### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

#### 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

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**Customer Email/Report Recipient:** 

Project/Task/Unit #:

# **Chain of Custody**

Date Results Needed by:



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

Rerun request for any flagged QC

TOTAL

LCWILLIA 125915 / JM02.09.601.1/ 36500 Yes No \_@santeecooper.com Analysis Group Labworks ID# Sample Location/ Comments TOTAL METALS Matrix(see below) (Internal use Description **Collection Date** Collection Time Total # of container (see Method # Sample Collector Sem Se Preservative (s below) only) Grab (G) or Composite (C) Reporting limit Bottle type: ( G/Plastic-P) Misc sample info Any other notes 2DM GW 2/14/23 1233 G SEE SHEET FOR RLS AF56374 WAP-1 WHERE APPLICABLE 1351 WBW-HG 7470 32 WBW-AI-I 1522 B-6010 2/15/23 1136 AF 56395 WAP-2 ALL OTHERS 6020. 1321 96 WAP-3 ZDM 2/16/23 1053 \* PLEASE SEND SAMPLES A+56397 WAP-4 MG TO ST LOUIS FOR B. WAP-7 1255 400 442 WLF A2-6 1407 443 WLF AZ 6D 1412 Sample Receiving (Internal Use Only) \_\_ Initial: TEMP (°C): Correct pH: Yes Preservative Lot#:

Employee#	03/19-12 Date	<i>ት 10:ን</i> ነ
Employee#	Date	Time
Employee#	Date	Time
000000000000000000000000000000000000000	Employee#	Employee# Date

Date/Time/Init for preservative:

, □ METALS (all )			Nutrients	MISC.	Gypsum	Coal	Flyash	<u>Oil</u>
Ag Bai As	≱Cu ≱Fe ≽K	Sb Sc □ Sn	□ TOC □ DOC □ TP/TPO4	□ BTEX □ Naphthalene □ THM/HAA	□ Wallboard Gypsum(all below) □ AIM	□ Ultimate □ % Moisture □ Ash	☐ Ammonia ☐ LOI ☐ % Carbon	☐ Trans. Oil Qual. ☐ %Moisture ☐ Color ☐ Acidity
⊠Ba ⊠Ba ⊠Be	)⊉Li  XMg  XMn	□ Sr □ Ti □ Ti	□ NH3-N □ F □ Cl □ NO2	□ VOC □ Coll & Grease □ E. Coli □ Total Coliform □ pH □ Dissolved As □ Dissolved Fe □ Rad 226 □ Rad 228 □ PCB	☐ TOC ☐ Total metals ☐ Soluble Metals ☐ Purity (CaSO4)	☐ Sulfur ☐ BTUs ☐ Volatile Matter ☐ CHN	☐ Mineral Analysis ☐ Sieve ☐ % Moisture	☐ Dielectric Streng ☐ IFT ☐ Dissolved Gas ☐ Used Oil
∑ Ca X∮ Cd	MMo Na	□ V ØZn	□ Br □ NO3 □ SO4		□ % Moisture □ Sulfites □ pH	Other Tests:  XRF Scan  HGI	NPDES	☐ Flashpoint ☐ Metals in oil (As,Cd,Cr,Ni
∏′Co Ø Cr	XNi XPb	)⊈Hg □ CrVI			☐ Chlorides ☐ Particle Size ☐ Sulfur	☐ Fineness ☐ Particulate Matter	☐ As ☐ TSS	Hg)  ☐ TX  ☐ GOFER

18.3/18.2



680-232196 Chain of Custody

Matrix codes. GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boller water, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section) Preservative code- 1=<4°C 2=HNO<sub>3</sub> 3=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

# **Chain of Custody**

TOTAL

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

Labw (Inter	orks IE			@santeeco	oner com													Rerun request for any flagged QC				
(Inter	rnal use	D#											<u> J</u> M	02.0	9.GØ).[/	3 6500 (Yes)	Yes) No					
(Inter	rnal use	D#														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	Method     Reportin     Misc, sa     Any other	ng limit mple info	TOTAL METALS SEE BELOW							
AF56402 WAP 9			2/27/23	1247	ZDM ML	_ (		P	G	GW	2	SEE SH	HEET FOR RLS	X								
1	۴	o3	W	4P-10			0957								WHERE	APPLICABLE.						
	c	04	WAP-IOD			1002								HG-7470 B-6010								
	4	चप	WLF-A -2				1244								ALL OTHER	RS 602D ·	ornicas and the					
AF56433 WLF-H-1			2/28/23	3 1258								* PLEASE										
	2	35	WLF-AI-3				।।५५								BORON.	.,,,						
	1	36	WLF-AI-4				1019															
	â	37	WLF-A1-40			1024																
1 38 WLF-AI-5		<u> </u>	14-31	1	1					<u> </u>			1.									
Relinquished by: Employee# Date  Synusum 35594 3/16/23  Relinquished by: Employee# Date		Time [3の Time	om			Employee # Date  P1// 7  Employee # Date		7/23					, , ,	<del>-</del>								
Re	linguish	hed by:		Employee#	Date	Time	Receiv	ed by:		Employee # Date			Date	9	Time							
	<del>,</del>															Date/Time/Init for preserv	ative:					
A A A B A B A C A C	Q Ba		u c (g (n (o a		C DBTEX C Naphthalene TPO4 DTHM/HAA J-N Oil & Grease E Coli Total Coliform The Dissolved As Dissolved Fe Rad 226 Rad 228 DPCB			Gypsum  Wallboard Gypsum(all below) AIM TOC Total metals Soluble Metals Purity (CaSO4) Moisture Sulfites PH Chlorides Particle Size			all tals Metals aSO4) are	Coal  Ultimate  Moisture  Ash Sulfur BTUs Volatile Matter CHN Other Tests: XRF Scan HGI Fineness Particulate Matter Ash Oil & Grease Ash Oil & Grease Ash Oil & Grease Ash				issolve d Oll lashpoi fetals in As,Cd,( lg) X	Qual ure Streng d Gas nt n oil	(h				

santee cooper

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

TOTAL **Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC JM02 09. GØ1.1/ 36500 LCWILLIA (Yes) @santeecooper.com No **Analysis Group** Labworks ID# Sample Location/ Comments Matrix(see below) Preservative (see below) TOTAL METAL **Collection Time** BELOW Bottle type: (Glass-G/Plastic-P) (Internal use Description Collection Date Method # Sample Collector Total # of contail only) Grab (G) or Composite (C) Reporting limit Misc. sample info Any other notes SEE SHEET FOR RUS ZOM 2 × 3/6/23 P GW 1214 G AF 56409 WAP -14 ML WHERE APPLICABLE 46-1470 10 WAP - 14D 1219 B-6010 BU OTHERS 6020. 1108 WAP-MA 1515 12 \* PLEASE SEAD OUT WAP - 14B FOR BORDN. 13 WAP - I4C 1341 30 WAP-29 1010 AF56406 3/9/23 WAP-12 1029 07 WAP-12D 1034 18 WAP -18 1207 WAP-22 22 1319 Sample Receiving (Internal Use Only) Relinguished by: Employee# Received by: Date Time Employee # Date Time TEMP (°C):\_ Initial: Des 03/19 35594 1300 Moun 3/16/23 /orz Correct pH: Yes No Relinquished by: Employee# Date Time Received by: Employee # Time Preservative Lot#: Relinquished by: Employee# Date Time Received by: Employee # Date Time Date/Time/init for preservative: ☐ METALS (all ) **Nutrients** MISC. Gypsum Coal Oil Flyash Ag **⊅**(Cu 汝 Sb □ TOC D BTEX □ Wallboard □ Ultimate Trans. Oil Qual. ☐ Ammonia KA1 Ø.Fe ⊠ Se □ Naphthalene Gypsum(all %Moisture  $\Box$  DOC ☐ % Moisture O LOI □ THM/HAA ⊠ As XΚ □ Sn Color □ TP/TPO4 below) □ % Carbon ☐ Ash □ VOC Acidity □ NH3-N ☐ Sulfur ØВ (Li □ Sr ☐ Mineral Dielectric Strength ☐ Oil & Grease DTOC OF ☐ BTUs Analysis □ E. Coli **Д** Ва **⊠**Mg □ Ti □ Total metals D CI ☐ Total Coliform ☐ Volatile Matter ☐ Sieve Dissolved Gases ☐ Soluble Metals ⊠ Be 炒 Mn IT ØK □ NO2 □ CHN □ % Moisture Used Oil □pH □ Purity (CaSO4) Flashpoint
Metals in oil
(As,Cd,Cr,Ni,Pb
Hg) □ Dissolved As □ Br Other Tests: □ % Moisture ДМо Ж Са  $\square V$ Dissolved Fe □ NO3 □ Sulfites ☐ XRF Scan **NPDES** Ø Cd X Zn Na ☐ Rad 226 □ SO4 □рН □ Oil & Grease □ Rad 228 ☐ Chlorides □ Fineness ⊠ Hg X Co Ni Ni **DPCB** ☐ Particle Size ☐ Particulate Matter GOFER D/Pb □ CrVI



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

TOTAL **Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA 125915 / JM02.09.601.1/ 36500 @santeecooper.com (Yes) No Analysis Group Labworks ID# Sample Location/ Comments MELOW Matrix(see below) Preservative (see below) Collection Date (Internal use Description Collection Time fotal # of container Method# Sample Collector only) Grab (G) or Composite (C) Reporting limit Bottle type: ( G/Plastic-P) Misc. sample info SER B Any other notes ZOM SEE SHEET FOR MLS 3/7/23 P X AF56419 WAP-19 1451 G G₩ ML WHERE APPLICABLE WAP-25 1249 HG-7470 B-6010 1022 WAP-26 26 WAP-26D ALL OTHERS 6020. 27 1027 AF56408 3/8/23 WAP-13 1338 \* PLEASE SEND OUT 15 WAP-16 1213 FOR BORON. 16 WAP-17 1009 17 WAP-17D 1014 27 WAP-28 1212 Sample Receiving (Internal Use Only) Relinquished by: Time Received by: Employee# Date Employee# Date Time TEMP (°C): Initial: 00/A Domoun 35594 3/16/23 1300 カタン resto Correct pH: Yes Relinquished by: Employee# Date Received by: Date Time Time Employee# Preservative Lot#: Relinquished by: Employee# Date Time Received by: Employee# Date Time Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. **Gypsum** Coal Oil <u>Flyash</u> X Ag X Al XÚ Sb Ø Cu п тос O BTEX □ Wallboard Trans. Oll Qual. ☐ Ultimate ☐ Ammonia ₽ Fe ⊠ Se □ Naphthalene □ DOC Gypsum(all ☐ % Moisture %Moisture Ø(As ØΚ □ Sn □ THM/HAA below) □ TP/TPO4 □ Asb □ % Carbon □ AIM □ TOC □ VOC Acidity
 Dielectric Strength ☐ NH3-N ☐ Sulfur ЮB K Li ☐ Mineral □ Sr □ Oil & Grease OF □ BTUs Analysis □ E. Coli HFT ⊠ Ba ☐ Total metals Ø Mg □ Ti □ C1 ☐ Volatile Matter □ Sieve Dissolved Gases ☐ Total Coliform ☐ Soluble Metals ⊠ Mn ⊠ Ве M TI □ NO2 □ CHN ☐ % Moisture Used Oil □pH □ Purity (CaSO4) Flashpoint
Metals in oil
(As,Cd,Cr,Ni,Pb □ Br □ Dissolved As □ % Moisture Other Tests: X Ca ⊠′Mo ΠV ☐ Dissolved Fe □ Sulfites ☐ XRF Scan I) NO3 <u>NPDES</u> ⊠ Cd Na Na y⊉ Zn ☐ Rad 226 OHOL □ SO4 □рН □ Oil & Grease ☐ Rad 228 □ Chlorides ☐ Fineness Xo Co ⊠ Ni Ø Hg □ PCB ☐ Particulate Matter ☐ Particle Size □ TSS 🛭 Ст Ø Pb GOFER □ CrVI □ Sulfur



Sanice Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone (843)761-8000 Ext. 5148 Fax (843)761-4175 TOTAL **Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC JM02.09. GØ1.1 / LCWILLIA @santeecooper.com **(es)** No Analysis Group Labworks ID# Sample Location/ Comments TOTAL METAS Matrix(see below) **Collection Date** (Internal use Description **Collection Time** (Glass see) Total # of container Method # BELDW Sample Collector Preservative (s below) only) Reporting limit Grab (G) or Composite (C) Bottle type: (I G/Plastic-P) Misc. sample mfo Any other notes SEE ZDM SEE SHEET FOR KUS 2 P 3/1/23 G AF56421 1441 X WAP-21 ML WHERE APPLICABLE. 1337 24 WAP-24 HG-7470 39 1022 WLF-A2-1 8-6010 1145 41 ALL OTHERS 6020 WLF- A2-2 G AF56414 WAP -15 3/2/23 1246 GW WAP-23 0952 \* PLEASE SEAD BUT FOR BORDH. 28 WAP-27 1056 Sample Receiving (Internal Use Only) Received by: Relinquished by: Employee# Date Time Employee# Date Time TEMP (°C):\_ \_\_\_Initial: ters のりノイチ Sproun 35514 23 Correct pH: Yes 3/16/23 1300 u Relinquished by: Date Time Received by: Time Employee# Employee# Date Preservative Lot#: Received by: Date Time Relinquished by: Employee# Date Time Employee # Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. <u>Gypsum</u> Coal <u>Flyash</u> Oil )⊠ Sb ⊠ Ag ⊠ Cu □ Wallboard □ TOC □ BTEX □ Ultimate ☐ Ammonia Trans, Oil Qual. ⊠Se X Al ∦ Fe D DOC □ Naphthalene Gypsum(all %Moisture □ % Moisture ØК □ Sn ☐ THM/HAA Ø As below) ☐ TP/TPO4 □ Ash ☐ % Carbon □ AIM □ TOC □ VOC Acidity □ NH3-N ☐ Sulfur Ŋ-Li ØВ ☐ Sr ☐ Mineral ☐ Oil & Grease Dielectric Strength  $\square F$ □ BTUs Analysis □ E. Coli IFT Ø Ba Ø Mg □ Ti ☐ Total metals  $\square$  CI ☐ Volatile Matter ☐ Sieve ☐ Total Coliform Dissolved Gases ☐ Soluble Metals
☐ Purity (CaSO4) Mn 🗷 14;T1 D NO2 ДВе □ CHN ☐ % Moisture Used Oll □рН Flashpoint
Metals in oil
(As, Cd, Cr, Ni, Pb
Hg) □ Br ☐ Dissolved As Other Tests: □ % Moisture ⊠ Ca ⊠ Mo  $\square V$ ☐ Dissolved Fe □ XRF Scan O NO3 ☐ Sulfites <u>NPDES</u> Ø Cd X Na X Zn ☐ Rad 226 □ HGI □рН □ SO4 □ Oil & Grease ☐ Rad 228 ☐ Fineness ☐ Chlorides X Co XÚ Ní Ø/Hg □ PCB □ Particulate Matter ☐ Particle Size □ TSS GOFER Ø Cr X Pb ☐ CrVI □ Sulfur

Table of	Reporting	Limits fo	r 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	

Ver: 06/08/2021

# Chain of Custody Red

Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165

**Eurofins Savannah** 5102 LaRoche Avenue

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cord

Environment Testing

💸 eurofins

Client Information (Sub Contract Lab)	Sampler:			Lab PM Lanier	Lab PM: Lanier, Jerry A	∢			Carrier Tracking No(s)	No(s):	COC No 680-73	COC No: 680-731060.1	
Client Contact: Shipping/Receiving	Phone			E-Mail Jerry	ı. /.Lanier@	E-Mail: Jerry Lanier@et.eurofinsus.com	sus.com		State of Origin: South Carolina	8	Page 1 of 5	of 5	
Company: TestAmerica Laboratories, Inc.					Accreditat NELAP	Accreditations Required (See note) NELAP - Florida; State - So	d (See note) State - Sout	th Caroling	Accreditations Required (See note): NELAP - Florida: State - South Carolina: State Program	   	Job #:	Job #:	
Address: 13715 Rider Trail North.	Due Date Requested: 3/27/2023	ed:					Aleak	Analysis Doggod	potaon		Presen	l g	
City:	TAT Requested (days):	ays):					-		Descen		A - HCL B - NaOH	ı	M - Hexane N - None
State Zip MO, 63045	T										C - Zn Acetate D - Nitric Acid E - NaHSO4		0 - AsnaO2 P - Na2O4S Q - Na2SO3
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	# Od				(						F - MeOH G - Amchlor		R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email	#OM				(0)	СР				14-14		Acid	U - Acetone V - MCAA
Project Name: 125915/JM02.09.G01.1/36500	Project #: 68008190			1	f 10. at	ıw pλ ı							W - pH 4-5 Y - Trizma Z - other (specify)
Site	SSOW#:					14317 9					Other:		
			Sample	Matrix	W/SW U	PS_A010					) 1edmi		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	C=comp, G=qrab)	S=solid, O=waste/oil, BT=Tissue, A=Air	mořie	05/Q010D/30					uN lebo	- Cicoca	
	X	X	Preserva	Preservation Code:	-							pecial IIIsu	uctions/Note:
AF56394 (680-232196-1)	2/14/23	12:33 Eastern		Water		×					-		
AF56331 (680-232196-2)	2/14/23	13:51 Eastern		Water		×					-		
AF56332 (680-232196-3)	2/14/23	15:22 Eastern		Water		×					-		
AF56395 (680-232196-4)	2/15/23	11:36 Eastern		Water		×					-		
AF56396 (680-232196-5)	2/15/23	13:21 Eastern		Water		×					-		
AF56397 (680-232196-6)	2/16/23	10:53 Eastern		Water		×					-		
AF56400 (680-232196-7)	2/16/23	12:55 Eastern		Water		×					-		
AF56442 (680-232196-8)	2/16/23	14:07 Eastern		Water		×					1		
AF56443 (680-232196-9)	2/16/23	14:12		Water		×					-		

river. Since abundons are subject to change, Euforms Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/maintx being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC. Possible Hazard Identification

				Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	samples are retained longer than 1	nonth)
	Unconfirmed			Return To Client Disposal By Lab	Lab Archive For	Months
	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1		Requ	ı	
	Empty Kit Relinquished by:	Date:	111	Time: Method	Method of Shipment:	
	Relinquished by:	Date/Time:	Company	Received by.	Date/Time:	Company
3/	Relinquished by.	Date/Time:	Company	Received by	Date/Time:	Company
28/	Relinquished by:	Date/Time:	Company	Received by:	Date/Time. CC/CS C710 6-745 7	Company
2023	Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) <sup>o</sup> C and Other Remarks:		

# Chain of Custody Record

Seurofins Environment Testing	Carrier Tracking No(s) COC No: 1680-731060.2	State of Origin: South Carolina
Chain of Custody Record	Sampler. Lanier, Jerry A	Phone. E-Mait. Jerry Lanier@et eurofinsus.com
Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165	prmation (Sub Contract Lab)	Client Contact Shipping/Receiving

	Sampler			I ah PM			C	Openior Teacher 11 / 12	000		
Client Information (Sub Contract Lab)				Lanier,	Lanier, Jerry A			(c)ON Brayes	680-731060.2	360.2	
Culant contact Shipping/Receiving	Phone			E-Mail: Jerry.L	anier@e	E-Mail: Jerry.Lanier@et.eurofinsus.com		State of Origin: South Carolina	Page: Page 2 of 5	f 5	
Company: TestAmerica Laboratories, Inc.				₹Z	creditation	Accreditations Required (See note) NELAP - Florida: State - Soi	uth Carolina	Program	Job #:	90	
Address: 13715 Rider Trail North,	Due Date Requested: 3/27/2023						Analysis Requested		Preservat	မ္မီ	
City Earth City State Zio	TAT Requested (days):								A - HCL B - NaOH C - Zn Acetate		M - Hexane N - None O - AsNaO2 P - Na2O4S
MO, 63045 Phone:	# C a				1810				D - Nitric A E - NaHSO F - MeOH		Q - Na2SO3 R - Na2S2O3
314-298-8566(Tel) 314-298-8757(Fax)				(0					G - Amchlor H - Ascorbic Acid	7	S - H2SO4 T - TSP Dodecahydrate
Email	# OM			N: 10	(0)				and the last of	2	U - Acetone V - MCAA
Project Name 125915/JM02.09.G01.1/36500	Project #: 68008190			29Y) 9	A 10 SE						W - pH 4-5 Y - Trizma Z - other (specify)
Site	SSOW#:			Idmes	SD (A				other:		
Samula Identification - Client ID 11 at 101				Matrix (w-water, Smolld, O-waterioll,	MISM mothe				sedimuM listo		
	Sample Date		Preservation Code:	-	d X					ecial Instru	Special Instructions/Note:
AF56402 (680-232196-10)	2/27/23		3	Water	×				-		
AF56403 (680-232196-11)	2/27/23	09:57 Eastern	3	Water	×				-		
AF56404 (680-232196-12)	2/27/23 E	10:02 Eastern	3	Water	×				-		
AF56434 (680-232196-13)	2/27/23 E	15:44 Eastern	8	Water	×				-		
AF56433 (680-232196-14)	2/28/23 E	12:58 Eastern	<b>M</b>	Water	×				-		
AF56435 (680-232196-15)	2/28/23 E	11:44 Eastern	>	Water	×						
AF56436 (680-232196-16)	2/28/23 E	10:19 Eastern	3	Water	×				1		
AF56437 (680-232196-17)	2/28/23 E	10:24 Eastern	>	Water	×				-		
AF56438 (680-232196-18)	2/28/23 E	14.31 Eastern	8	Water	×				1		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory. This sample shipment is forwarded under chain-of-custody. If the laboratory or other instructions will be provided. Any changes to accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.	ment Testing Southeast, LLC ; analysis/tests/matrix being ar ention immediately. If all requ	places the own nalyzed, the sar ested accredita	ership of method mples must be sl itions are current	analyte & a lipped back to date, retu	ccreditatio to the Euro rn the sign	n compliance u ofins Environmed Chain of Cu	C places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation quested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.	es. This sample shi oratory or other instr ince to Eurofins Envi	oment is forwarded und uctions will be provided ronment Testing South	der chain-of-cu d. Any change neast, LLC.	ustody. If the laboratory es to accreditation
Possible Hazard Identification					Sample	Disposal (	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	d if samples are	retained longer	than 1 mor	nth)
Unconfirmed						Return To Client	ient Disposal By Lab	By Lab	Archive For		Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable	ble Rank: 1			Special	Instructions	Special Instructions/QC Requirements:				
Empty Kit Relinquished by:	Date	te:			Time:		Me	Method of Shipment:			
Relinquished by	Date/Time:		Сотрапу	ý	Rece	Received by:		Date/Time:		Co	Сомрапу
Relinquished by: F€D€×	Date/Time		Company	ν	Reg	Received by:	sharpey -	Date/Time:	3/11/13 0	Collo	Company
	Date/Time:		Company	'n	Rece	Received by:		Date/Time:			Company
Custody Seals Intact: Custody Seal No. Δ Yes Δ No					Coo	er Temperature	Cooler Temperature(s) °C and Other Remarks:				
					$\frac{1}{1}$						

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Chain of Custody Record

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165

	Sampler			Lab PM:			Carrier Tracking No(s)	a No(s):	COC No.	
Client Information (Sub Contract Lab)	ē			Lanier, Jerry A	erry A				680-731060.3	
Cirent Contact. Shipping/Receiving	Phone			E-Mail: Jerry.Lal	nier@et.e	E-Mail: Jerry.Lanier@et.eurofinsus.com	State of Origin: South Carolina	ina	Page: Page 3 of 5	
Company: TestAmerica Laboratories, Inc.				Acc NE	editations F LAP - Flo	Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program	lina: State Prod	ram	Job #:	
Address. 13715 Rider Trail North,	Due Date Requested: 3/27/2023					Analysis Requested	eanested		Preservation Codes	
City: Farth City	TAT Requested (days):								A - HCL B - NaOH	M - nexane N - None
State Zip MO, 63045									C - Zn Acetate D - Nitric Acid	O - AsnaO2 P - Na2O4S Q - Na2SO3
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	# Od			(	900				F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4 T - TSP Dodecahvdrate
Email:	# OM			ON 10	-					U - Acetone V - MCAA
Project Name. 125915/JM02.09.G01.1/36500	Project #: 68008190			S9/)/8					K-EDTA L-EDA	W - pH 4-5 Y - Trizma Z - other (specify)
Site:	#MOSS			dms					Other:	
Sample Identification . Client ID (1 sh ID)		Sample (C	Sample Market Type Sample Careempt Care	Matrix (www.ter. Smoolid. Oww.estaloid.	M/2M mrofts				sedmulf late	
	\\				-					Special Instructions/Note:
AF56409 (680-232196-19)	3/6/23	12:14 Fastern	3	Water	×				1-	
AF56410 (680-232196-20)	3/6/23	12:19 Fastern	3	Water	×				1	
AF56411 (680-232196-21)	3/6/23	11:08 Eastern	3	Water	×					
AF56412 (680-232196-22)	3/6/23	15:15 Eastern	8	Water	×				1	
AF56413 (680-232196-23)	3/6/23	13:41 Eastern	3	Water	×				-	
AF56430 (680-232196-24)	3/6/23	10:10 Eastern	*	Water	×					
AF56406 (680-232196-25)	3/9/23	10:29 Eastern	*	Water	×					
AF56407 (680-232196-26)	3/9/23	10:34 Eastern	8	Water	×				-	
AF56418 (680-232196-27)	3/9/23	12:07 Eastern	*	Water	×				-	
Note. Since laboratory accreditations are subject to change. Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This samples thingen to form analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation in the Status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.	nt Testing Southeast, LLC nalysis/tests/matrix being a ion immediately. If all req	places the owr analyzed, the sa sested accredit	iership of method imples must be st ations are current	analyte & accipped back to to date, return	reditation of the Eurofir	compliance upon our subcontribers is Environment Testing South (Chain of Custody attesting to	act laboratories. The sast, LLC taboratory said compliance to	us sample shipmen y or other instruction Eurofins Environm	it is forwarded under chair ns will be provided. Any c ent Testing Southeast, LL	-of-custody. If the laboratory hanges to accreditation C.
Possible Hazard Identification					Sample L	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	assessed if s	amples are ret	ained longer than 1	month)
Unconfirmed					Ref	Return To Client	Disposal By Lab	op qe	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverabl	le Rank: 1		٥	Special In	Special Instructions/QC Requirements	ents:			Silver
Empty Kit Relinquished by:		ate:		Time	ا ده		Method of	Method of Shipment:		
Relinquished by:	Date/Time:		Company	'n	Received by	.kg pe		Date/Time		Company
Relinquished by: F206X	Date/Time:		Company	) h	Received by	eceived by:	7	Date/Time:	125/28 0910	Company
	Date/Time		Сомрапу	λυ	Received by:	2	00	Date/Time:	3	Company
Custody Seals Infact: Custody Seal No.:					Cooler	Cooler Temperature(s) °C and Other Remarks:	Remarks:			

**Eurofins Savannah** 5102 LaRoche Avenue

5102 LaRoche Avenue		Chain	مال ال	pin of Custody Docord										
Savannah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165				rody N		5						<b>.</b>		Environment Testing
Client Information (Sub Contract Lab)	Sampler			Lab PM: Lanier,	Lab PM: Lanier, Jerry A	<			Carrier	Carrier Tracking No(s)	÷	COC No: 680-731060.4	60.4	
Client Contact: Shipping/Receiving	Phone:			E-Mail Jerry	Lanier	get.euro	E-Mail: Jerry.Lanier@et.eurofinsus.com	٤	State o	State of Origin: South Carolina		Page Page 4 of 5	15	
Company. TestAmerica Laboratories, Inc.					Accredita NELAP	tions Requ	Accreditations Required (See note) NELAP - Florida; State - Soi	ote): South Car	olina: Stat	Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program		Job #:	1-96	
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/27/2023	.pe					₹	Analysis Requested	Sequest	pe		Preservati	ego.	
City. Earth City State, Zip.: No. GRADA.	TAT Requested (days):	ays):										A - HCL B - NaOH C - Zn Acetate D - Nitric Acid		ane ao 2 24 S
74-298-8566(Tel) 314-298-8757(Fax)	#O4				- (							F - NATION F - MeOH G - Amchlor	:	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrale
Email	*OM				(0)	СР						I - Ice J - Di Water		one A
Project Name. 125915/JM02.09.G01.1/36500	Project #: 68008190				s or h	w pλ į								W - pH 4-5 Y - Trizma 7 - other (cooolie)
Site	**NOSS				ed (xe	niusia s					_	of cont		(Speeds)
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp, G=grab)	Matrix (w-water, S-solid, O-waste/olf,		.S_A0105\Q0108						tedmul/listo		
	X	X	Preserva	Preservation Code:	X							L	acidi mistrucio	IIS/NOTE:
AF56422 (680-232196-28)	3/9/23	13:19 Fastern		Water		×						1-		
AF56419 (680-232196-29)	3/7/23	14:51 Eastern		Water		×						-		
AF56425 (680-232196-30)	3/7/23	12:49 Eastern		Water		×					_	-		
AF56426 (680-232196-31)	3/7/23	10:22 Eastern		Water		×						1		
AF56427 (680-232196-32)	3/7/23	10:27 Eastern		Water		×						-		
AF56408 (680-232196-33)	3/8/23	13:38 Eastern		Water		×						-		
AF56415 (680-232196-34)	3/8/23	15:13 Eastern		Water		×						1		
AF56416 (680-232196-35)	3/8/23	10:09 Eastern		Water		×						1		
AF56417 (680-232196-36)	3/8/23	10:14		Water		×					L			

Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compilance to Eurofins Environment Testing Southeast, LLC. Possible Hazard Identification

					demplo disposal (A ree may be assessed it samples are retained longer than 1 month)	ed II samb	les are retained longer than 1	month)
	Unconfirmed				Return To Client Disposal By Lab	al By Lab	Archive For	Months
	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	rable Rank: 1		Requ			Simoling
	Empty Kit Relinquished by:		Date:	-	Time:	Method of Shipment	nent	
	Relinquished by:	Date/Time:		Company	Received by:	Date	Date/Time:	Сотрапу
3	Relinquished by:	Date/Time.		Company	Received by:	Date	Date/Time / /	Company
3/28	Relinquished by:	Date/Time:		Company	Received by:	Dat	Date/Time: \$22/23 0110 67ASTC	Company
/2023	Custody Seals Intact: Custody Seal No.				Cooler Temperature(s) <sup>o</sup> C and Other Remarks:			

Ver: 06/08/2021

ETASTI

3/22/23 0910

Date/Time:

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Received by eceived by:

Company

Date/Time Date/Time

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telinquished by dinquished by yd peysinbu Custody Seal No.

Custody Seals Intact: △ Yes △ No

Ime

eceived by

Date/Time

Company Company

Cooler Temperature(s) °C and Other Remarks.

Chain of Custody Record

Phone: 912-354-7858 Fax: 912-352-0165

Savannah, GA 31404 5102 LaRoche Avenue

**Eurofins Savannah** 

**Environment Testing** 

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T - TSP Dodecahydrate

U - Acetone V - MCAA W - pH 4-5

N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4

Z - other (specify)

Special Instructions/Note:

Preservation Codes: COC No 680-731060.5 G - Amchlor H - Ascorbic Acíd 680-232196-1 A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH Page: Page 5 of 5 I - Ice J - Di Water K - EDTA L - EDA Total Number of containers Carrier Tracking No(s) State of Origin: South Carolina Accreditations Required (See note).
NELAP - Florida; State - South Carolina; State Program **Analysis Requested** Jerry Lanier@et.eurofinsus.com Lab PM: Lanier, Jerry A 6010D/3010A\_2% Lithium by ICP × × × × × × × × Perform MS/MSD (Yes or No) BT=Tissue, A=Air (W=water, S=solid, O=waste/oil, Preservation Code: Water Matrix Water Water Water Water Water Water Water Type (C=comp, G=grab) Sample Eastern 13.37 Eastern 10:22 Eastern 11:45 Eastern 12:46 Eastern 14.41 Eastern 10:56 Eastern Eastern 12:12 (AT Requested (days) Due Date Requested: 3/27/2023 Sample Date 3/8/23 3/1/23 Project #: 68008190 3/1/23 3/1/23 3/1/23 3/2/23 3/2/23 3/2/23 Phone # ON Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) 314-298-8757(Fax) FestAmerica Laboratories, Inc. 125915/JM02.09.G01.1/36500 AF56441 (680-232196-41) AF56428 (680-232196-44) AF56428 (680-232196-39) AF56439 (680-232196-40) AF56423 (680-232196-43) AF56429 (680-232196-37) AF56421 (680-232196-38) AF56414 (680-232196-42) 13715 Rider Trail North 314-298-8566(Tel) Shipping/Receiving State, Zip: MO, 63045 Earth City

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation our subcontract laboratory or other instructions will be provided. Any changes to accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC. Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Archive For Method of Shipment: Disposal By Lab Special Instructions/QC Requirements Return To Client Primary Deliverable Rank Deliverable Requested: I, II, III, IV, Other (specify) Possible Hazard Identification Empty Kit Relinquished by Unconfirmed

# Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-232196-1

Login Number: 232196 List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey</td <td>N/A</td>	N/A
meter.	19// 1
The cooler's custody seal, if present, is intact.	True
Sample custody seals, if present, are intact.	True
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
Is the Field Sampler's name present on COC?	True
There are no discrepancies between the containers received and the COC.	True
Samples are received within Holding Time (excluding tests with immediate HTs)	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
Sample Preservation Verified.	True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Residual Chlorine Checked.	N/A

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### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-232196-1

Login Number: 232196
List Source: Eurofins St. Louis
List Number: 2
List Creation: 03/22/23 01:44 PM

Creator: Sharkey-Gonzalez, Briana L

Creator: Sharkey-Gonzalez, Briana L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	
s 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 <a href="mailto:smm">&lt;6mm</a> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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### **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-232196-1

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

### **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	12-08-23
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
lowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
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 Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
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	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
- Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

Eurofins Savannah

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 $<sup>{}^{\</sup>star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$ 



# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 4/24/2023 3:13:36 PM

# **JOB DESCRIPTION**

125915/JM02.09.G01.1/36500

# **JOB NUMBER**

680-233704-2

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **Eurofins Savannah**

### **Job Notes**

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

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

### **Authorization**

Generated 4/24/2023 3:13:36 PM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Laboratory Job ID: 680-233704-2

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### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

Job ID: 680-233704-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233704-2

### Receipt

The samples were received on 4/18/2023 10:00 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 16.4°C

### Metals

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

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## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

680-233704-11 AF60586 GW 04/10/23 12:25 04/18/23 10:00 680-233704-12 AF60587 GW 04/10/23 09:58 04/18/23 10:00	Lab Sample ID 680-233704-10	Client Sample ID AF60585	Matrix GW	Collected 04/10/23 12:20	Received 04/18/23 10:00
	680-233704-12 680-233704-13	AF60587 AF60588	GW	04/10/23 09:58 04/10/23 11:04	04/18/23 10:00 04/18/23 10:00

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## **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	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

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## **Definitions/Glossary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

### **Qualifiers**

B A	1 - 4	4 -	
IV/I	Ο.	га	ls

Qualifier **Qualifier Description** 

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 MLMinimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC** 

4/24/2023

### **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF60585

Job ID: 680-233704-2

Lab Sample	ID:	680-233704-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	89.3		3.00		ug/L	1	_	6020B	Total
									Recoverable
Barium	136		5.00		ug/L	1		6020B	Total
									Recoverable
Calcium	95700		500		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.570		0.500		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF60586 Lab Sample ID: 680-233704-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	94.8		3.00		ug/L	1	_	6020B	Total
									Recoverable
Barium	130		5.00		ug/L	1		6020B	Total
									Recoverable
Calcium	94800		500		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.535		0.500		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF60587 Lab Sample ID: 680-233704-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	229		5.00		ug/L	1	_	6020B	Total
									Recoverable
Beryllium	1.00		0.500		ug/L	1		6020B	Total
									Recoverable
Calcium	75200		500		ug/L	1		6020B	Total
									Recoverable
Cobalt	17.7		0.500		ug/L	1		6020B	Total
									Recoverable
Lead	3.09		2.50		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF60588 Lab Sample ID: 680-233704-13

Analyte	Result Qua	lifier RL	MDL Unit	Dil Fac	D Method	Prep Type
Barium	34.4	5.00	ug/L	1	6020B	Total
						Recoverable
Calcium	576000	5000	ug/L	10	6020B	Total
						Recoverable
Cobalt	7.19	0.500	ug/L	1	6020B	Total
						Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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

Client Sample ID: AF60585

Result Qualifier

5.00

89.3

Lab Sample ID: 680-233704-10 Matrix: GW

Job ID: 680-233704-2

Date Collected: 04/10/23 12:20 Date Received: 04/18/23 10:00

Analyte

Antimony

Arsenic

Barium

MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ug/L	_	04/20/23 05:28	04/20/23 17:16	1
	ug/L		04/20/23 05:28	04/20/23 17:16	1
	ug/L		04/20/23 05:28	04/20/23 17:16	1
	ug/L		04/20/23 05:28	04/20/23 17:16	1

136 0.500 U Beryllium 0.500 Cadmium 0.500 U 0.500 ug/L 04/20/23 05:28 04/20/23 17:16 Calcium 95700 500 ug/L 04/20/23 05:28 04/20/23 17:16 Chromium 5.00 U 5.00 ug/L 04/20/23 05:28 04/20/23 17:16 0.500 04/20/23 05:28 04/20/23 17:16 Cobalt 0.570 ug/L 2.50 U 2.50 ug/L 04/20/23 05:28 04/20/23 17:16 Selenium 2.50 U 2.50 ug/L 04/20/23 05:28 04/20/23 17:16 Thallium 1.00 U 1.00 ug/L 04/20/23 05:28 04/20/23 17:16

RL

5.00

3.00

5.00

Method: SW846 7470A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200	ug/L		04/20/23 17:02	04/21/23 13:59	1		

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-233704-11

Matrix: GW

Job ID: 680-233704-2

**Client Sample ID: AF60586** Date Collected: 04/10/23 12:25

Date Received: 04/18/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
Arsenic	94.8		3.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
Barium	130		5.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Calcium	94800		500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
Cobalt	0.535		0.500		ug/L		04/20/23 05:28	04/20/23 17:21	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:21	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:21	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:21	1
- Method: SW846 7470A	- Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 14:04	1

Eurofins Savannah

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-233704-12

Matrix: GW

Job ID: 680-233704-2

Client Sample ID: AF60587 Date Collected: 04/10/23 09:58

Date Received: 04/18/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
Arsenic	3.00	U	3.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
Barium	229		5.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
Beryllium	1.00		0.500		ug/L		04/20/23 05:28	04/20/23 17:25	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:25	1
Calcium	75200		500		ug/L		04/20/23 05:28	04/20/23 17:25	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
Cobalt	17.7		0.500		ug/L		04/20/23 05:28	04/20/23 17:25	1
Lead	3.09		2.50		ug/L		04/20/23 05:28	04/20/23 17:25	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:25	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:25	1
- Method: SW846 7470A -	Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		04/20/23 17:02	04/21/23 14:06	

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12

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

Analyzed

04/21/23 14:07

Prepared

04/20/23 17:02

Lab Sample ID: 680-233704-13

Matrix: GW

Client Sample ID: AF60588 Date Collected: 04/10/23 11:04

Date Received: 04/18/23 10:00

Analyte

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
Arsenic	3.00	U	3.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
Barium	34.4		5.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:29	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 17:29	1
Calcium	576000		5000		ug/L		04/20/23 05:28	04/21/23 11:13	10
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 17:29	1
Cobalt	7.19		0.500		ug/L		04/20/23 05:28	04/20/23 17:29	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:29	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 17:29	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 17:29	1

RL

0.200

MDL Unit

ug/L

Result Qualifier

0.200 U

Dil Fac

12

13

Job ID: 680-233704-2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-774333/1-A

Client Sample ID: Method Blank

Matrix: Water Prep Type: Total Recoverable
Analysis Batch: 774617 Prep Batch: 774333

Analysis Batch: 774617 Prep Batch: 774333

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Arsenic	3.00	U	3.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Barium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Beryllium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Cadmium	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Calcium	500	U	500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Chromium	5.00	U	5.00		ug/L		04/20/23 05:28	04/20/23 16:16	1
Cobalt	0.500	U	0.500		ug/L		04/20/23 05:28	04/20/23 16:16	1
Lead	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 16:16	1
Selenium	2.50	U	2.50		ug/L		04/20/23 05:28	04/20/23 16:16	1
Thallium	1.00	U	1.00		ug/L		04/20/23 05:28	04/20/23 16:16	1

Lab Sample ID: LCS 680-774333/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total Recoverable

Analysis Batch: 774617 Prep Batch: 774333

Alialysis batch. 114011							Fieb Date	JII. 114333
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	50.0	56.78		ug/L		114	80 - 120	
Arsenic	100	111.2		ug/L		111	80 - 120	
Barium	100	106.3		ug/L		106	80 - 120	
Beryllium	50.0	54.86		ug/L		110	80 - 120	
Cadmium	50.0	55.87		ug/L		112	80 - 120	
Calcium	5000	5504		ug/L		110	80 - 120	
Chromium	100	113.4		ug/L		113	80 - 120	
Cobalt	50.0	53.95		ug/L		108	80 - 120	
Lead	500	522.7		ug/L		105	80 - 120	
Selenium	100	108.4		ug/L		108	80 - 120	
Thallium	50.0	52.38		ug/L		105	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-774521/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 774740 Prep Batch: 774521

 Analyte
 Result Mercury
 Qualifier
 RL N. 200
 MDL Unit Ug/L
 D Prepared N4/20/23 17:02
 Analyzed Dil Fac Nalyzed Nalyzed Dil Fac Nalyzed Nalyz

Lab Sample ID: LCS 680-774521/2-A

Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA Analysis Batch: 774740 Prep Batch: 774521

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Mercury 2.50 2.439 ug/L 98 80 - 120

4/24/2023

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

### Metals

Prep Batch: 774333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total Recoverable	GW	3005A	
680-233704-11	AF60586	Total Recoverable	GW	3005A	
680-233704-12	AF60587	Total Recoverable	GW	3005A	
680-233704-13	AF60588	Total Recoverable	GW	3005A	
MB 680-774333/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774333/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 774521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total/NA	GW	7470A	
680-233704-11	AF60586	Total/NA	GW	7470A	
680-233704-12	AF60587	Total/NA	GW	7470A	
680-233704-13	AF60588	Total/NA	GW	7470A	
MB 680-774521/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774521/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 774617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total Recoverable	GW	6020B	774333
680-233704-11	AF60586	Total Recoverable	GW	6020B	774333
680-233704-12	AF60587	Total Recoverable	GW	6020B	774333
680-233704-13	AF60588	Total Recoverable	GW	6020B	774333
MB 680-774333/1-A	Method Blank	Total Recoverable	Water	6020B	774333
LCS 680-774333/2-A	Lab Control Sample	Total Recoverable	Water	6020B	774333

Analysis Batch: 774740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-10	AF60585	Total/NA	GW	7470A	774521
680-233704-11	AF60586	Total/NA	GW	7470A	774521
680-233704-12	AF60587	Total/NA	GW	7470A	774521
680-233704-13	AF60588	Total/NA	GW	7470A	774521
MB 680-774521/1-A	Method Blank	Total/NA	Water	7470A	774521
LCS 680-774521/2-A	Lab Control Sample	Total/NA	Water	7470A	774521

Analysis Batch: 774895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233704-13	AF60588	Total Recoverable	GW	6020B	774333

Job ID: 680-233704-2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF60585** Date Collected: 04/10/23 12:20

Lab Sample ID: 680-233704-10

Matrix: GW

Date Received: 04/18/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:16
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 13:59

Client Sample ID: AF60586

Lab Sample ID: 680-233704-11

Matrix: GW

Date Collected: 04/10/23 12:25 Date Received: 04/18/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:21
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 14:04

**Client Sample ID: AF60587** 

Lab Sample ID: 680-233704-12

Matrix: GW

Date Collected: 04/10/23 09:58 Date Received: 04/18/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:25
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 14:06

Client Sample ID: AF60588	Lab Sample ID: 680-233704-13
Date Collected: 04/10/23 11:04	Matrix: GW
Date Received: 04/18/23 10:00	

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		1	774617	BWR	EET SAV	04/20/23 17:29
Total Recoverable	Prep	3005A			774333	RR	EET SAV	04/20/23 05:28
Total Recoverable	Analysis	6020B		10	774895	BWR	EET SAV	04/21/23 11:13
Total/NA	Prep	7470A			774521	JKL	EET SAV	04/20/23 17:02
Total/NA	Analysis	7470A		1	774740	JKL	EET SAV	04/21/23 14:07

**Laboratory References:** 

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

Santee Cooper One Riverwood Drive Moneke Corner, SC 29946 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 125915 / JMOZ.09.601.1/ 36500 Yes (No @santeecooper.com Analysis Group Labworks ID# Sample Location/ Comments TOTAL METALS Collection Time (Internal use Description Collection Date Method # Sample Collector Matrix(see belo Bottle type: (Gla G/Plastic-P) only) Reporting limit Total # of conta Grab (G) or Composite (C) Misc. sample info Any other notes ZOM Hg-7470 2 6 GW X AF 60585 WAP-27 1220 4/10/23 BWM ALL OTHERS 6020. 1225 WAP - 27D 86 PLEASE REFER TO SHEET WAP - 28 87 0958 FOR RLS. 88 WAP - 29 1104 \* PLEASE RETURN COCLER. Sample Receiving (Internal Use Only) Relinquished by: Employee# Time Received by: Employee # Date Time Date TEMP (°C):\_ Initial: 418.23 1000 35594 4/17/23 m Sambun 1300 Correct pH: Yes Relinquished by: Employee# Date Time Received by: Employee # Date Time Preservative Lot#: Relinquished by: Employee# Date Time Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) Gypsum Nutrients MISC. Coal Oil Flyash Trans, Oil Qual. %Moisture Color □ Ag X Sb X Se □ Cu DTOC DBTEX ☐ Wallboard □ Ultimate C Ammonia D AI □ Fe Gypsum(all □ Napthalene DDOC ☐ % Moisture 0101 DTHM/HAA XAs DК □ Sn □ TP/TPO4 below) □ Ash 0 % Carbon DVOC □ NH3-N O AIM □ Sulfur O Li □ Sr ☐ Mineral  $\Box$  B □ Oil & Grease DITOC OF □ BTUs Analysis DE, Coli ☐ Total metals
☐ Soluble Metals **⊠**,Ba □ Mg O Ti □ Volatile Matter □ Sieve Dissolved Gases U CI ☐ Total Coliform X Be □ Mn M TI D NO2 O CHN □ % Moisture Used Oll Hall ☐ Purity (CaSO4) Other Tests: Flashpoint Metals in oil (As,Cd,Cr,N),Pb ☐ Dissolved As D Br ☐ % Moisture X Ca □ Mo OV □ Dissolved Fe □ NO3 ☐ Sulfites NPDES XX,Cd □ Na □ Zn D Red 226 D HGI □ SO4 □ pH □ Oil & Grease Hg) ☐ Rad 228 □ Chlorides O Fineness X Co KHg O Ni ☐ Particulate Matter GOFER □ PCB Particle Size DISS 'S.Pb □ CrVI X Cr

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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	uġ/L	100	5	
Cobalt	ug/L	6	0.5	
Copper	mg/L	1	122	
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		7	
Thallium	ug/L	2	1	
Zinc	ug/L	5000	-	

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

# **Chain of Custody**

Custo	mer Email	l/Rep	ort Recipi	ent:	D	ate R	esults Ne	eded b	y:		Pr	oject/	Task/l	Unit #: Rerun request for any flagged Q	C
LC	ALLIIW		@santeed	cooper.com		/	//.			125	9]5	<u> </u>	02.6	8.G81.5/36500 Yes No	
														Analysis Group	
	orks ID # nal use		nple Locatio cription	on/	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	_
AF6	0141	GG	-SMW-	4	4/6	1/23	11 38	ZDM BWM		P	G	GW	2	METHOD 6020 X	
	42		}	5			1300				1			PLEASE REFER TO SHEET	
	43			6			[033							FOR MLS.	
	44	_		9		_	1223	I			1	1	L	* PLEASE RETURN	_
4F6	0138			1	4/=	1/23	[033		1	1		1	)	COCLER.	
	39			2			1144								
	40			3	L		1403								
	45			10			1320								
	46	-	<u></u>	11	<u> </u>	-	1226					_			
														680-233704 Chain of Custody	
Reli	nquished by:		Employee#	Date	Tim		Receiv	ed hv:	- F	mployee	#	Date		Sample Receiving (Internal Use Only)	-
87m			35594	4/17/23	130		AIL			M		18-23		TEMP (°C): /5 .*/ Initial:	-
	nquished by:		Employee#	Date	Tim		Receive	ed by:		mployee		Date	/	Time Correct pH: Yes No	
					NC-20-20					*****				Preservative Lot#:	- Constitution
Reli	nquished by:		Employee#	Date	Tim	e	Receiv	ed by:	1	mployee	#	Date		Time	
	and the second of the second o													Date/Time/Init for preservative:	
			LS (all)	Nuti	ient	S	MIS	iC.		Gy	psun	<u>n</u>		<u>Coal</u> <u>Flyash</u> <u>Oil</u>	
□ Ag □ Al	为这 知Fe		□ Sb >≰ Se	D TO			D BTEX	-portono	∦ c	Wallbo			0	Ultimate	
X As			□ Sn	DO			☐ Napthale ☐ THM/HA			Gyp belo	sum(a w)	11	1	☐ % Moisture ☐ LOI ☐ % Moisture ☐ Color ☐ Color	
□B	O Li		□ Sr	□NH			□ VOC □ Oil & Gr	ease	1	D AL				☐ Sulfur ☐ Mineral Acidity	
Χβa		***	□ Ti				□ E. Coli			□ To	tal meta			□ BTUs Analysis IF I □ Volatile Matter □ Sieve Dissolved Gases	
□Ве	ΩМ	n	ЖTI	□ NO.	2		☐ Total Col				luble Mo rity (Cal			☐ CHN ☐ % Moisture Used Oil	
□ Ca	ОΜ	0	ŪV	□ Br	1		☐ Dissolved				Moistur			ther Tests: Flashpoint	STEEL STORY
⋉Cd	□ Na	ì	∑Zn	□ SO4			□ Rad 226	9-8-¥		Hg 🔾			o I	HGI (As, Cd, Cr, Ni, Pb	W. S.
□Со			□Hg				☐ Rad 228 ☐ PCB				lorides ticle Siz	e.		Fineness Dil & Gresse Hg) Particulate Matter D As 1X	
⊠ Cr	≱Pb	)	☐ CrVI				Halpita			() Sulfur			1	□TSS 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=H<sub>2</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (S

\_\_ Contract Lab Due Date (Lab Only).

Santee cooper

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

Custo	omer Emai	I/Repo	ort Recipie	ent:	D	Date Results Needed by:			Project/Task/Unit #: Reru					Rerun re	run request for any flagged QC					
LC	WILLIA		@santeec	ooper.com		/	·/_			1250	115	/ JM	02.0	9.6¢1.1	J_365∞	Yes ①	19			
																		lysis G	iroup	)
	rorks ID # rnal use		ple Locatio cription	<b>n/</b>	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	Met     Rep     Mis     Any	Comments hod # orting limit c. sample info other notes		SEE BELOW			
AT	60585	WA	P-27		4/1	0/23	1220	ZDM BWM	l	Р	G	GW	2	Hg-7	470		x			
1	86	WA	P-27D			<u> </u>	1225	ļ	1	1	1	1		ALL OTH	HERS 6020.				1	
	87	WA	P-28				e958							PLEASE FOR RLS	REFER TO SHE	E	$\prod$			
I	88	WA	P~29			_	1104	1					1					T	1	
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			**************************************										······································				1		$\dagger$	
											* 1				Sample Receiving (Int	ernal Use	Only)			
	inquished by:		imployee#	Date	Tim		Receiv	ed by:	E	mployee		Date		Time	TEMP (°C):	In	itial:_		-	
	ಚರ್ಚು inquished by:		5594 imployee#	4/17/23 Date	30 Tim		Receive	ad by	-	M		Date		1000	Correct pH: Yes	No				
1350	indamica oti	•	mbokeem	Pare	. 19111	-	neuciv	eu by.	1 8	mployee	*	Date		Time	Preservative Lot#:					
D-11							<b>K</b>					***		-						
Vali	nguished by:		mployee#	Date	Tim		Receiv	eo bys	-   "	mployee	*	Date		Time	B-1-17-11-1-1-1					
															Date/Time/Init for pr	reservativ	/e:			
			S (all)	Nuti	<u>rien</u> t	<u>s</u>	MIS	ic.		Gy	psur	Δ		Coal	Flyash			Oil		
□ Ag		CONTRACTOR OF THE PERSON NAMED IN	X Sb X Se	□ TO			□ BTEX	and and dis	٥	Wallbo	ard			Ultimate	☐ Ammonia	10	Trans.		ual.	
≱As		************	□ Sn	DO			<ul><li>□ Napthale</li><li>□ THM/HA</li></ul>				sum( <i>a</i>	11		□ % Moist	ure 🛮 LOI		□ %M □ Cole		r	
<u> </u>				□ TP/			□ VOC	****		belo □ AI				□ Ash □ Sulfur	☐ % Carbon ☐ Mineral		Acid	ity		
□ B	OL	-	□ Sr	OF	•		□ Oil & Gr □ E. Coli	ease		□ TO	C	lo.		□ BTUs	Analysi		⊖Diele ⊝IFT	etric St	rength	
⊠Ba			□ Ti	D C1			☐ Total Col	liform			al meta uble M			□ Volatile	Matter ☐ Sieve		Diss		Gase	5
⊠,Be	1		ΧTI	□ NO □ Br	2		□ pH □ Dissolved	l Ao		🛛 Put	ity (Ca	SO4)	6	☐ CHN ther Tests:	□ % Moistur		Used			
XXI Ca		2 110 110 cres 10	υV	□ NO	3		□ Dissolved			□ % ! □ Sul	Moistur fites	e.		XRF Scan	NPDES		Flasi Meta	ls in c	il	
X,Cd	ΟN	a	□ Zn	□ SO <sub>4</sub>			□ Rad 226 □ Rad 228			□pH			ים 🏻	HGI	□ Oil & Grease		(As, Hg)	Cd,Cr	,Ni,P	b
<b>⊠</b> C₀			β(Hg				□ Rad 228 □ PCB				orides ticle Siz	.e		Fineness Particulate Mi	ntter 🗆 🗅 As		TX			
XX Cr	)≱⊈.Pt	)	□ CrVI							3 Sulfur				-	D TSS		GOFE	R		

Table of Reporting Limits for Groundwater Samples-- Metals Only

Samp	ies ivietai	5 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	uġ/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	
Iron	ug/L	300	
Lead	ug/L	15	
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	H

## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-233704-2

Login Number: 233704 List Source: Eurofins Savannah

List Number: 1

Creator: Daughtry, Beth A

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

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-233704-2

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

\_3

4

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9

11

12





gel.com

August 11, 2023

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

Re: ABS Lab Analytical Work Order: 629286

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 14, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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: 629286 GEL Work Order: 629286

### 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.

	Julia	Kni
Reviewed by		

Page 2 of 25 SDG: 629286

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

Certificate of Analysis

Project:

Client ID:

Report Date: August 11, 2023

SOOP00119

SOOP001

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: AF68757 Sample ID: 629286001

Matrix: GW

Collect Date: 11-JUL-23 09:51
Receive Date: 14-JUL-23
Collector: Client

Parameter	Qualifier	Result U	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting	Ţ										
GFPC, Ra228, Liquid	"As Received'	1										
Radium-228		3.22	+/-1.48	1.97	3.00	pCi/L			JE1	08/10/23	0842 2472078	1
Radium-226+Radium-	228 Calculation	n "See Pare	ent Products"									
Radium-226+228 Sum		5.93	+/-1.65			pCi/L		1	NXL1	08/11/23	1032 2460567	2
Rad Radium-226												
Lucas Cell, Ra226, Lic	quid "As Recei	ived"										
Radium-226	_	2.72	+/-0.749	0.537	1.00	pCi/L			LXP1	08/11/23	0818 2460555	3

The following Analytical Methods were performed:

Method	Description		Analyst Co	omments	
1	EPA 904.0/SW846 9320 Modified		-		
2	Calculation				
3	EPA 903.1 Modified				
Cuma cata/Traca	or Dagayary Tost	D agult	Naminal	Dagayamı0/	A acontoble Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 66.9 (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

Page 3 of 25 SDG: 629286

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

Certificate of Analysis

Report Date: August 11, 2023

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: AF68749 Sample ID: 629286002

Matrix: GW

Collect Date: 11-JUL-23 10:52
Receive Date: 14-JUL-23
Collector: Client

: AF68749 Project: SOOP00119 629286002 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "	As Received"												
Radium-228	U	0.544	+/-0.893	1.57	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"										
Radium-226+228 Sum		1.24	+/-1.00			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"											
Radium-226		0.697	+/-0.455	0.623	1.00	pCi/L			LXP1	08/11/23	0818	2460555	3
The following Analytic	eal Methods w	ere perfo	ormed:										
Method	Description					I	Analys	st Co	mment	S			

1 E	PA 904.0/SW846 9320 Modified				
2	Calculation				
3 E	EPA 903.1 Modified				
Surrogate/Tracer Recovery	y Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.1	(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

Page 4 of 25 SDG: 629286

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: August 11, 2023

SOOP00119

SOOP001

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: AF68751 Sample ID: 629286003

Matrix: GW

Collect Date: 10-JUL-23 10:00
Receive Date: 14-JUL-23
Collector: Client

MDC RLParameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 2.87 +/-1.41 2.04 3.00 pCi/L JE1 08/10/23 0842 2472078 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 4.17 +/-1.51 pCi/L NXL1 08/11/23 1032 2460567 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 1.30 +/-0.536 0.479 1.00 pCi/L LXP1 08/11/23 0849 2460555 3

The following Analytical Methods were performed:

Description

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"

Result Nonlinial Recovery Acceptable Lilli

74.2 (15%-125%)

#### **Notes:**

Method

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

Page 5 of 25 SDG: 629286

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Certificate of Analysis

Report Date: August 11, 2023

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: AF68750 Sample ID:

Matrix: GW

Collect Date: 10-JUL-23 11:18 Receive Date: 14-JUL-23 Client Collector:

Description

Project: SOOP00119 629286004 Client ID: SOOP001

Parameter	Oualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proportio													
GFPC, Ra228, Liquid "A	Č												
Radium-228	U	0.458	+/-1.13	2.03	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.43	+/-1.23			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.970	+/-0.485	0.536	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3
The following Analytical Methods were performed:													

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

**Analyst Comments** 

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 64.6 (15%-125%)

#### **Notes:**

Method

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

Page 6 of 25 SDG: 629286

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Certificate of Analysis

Report Date: August 11, 2023

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: AF68755 Sample ID: 629286005

Matrix: GW

Collect Date: 10-JUL-23 12:59
Receive Date: 14-JUL-23
Collector: Client

Description

D: AF68755 Project: SOOP00119 629286005 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Rad Gas Flow Proportio	nal Counting												
GFPC, Ra228, Liquid "A	As Received"												
Radium-228	U	1.17	+/-1.06	1.72	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"										
Radium-226+228 Sum		2.19	+/-1.17			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"											
Radium-226		1.03	+/-0.485	0.517	1.00	pCi/L			LXP1	08/11/23	0849	2460555	3
The following Analytic	al Methods w	ere perfo	ormed:										

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

**Analyst Comments** 

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 69.5 (15%-125%)

#### Notes:

Method

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

Page 7 of 25 SDG: 629286

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

Certificate of Analysis

Report Date: August 11, 2023

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: AF68733 Sample ID: 629286006

Matrix: GW

Collect Date: 10-JUL-23 14:10
Receive Date: 14-JUL-23
Collector: Client

F68733 Project: SOOP00119 9286006 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF A	nalyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	;									
GFPC, Ra228, Liquid "	As Received"	1									
Radium-228		1.80	+/-1.14	1.65	3.00	pCi/L		JH	E1 08/10/2	8 0842 2472078	3 1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.41	+/-1.31			pCi/L		1 N	XL1 08/11/2	3 1032 246056	7 2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.61	+/-0.663	0.592	1.00	pCi/L		L	XP1 08/11/2	0849 246055	5 3
The following Analytical Methods were performed:											
Method	Description					1	Analys	st Comn	nents		

1	EPA 904.0/SW846 9320 Modified		•		
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 68 (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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 11, 2023

SOOP00119

SOOP001

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: AF68734 Sample ID: 629286007

Matrix: GW

Collect Date: 10-JUL-23 14:15
Receive Date: 14-JUL-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting	5									
GFPC, Ra228, Liquid	"As Received"										
Radium-228	U	1.00	+/-1.01	1.66	3.00	pCi/L		JE1	08/10/23	0842 2472078	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		2.38	+/-1.15			pCi/L		1 NXL	08/11/23	1032 2460567	2
Rad Radium-226											
Lucas Cell, Ra226, Lie	quid "As Recei	ved"									
Radium-226		1.38	+/-0.544	0.546	1.00	pCi/L		LXP1	08/11/23	0849 2460555	3
The following Analyt	ical Mathade v	zara narfo	rmad:								

The following Analytical Methods were performed:

1 EPA	A 904.0/SW846 9320 Modified				
2 Cale	lculation				
3 EPA	A 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Description

GFPC, Ra228, Liquid "As Received" 68.5 (15%-125%)

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma). *Column headers are defined as follows:* 

Method

**Notes:** 

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: August 11, 2023

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: AF68740 Sample ID: 629286008

Matrix: GW

Collect Date: 12-JUL-23 11:01
Receive Date: 14-JUL-23
Collector: Client

Description

D: AF68740 Project: SOOP00119 629286008 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF A	nalyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.589	+/-1.25	2.22	3.00	pCi/L		JE	1 08/10/23	0842 2472078	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		2.99	+/-1.40			pCi/L		1 N	XL1 08/11/23	1032 2460567	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.40	+/-0.623	0.312	1.00	pCi/L		L	KP1 08/11/23	0849 2460555	3
The following Analytic	al Methods w	ere perfo	rmed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

**Analyst Comments** 

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

64.8 (15%-125%)

#### Notes:

Method

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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 11, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF68743 Sample ID: 629286009

Matrix: GW

Collect Date: 12-JUL-23 13:23 Receive Date: 14-JUL-23 Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting											
GFPC, Ra228, Liquid "	As Received"											
Radium-228	U	0.685	+/-1.18	2.05	3.00	pCi/L			JE1	08/10/23	0842 2472078	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	rent Products"									
Radium-226+228 Sum		3.51	+/-1.39			pCi/L		1	NXL1	08/11/23	1032 2460567	2
Rad Radium-226												
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"										
Radium-226		2.82	+/-0.733	0.542	1.00	pCi/L			LXP1	08/11/23	0849 2460555	3

The following Analytical Methods were performed:

Description

2 Cal	lculation				
3 EP.	A 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
D : 122 F	CEDC D 220 II : IIIA D . III			72.2	(150/ 1050/)

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 72.2 (15%-125%)

Method

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

EPA 904.0/SW846 9320 Modified

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: August 11, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF68744 Sample ID: 629286010

Matrix: GW

Collect Date: Receive Date: 14-JUL-23 Collector:

12-JUL-23 13:28 Client

Project:

Client ID:

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	0.0630	+/-0.807	1.56	3.00	pCi/L		JE1	08/10/23	0842 2472078	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.35	+/-0.976			pCi/L		1 NXL1	08/11/23	1032 2460567	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.29	+/-0.549	0.548	1.00	pCi/L		LXP1	08/11/23	0849 2460555	3
The following Analytic	eal Methods w	ere perfo	rmed:								

Description

EPA 904.0/SW846 9320 Modified Calculation EPA 903.1 Modified

Nominal Acceptable Limits Surrogate/Tracer Recovery Test Result Recovery% Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%) 69.1

#### Notes:

Method

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: August 11, 2023

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: AF68738 Sample ID: 629286011

Matrix: GW

Collect Date: 12-JUL-23 12:28 Receive Date: 14-JUL-23 Collector: Client

Description

D: AF68738 Project: SOOP00119 629286011 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF.	Analy	st Date	Time	e Batch	Method
Rad Gas Flow Proportio	nal Counting												
GFPC, Ra228, Liquid "A	As Received"												
Radium-228	U	0.925	+/-1.25	2.13	3.00	pCi/L			JE1	08/10/23	0842	2472078	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"										
Radium-226+228 Sum		1.75	+/-1.34			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	id "As Recei	ved"											
Radium-226		0.823	+/-0.494	0.633	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3
The following Analytica	al Methods w	ere perfo	ormed:										

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	erv Test	Result	Nominal	Recoverv%	Acceptable Limits

**Analyst Comments** 

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 69.2 (15%-125%)

#### Notes:

Method

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: August 11, 2023

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: AF68732 Sample ID: 629286012

Matrix: GW

Collect Date: 12-JUL-23 14:32
Receive Date: 14-JUL-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting											
GFPC, Ra228, Liquid "A	As Received"											
Radium-228	U	1.24	+/-1.50	2.54	3.00	pCi/L			JE1	08/10/23	1038 2472078	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"									
Radium-226+228 Sum		3.96	+/-1.68			pCi/L		1	NXL1	08/11/23	1032 2460567	2
Rad Radium-226												
Lucas Cell, Ra226, Liqu	id "As Recei	ved"										
Radium-226		2.72	+/-0.746	0.393	1.00	pCi/L			LXP1	08/11/23	0921 2460555	3
The following Analytica	al Methods w	ere perfo	rmed:									
Method	Description	·				F	Analys	t Co	mment	S		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

71.1 (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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Certificate of Analysis

Report Date: August 11, 2023

SOOP00119

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF68741 Sample ID:

Matrix: GW

Collect Date: 11-JUL-23 12:51 Receive Date: 14-JUL-23 Client Collector:

Project: 629286013 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Rad Gas Flow Proportio	nal Counting												
GFPC, Ra228, Liquid "A	As Received"												
Radium-228	U	0.845	+/-0.937	1.56	3.00	pCi/L			JE1	08/10/23	0843	2472078	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"										
Radium-226+228 Sum		1.64	+/-1.02			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"											
Radium-226		0.794	+/-0.405	0.422	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3
The following Analytic	al Methods w	ere perfo	rmed:										

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	•

2 Calculation EPA 903.1 Modified

Nominal Recovery% Acceptable Limits Surrogate/Tracer Recovery Test Result Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 63.5 (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: August 11, 2023

SOOP00119

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: AF68745 Sample ID: 629286014

Matrix: GW

Collect Date: 11-JUL-23 15:21
Receive Date: 14-JUL-23
Collector: Client

Description

629286014 Client ID: SOOP001

Project:

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proportion	nal Counting												
GFPC, Ra228, Liquid "A	As Received"												
Radium-228	U	0.768	+/-0.851	1.42	3.00	pCi/L			JE1	08/10/23	0843	2472078	1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"										
Radium-226+228 Sum		1.41	+/-0.959			pCi/L		1	NXL1	08/11/23	1032	2460567	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"											
Radium-226		0.638	+/-0.442	0.588	1.00	pCi/L			LXP1	08/11/23	0921	2460555	3
The following Analytic	al Methods w	ere perfo	ormed:										

Surrogate/Tracer Recov	erv Test	Result	Nominal	Recovery%	Acceptable Limits
3	EPA 903.1 Modified				
2	Calculation				
1	EPA 904.0/SW846 9320 Modified				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 72.8 (15%-125%)

#### Notes:

Method

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

**QC** Summary

Report Date: August 11, 2023

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

**Contact:** Ms. Jeanette Gilmetti

Workorder: 629286

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow Batch 247	72078											
QC1205480715 Radium-228	629286001	DUP	Uncertainty	3.22 +/-1.48		1.58 +/-1.02	pCi/L	68.4		(0% - 100%)	JE1	08/10/23 08:43
QC1205480716 Radium-228	LCS		80.5 Uncertainty			89.3 +/-5.27	pCi/L		111	(75%-125%)		08/10/23 08:43
QC1205480714 Radium-228	МВ		Uncertainty		U	0.162 +/-0.894	pCi/L					08/10/23 08:43
<b>Rad Ra-226</b> Batch 246	60555											
QC1205460757 Radium-226	629286001	DUP	Uncertainty	2.72 +/-0.749		1.82 +/-0.601	pCi/L	39.5*		(0%-20%)	LXP1	08/11/23 09:21
QC1205460759 Radium-226	LCS		26.3 Uncertainty			28.2 +/-2.27	pCi/L		107	(75%-125%)		08/11/23 09:21
QC1205460756 Radium-226	MB		Uncertainty		U	0.261 +/-0.295	pCi/L					08/11/23 09:21
QC1205460758 Radium-226	629286001	MS	131 Uncertainty	2.72 +/-0.749		126 +/-10.6	pCi/L		93.9	(75%-125%)		08/11/23 09:21

#### **Notes:**

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

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Page 1 of 2

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## QC Summary

Workorder: 629286

Page 2 of 2

Parmame

NOM Sample Qual OC Units RPD% REC% Range Ankt Date Time

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

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

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# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 629286

Product: GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2472078

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
629286001	AF68757
629286002	AF68749
629286003	AF68751
629286004	AF68750
629286005	AF68755
629286006	AF68733
629286007	AF68734
629286008	AF68740
629286009	AF68743
629286010	AF68744
629286011	AF68738
629286012	AF68732
629286013	AF68741
629286014	AF68745
1205480714	Method Blank (MB)
1205480715	629286001(AF68757) Sample Duplicate (DUP)
1205480716	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.

#### **Preparation Information**

#### **Homogenous Matrix**

Samples 629286004 (AF68750), 629286006 (AF68733), 629286007 (AF68734), 629286011 (AF68738) and 629286012 (AF68732) were non-homogenous matrix. sample 12 is brown the others are a light yellow 629286004 (AF68750), 629286006 (AF68733), 629286007 (AF68734), 629286011 (AF68738) and 629286012 (AF68732).

#### **Technical Information**

#### Sample Re-prep/Re-analysis

Samples were reprepped due to high blank activity. The re-analysis is being reported.

#### **Recounts**

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Samples were re-eluted and recounted to verify sample results. 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:** 2460555

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
629286001	AF68757
629286002	AF68749
629286003	AF68751
629286004	AF68750
629286005	AF68755
629286006	AF68733
629286007	AF68734
629286008	AF68740
629286009	AF68743
629286010	AF68744
629286011	AF68738
629286012	AF68732
629286013	AF68741
629286014	AF68745
1205460756	Method Blank (MB)
1205460757	629286001(AF68757) Sample Duplicate (DUP)
1205460758	629286001(AF68757) Matrix Spike (MS)
1205460759	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
1205460757 (AF68757DUP)	Radium-226	RPD 39.5* (0.00%-20.00%) RER 1.5 (0-3)

#### **Miscellaneous Information**

#### **Additional Comments**

The matrix spike, 1205460758 (AF68757MS), aliquot was reduced to conserve sample volume.

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#### **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.

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# Chain of Custody 624 280



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 125915 / JM02.08. GØ1.1 / 36500 LCWILLIA @santeecooper.com (Yes) No Analysis Group Labworks ID# Sample Location/ Comments Matrix(see below) Preservative (see below) Collection Date (Internal use Description (Glass Method # Collection Tim Sample Collecto Total # of contail only) Grab (G) or Composite (C) Reporting limit Bottle type: ( G/Plastic-P) 226 228 BA Misc. sample info RAD TATAL Any other notes RAD WJK 2 P 2 G X 7/11/23 GW 1 AF68757 WLF-A2-2 0951 1052 WBW-A1-1 AF68749 7/10/23 WLF-AI-2 1000 AF68751 WLF-AI-1. 1118 AF68750 WLF-AI-5 1259 AF68755 1410 AF 68 733 WAP-17 1415 AF68734 WAP-IT DUP Sample Receiving (Internal Use Only) Relinquished by: Received by: Employee# Date Time Employee # Date Time TEMP (°C):\_\_\_\_\_ Initial: Somoun GEL 35594 7/14/23 0859 7/14/23 0859 Correct pH: Yes Time Relinquished by: Employee# Date Time Received by: Employee # Date Preservative Lot#: BEL 7/4/23 US Relinquished by: Date Received by: Employee# Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) Nutrients MISC. Gypsum Coal Flyash Oil □ Ag □ Cu □ Sb □ TOC BTEX ☐ Wallboard ☐ Ultimate □ Ammonia Trans. Oil Qual. □ A1 □ Se □ Fe DOC □ Naphthalene Gypsum(all %Moisture ☐ % Moisture □ LOI □ THM/HAA □ As  $\Box K$ □ Sn below) ☐ TP/TPO4 □ Ash Color ☐ % Carbon □ VOC □ AIM Acidity □ NH3-N □ Sulfur  $\square$  B □ Li □ Sr ☐ Mineral □ Oil & Grease Dielectric Strength □ TOC DF ☐ BTUs Analysis ☐ E. Coli IFT □ Ti □ Ba □Mg □ Total metals □ Cl ☐ Volatile Matter ☐ Total Coliform ☐ Sieve Dissolved Gases ☐ Soluble Metals □ T1 □ NO2 □ Be □ Mn □рН □ CHN ☐ % Moisture Used Oil □ Purity (CaSO4) □ Br ☐ Dissolved As □ % Moisture Other Tests: Flashpoint □ Ca □Мо  $\Box V$ □ Dissolved Fe □ NO3 ☐ XRF Scan Metals in oil □ Sulfites **NPDES** □ Cd □ Na □ Zn ☐ Rad 226 (As,Cd,Cr,Ni,Pb □ HGI □ SO4 □pH □ Oil & Grease □ Rad 228 Hg) □ Chlorides ☐ Fineness □ Hg □ Co □ Ni □ PCB □ As ☐ Particulate Matter TX ☐ Particle Size □ TSS □ Cr □ Pb □ CrVI GOFER □ Sulfur

# **Chain of Custody**



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

LCWILL		Report Recipie  @santeec	ent: ooper.com	Date I	Results N	eeded b	y:	1259		oject/		Unit #:	1/3650	Rerun reque		ny fla	igged (	ДC
																Analys	is Group	
Labworks I	ID#	Sample Locatio	n/	F. 7. 103	The second	P. Barr	7.15		5.25			医空动脉形	Com	ments	30	1	1 .;1	_
(Internal us only)	NAME OF TAXABLE PARTY.	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	Me     Rep     Mis     An	thod # porting lim sc. sample y other not	it info	RAD 226	RAD 228	TOTALKAD ONC.	
AF6'8 74	10	WAP- 23		7/12/23	1101	WIK	2	P	G	GW	2				ı	1	×	
AF 68 74	<del>1</del> 3	WAP-26			1323										1	1		
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AF68739	8	WAP-21			1228			1	1									
AF6873	2	WAP-16		1	1432	1												
AF6874	-1	WAP-24		7/11/23	1251													
AF6874	5	WAP-27	1.00	1	1521	1	1	1	1	_	1				1	1	1	
Relinquish	had hv	Employee#	Date	Time	Recei	ed by:	l Fi	mployee	# [	Date		Time		Receiving (Interne				
8912 wun		35594	7/14/23		. M	0		GEL		/14/2		0859	TEME	(°C):	Initia	l:	-	
Relinquish		Employee#	Date	Time	Receiv	ed by:	_	mployee	_	Date	-	Time	Corre	ct pH: Yes N	No			
Relinquish	hed by:	GE L Employee#	7.14.27 Date	1455 Time	har- Receiv	ved by:		EL		Date		1955 Time	Preservative Lot#:  Date/Time/Init for preservative:					
		TALS (all)	Nuti	rients	MI	SC.		Gy	psun	n		Coa		Flyash		Oi	1	
□ Ag	□ Cu		□ TO	C	□ BTEX		0	Wallbo	ard			Ultimate		□ Ammonia		ins. O	il Qual.	
□ As	□K	Section of the second seco			□ Naphtha □ THM/H			Gyp	sum(a	H		☐ % Mois	ture	□ LOI		Mois color	sture	
□ <b>B</b>	□ Li	(表 ) (計畫 (表)	□NH	March 2007/400	□ VOC □ Oil & G	ranca		□ AI	M			□ Sulfur		☐ % Carbon ☐ Mineral	112	cidity	c Strength	
□Ba		Table College Ass	□F	1	□ E. Coli		1	□ To	C al meta	ls		□ BTUs		Analysis	[1]	FT		
□ Be		COLUMN BURNS SERVICE		2	□ Total Co	oliform	1		uble Me			□ Volatile	atile Matter ☐ Sieve  N ☐ % Moisture			Dissolved Gases Used Oil		
□ Ca		San San San San San	□Br		□ Dissolve		1	□%1	Moistur		THE REAL PROPERTY.	ther Tests:			11.5	lashpo	oint	
□ Cd	□ Na		□ NO.	200	☐ Dissolve ☐ Rad 226		1	□ Sul □ pH			THE RESERVE	XRF Scan HGI		NPDES	(		in oil l.Cr.Ni.P	ь
□Со	□Ni	ATTENDED			□ Rad 228 □ PCB		N L	□ Chl	lorides		100 100 100 100	Fineness Particulate M	atter	□ Oil & Grease □ As		lg) X		
□ Cr	□ Pb	The second secon			2100		1	☐ Par ☐ Sulfur	ticle Siz	Ze	1	i dittediate iv	atter			GOFER		

Laboratories LLC SAMPLE RECEIPT & REVIEW FORM Client: SOOF SDG/AR/COC/Work Order: (12) 250 Received By: QG Date Received: 7/14/23 FedEx Express FedEx Ground UPS Field Services Courier Carrier and Tracking Number Suspected Hazard Information \*If yet Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. Hazara Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes\_\_\_No\_\_ A)Shipped as a DOT Hazardous? B) Did the client designate the samples are to be notation or radioactive stickers on containers equal client designation. received as radioactive? Mayamum Net Counts Observed\* (Observed Counts - Area Background Counts): C) Did the RSO classify the samples as CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3 radioactive? notation or hazard labels on containers equal client designation. D) Did the client designate samples are hazardous. If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium E) Did the RSO identify possible hazards? Z Z Z Sample Receipt Criteria Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Shipping containers received intact and scaled? Chain of custody documents included Circle Applicable: Client contacted and provided COC COC created upon receipt with shipment? Preservation Method: Wet Ice ce Packs Dry ice None Other. Samples requiring cold preservation \*all temperatures are seeded in Celsius TEMP: 3 C within  $(0 \le 6 \text{ deg. C})$ ?\* Daily check performed and passed on IR Temperature Device Serial #: IR4-23 temperature gun? Secondary Temperature Device Serial # (If Applicable): Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Sample containers intact and sealed? Samples requiring chemical preservation Sample ID's and Containers Affected: at proper pH? servation added. Lot#: If tes, 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\_\_ Do any samples require Volatile NA\_(If unknown, select No) Are liquid VOA vials free of headspace? Yes\_\_\_ No\_\_\_ NA\_ Analysis? Sample ID's and containers affected: ID's and tests affected: 8 Samples received within holding time? Sample ID's on COC match ID's on ID's and containers affected: Date & time on COC match date & time Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) 10 on bottles? Circle Applicable: No container count on COC Other (describe) Number of containers received match number indicated on COC? Are sample containers identifiable as GEL provided by use of GEL labels? COC form is properly signed in Circle Applicable: Not relinquished Other (describe) relinquished/received sections? Comments (Use Continuation Form if needed):

GL-CHL-SR-001 Rev 7

133 Page \_\_\_\_ of \_\_\_

PM (or PMA) review: Initials 7

List of current GEL Certifications as of 11 August 2023

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	SC000122023-4
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
	<u> </u>



# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

JOB DESCRIPTION

Generated 9/13/2023 6:37:26 PM Revision 1

125915/JM02.09.G01.1/36500

**JOB NUMBER** 

680-239668-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **Eurofins Savannah**

## **Job Notes**

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

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

## **Authorization**

Generated 9/13/2023 6:37:26 PM Revision 1

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

Job ID: 680-239668-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-239668-1

#### **REVISION**

The report being provided is a revision of the original report sent on 9/1/2023. The report (revision 1) is being revised due to Client needs mercury re-run due to failing CCV..

#### Receipt

The samples were received on 8/30/2023 9:10 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 22.7°C

#### Metals

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

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# **Sample Summary**

Matrix

Water

Water

Water

Water

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID** 

AF75783

AF75784

AF75785

AF75786

Lab Sample ID

680-239668-1

680-239668-2

680-239668-3

680-239668-4

Job ID: 680-239668-1

Collected	Received
08/28/23 13:49	08/30/23 09:10
08/28/23 11:09	08/30/23 09:10
08/28/23 11:14	08/30/23 09:10

08/28/23 12:35 08/30/23 09:10

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	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

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# **Definitions/Glossary**

Client: South Carolina Public Service Authority

Job ID: 680-239668-1

Project/Site: 125915/JM02.09.G01.1/36500

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

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## **Detection Summary**

 Project/Site: 125915/JM02.09.G01.1/36500

 Client Sample ID: AF75783
 Lab Sample ID: 680-239668-1

 No Detections.
 Lab Sample ID: 680-239668-2

 No Detections.
 Lab Sample ID: 680-239668-3

 No Detections.
 Lab Sample ID: 680-239668-4

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Job ID: 680-239668-1

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Client: South Carolina Public Service Authority

No Detections.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-239668-1

Matrix: Water

Job ID: 680-239668-1

Date Collected: 08/28/23 13:49 Date Received: 08/30/23 09:10

**Client Sample ID: AF75783** 

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 09/11/23 12:16 09/12/23 12:41

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Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-239668-2 **Client Sample ID: AF75784** Date Collected: 08/28/23 11:09

Matrix: Water

Job ID: 680-239668-1

Date Received: 08/30/23 09:10

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 09/11/23 12:16 09/12/23 12:43

**Eurofins Savannah** 

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF75785 Lab Sample ID: 680-239668-3

Date Collected: 08/28/23 11:14 Matrix: Water

Date Received: 08/30/23 09:10

 Method: SW846 7470A - Mercury (CVAA)

 Analyte
 Result
 Qualifier
 RL
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 Unit
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 Prepared
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 Dil Fac

 Mercury
 0.200
 U
 0.200
 0.200
 09/11/23 12:16
 09/11/23 12:16
 09/12/23 12:44
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Job ID: 680-239668-1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-239668-4

Matrix: Water

Job ID: 680-239668-1

**Client Sample ID: AF75786** Date Collected: 08/28/23 12:35

Date Received: 08/30/23 09:10

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 09/11/23 12:16 09/12/23 12:46

# **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-797380/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 797609 Prep Batch: 797380

MB MB

 $\frac{\text{Analyte}}{\text{Mercury}} \qquad \frac{\text{Result}}{\text{0.200}} \quad \frac{\text{Qualifier}}{\text{U}} \qquad \frac{\text{RL}}{\text{0.200}} \qquad \frac{\text{MDL}}{\text{ug/L}} \qquad \frac{\text{Unit}}{\text{ug/L}} \qquad \frac{\text{D}}{\text{09/11/23 11:54}} \quad \frac{\text{Analyzed}}{\text{09/11/23 11:54}} \qquad \frac{\text{Dil Fac}}{\text{09/12/23 12:08}} \qquad 1$ 

Lab Sample ID: LCS 680-797380/2-A

Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 797609 Prep Batch: 797380
Spike LCS LCS %Rec

 Analyte
 Added Mercury
 Result Qualifier Unit ug/L
 Unit ug/L
 D %Rec Limits 106 80 - 120

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### **QC Association Summary**

Client: South Carolina Public Service Authority Job ID: 680-239668-1 Project/Site: 125915/JM02.09.G01.1/36500

#### Metals

**Prep Batch: 797380** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239668-1	AF75783	Total/NA	Water	7470A	
680-239668-2	AF75784	Total/NA	Water	7470A	
680-239668-3	AF75785	Total/NA	Water	7470A	
680-239668-4	AF75786	Total/NA	Water	7470A	
MB 680-797380/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-797380/2-A	Lab Control Sample	Total/NA	Water	7470A	

#### Analysis Batch: 797609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239668-1	AF75783	Total/NA	Water	7470A	797380
680-239668-2	AF75784	Total/NA	Water	7470A	797380
680-239668-3	AF75785	Total/NA	Water	7470A	797380
680-239668-4	AF75786	Total/NA	Water	7470A	797380
MB 680-797380/1-A	Method Blank	Total/NA	Water	7470A	797380
LCS 680-797380/2-A	Lab Control Sample	Total/NA	Water	7470A	797380

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF75783** 

Lab Sample ID: 680-239668-1

Matrix: Water

Job ID: 680-239668-1

Date Collected: 08/28/23 13:49 Date Received: 08/30/23 09:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:41

Client Sample ID: AF75784 Lab Sample ID: 680-239668-2

Matrix: Water

Date Collected: 08/28/23 11:09 Date Received: 08/30/23 09:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:43

Client Sample ID: AF75785 Lab Sample ID: 680-239668-3

Lab Cample 1D. At 19705

Date Collected: 08/28/23 11:14

Date Received: 08/30/23 09:10

Matrix: Water

Batch Batch **Dilution** Batch **Prepared** Number Analyst **Prep Type** Type Method Run **Factor** or Analyzed Lab Total/NA Prep 7470A 797380 DW **EET SAV** 09/11/23 12:16 Total/NA Analysis 7470A 797609 DW **EET SAV** 09/12/23 12:44 1

Client Sample ID: AF75786 Lab Sample ID: 680-239668-4

Date Collected: 08/28/23 12:35 Matrix: Water

Date Received: 08/30/23 09:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			797380	DW	EET SAV	09/11/23 12:16
Total/NA	Analysis	7470A		1	797609	DW	EET SAV	09/12/23 12:46

#### **Laboratory References:**

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

**Eurofins Savannah** 

#### **Chain of Custody**

santee cooper

One Riverwood Drive Moncks Comer, 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 @santeecooper.com 125915 / JMO2.09.GØ1.1 / 36500 Yes No **Analysis Group** Labworks ID# Sample Location/ Comments Preservative (see below) Matrix(see below) Glass-(Internal use Description Collection Date Method # Collector only) Reporting limit Grab (G) or Composite (C) Bottle type: (G/Plastic-P) Collection Misc. sample info Sample Any other notes \$ EDM BSB ew. G 2 RLS 0.2 or 2 49/L AF 75783 WAP 27 8/28/23 1349 7 7471 X WAP-28 1109 85 WAP-28D 1114 WAP- 29 1235 86 Sample Receiving (Internal Use Only) Time Employee# Received by: Employee # Date Time TEMP (°C): Initial: 8/29/23 Sproan 35594 1300 Correct pH: Yes No Relinquished by: Date Time Received by: Employee # Date Time Preservative Lot#: Relinquished by: Employee# Date Time Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all) MISC. Gypsum Oil Coal □ Ag □ Cu □ Sb Trans. Oil Qual. %Moisture Color □ TOC □ BTEX □ Wallboard □ Ultimate Gypsum(all below)

□ AIM
□ TOC O Al □ Fe □ Se □ Naphthalene
□ THM/HAA U DOC ☐ % Moisture □ LOI □ As OK. □ Sn □ TP/TPO4 E ASE □%Fa ... □ VOC □ NH3-N □ Sulfur ΩВ □ Sr ① Mineral □ Li □ Oil & Grease D BTUs Analysis □ Ва ☐ E. Coli
☐ Total Coliform □ Mg □ Ti aer □ Volatile Matter ☐ Be □ Mn D.N. O TI Used Oil DCHN Dissolved As Other Tests C Ca □Мо OV ☐ Dissolved Fe
☐ Rad 226 (AS,Cd,Cr,NLPb, Hg) TX d Cd □ Na □ Zn ☐ SO4 DHGI □ Oil & Grease □ Rad 228
□ PCB O Co □Ni **X**Hg ☐ As ☐ TSS. ☐ Particulate Matter □ Cr □ Pb □ CrVI COFER

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)

Precervative code, 1=<4°C 2=HNO<sub>1</sub> 3=H<sub>1</sub>SO<sub>4</sub> 4-HCl 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Other (Specify)

		Units	Screening Value	
	Ag	mg kg		
	AJ	g kg		
	As	mg kg	13.1	6010
	В	mg kg	200	
	Ва	mg kg	1000	
-	Ве	mg kg	? 2.5	6020
	Ca	g kg		6010
	Cd	mg kg	1	6010
	Co	mg kg	20	
_	Cr(III)	mg kg	100	-010
	Cu	mg kg	95	
	Fe	g kg		
-	Hg	mg kg	2.5	
	Mg	g kg.		6010
	Mn	mg kg	1500	
	Мо	mg kg	10	6010
-	Ni	mg kg	100	6010
	Pb	mg kg	30	
	5	gkg	220	CFL
-	Sb	mg kg	1.5	6020
-	Se	mg kg	50	6010
	Sn	mg kg		
-	TI .	mg kg	1	6020
	V	mg kg	136	
	Zn	mg kg	125	
	Rad 226	pCi/g	10	

10 Continue analysis monthly 16 Analyze quarterly

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### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-239668-1

Login Number: 239668 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.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	

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### **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-239668-1

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 



## **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

### **JOB DESCRIPTION**

125915/JM02.09.G01.1/36500

Generated 8/16/2023 12:48:34 PM Revision 1

### **JOB NUMBER**

680-238537-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



### **Eurofins Savannah**

### **Job Notes**

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

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

### **Authorization**

Generated 8/16/2023 12:48:34 PM Revision 1

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

Job ID: 680-238537-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-238537-1

#### **REVISION**

The report being provided is a revision of the original report sent on 8/9/2023. The report (revision 1) is being revised due to Client is requesting add'l metals to be reported under method 6020A (AI, Cu, Fe, Mg, Ni & Zn).

#### Receipt

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

#### Metals

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

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### **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

Lab Sample ID 680-238537-1	Client Sample ID AF68739	Matrix Water	Collected 07/05/23 10:44	Received 08/02/23 10:45
680-238537-2	Af68748	Water	06/27/23 10:15	08/02/23 10:45
680-238537-3	Af68711	Water	06/27/23 11:26	08/02/23 10:45
680-238537-4	Af68717	Water	06/27/23 13:57	08/02/23 10:45

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### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
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

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### **Definitions/Glossary**

Client: South Carolina Public Service Authority

Job ID: 680-238537-1

Project/Site: 125915/JM02.09.G01.1/36500

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

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

D: 680-238537-1

Client Sample ID: AF68739	Lab Sample ID:

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Calcium	227000	500	ug/L		6010D	Total
						Recoverable
Arsenic	8.46	3.00	ug/L	1	6020B	Total
						Recoverable
Barium	97.2	5.00	ug/L	1	6020B	Total
						Recoverable
Iron	17200	100	ug/L	1	6020B	Total
						Recoverable
Magnesium	8080	250	ug/L	1	6020B	Total
						Recoverable

### Client Sample ID: Af68748 Lab Sample ID: 680-238537-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	3260		500		ug/L	1	_	6010D	Total
									Recoverable
Aluminum	938		100		ug/L	1		6020B	Total
									Recoverable
Barium	53.4		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	2.00		0.500		ug/L	1		6020B	Total
									Recoverable
Magnesium	1280		250		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: Af68711 Lab Sample ID: 680-238537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	8490		500		ug/L	1	_	6010D	Total
									Recoverable
Aluminum	1140		100		ug/L	1		6020B	Total
									Recoverable
Arsenic	8.50	(	3.00		ug/L	1		6020B	Total
									Recoverable
Barium	77.1	į.	5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.595	0.	500		ug/L	1		6020B	Total
									Recoverable
Iron	2200		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	733		250		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: Af68717 Lab Sample ID: 680-238537-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	605000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	42.8		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	169		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	13800		250		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF68739

Lab Sample ID: 680-238537-1

Matrix: Water

Job ID: 680-238537-1

Date Collected: 07/05/23 10:44 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	227000		500		ug/L		08/03/23 06:38	08/04/23 17:08	1
	Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:08	1

_	20.0	O	20.0		ug/L		00/00/20 00.00	00/04/20 17.00	Į.
	B - Metals (ICP/MS)	- Total Reco	overable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:01	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Arsenic	8.46		3.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Barium	97.2		5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:01	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:01	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:01	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Iron	17200		100		ug/L		08/03/23 06:38	08/08/23 15:01	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:01	1
Magnesium	8080		250		ug/L		08/03/23 06:38	08/08/23 15:01	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:01	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:01	1
_									

Client: South Carolina Public Service Authority Job ID: 680-238537-1 Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: Af68748

Lab Sample ID: 680-238537-2

Date Collected: 06/27/23 10:15 Matrix: Water Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	3260		500		ug/L		08/03/23 05:51	08/03/23 15:18	1
	Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	938		100		ug/L		08/03/23 05:51	08/07/23 16:42	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Barium	53.4		5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:42	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:42	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Cobalt	2.00		0.500		ug/L		08/03/23 05:51	08/07/23 16:42	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:42	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:42	1
Magnesium	1280		250		ug/L		08/03/23 05:51	08/07/23 16:42	1
Nickel	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:42	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:42	1

Client: South Carolina Public Service Authority Job ID: 680-238537-1 Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: Af68711 Lab Sample ID: 680-238537-3

Matrix: Water

Date Collected: 06/27/23 11:26 Date Received: 08/02/23 10:45

Method: SW846 6010	D - Metals (ICP) - To	tal Recovera	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8490		500		ug/L		08/03/23 06:38	08/04/23 17:10	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:10	1
_ Method: SW846 6020	AP Metale (ICD/MC)	Total Book	versble						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1140		100		ug/L		08/03/23 06:38	08/08/23 15:05	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Arsenic	8.50		3.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Barium	77.1		5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:05	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:05	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Cobalt	0.595		0.500		ug/L		08/03/23 06:38	08/08/23 15:05	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Iron	2200		100		ug/L		08/03/23 06:38	08/08/23 15:05	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:05	1
Magnesium	733		250		ug/L		08/03/23 06:38	08/08/23 15:05	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:05	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:05	1

Client: South Carolina Public Service Authority Job ID: 680-238537-1 Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: Af68717** 

Lab Sample ID: 680-238537-4

Matrix: Water

Date Collected: 06/27/23 13:57 Date Received: 08/02/23 10:45

Method: SW846 6010	DD - Metals (ICP) - To	tal Recovera	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	605000		500		ug/L		08/03/23 06:38	08/04/23 17:13	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:13	1
	DR - Motals (ICP/MS)	- Total Reco	werable						

	20.0	J	20.0		ug/L		00/00/20 00.00	00/0-7/20 17.10	•
- Method: SW846 6020E	B - Metals (ICP/MS)	- Total Reco	overable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:09	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Barium	42.8		5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:09	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:09	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:09	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Iron	169		100		ug/L		08/03/23 06:38	08/08/23 15:09	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:09	1
Magnesium	13800		250		ug/L		08/03/23 06:38	08/08/23 15:09	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:09	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:09	1
_									

Job ID: 680-238537-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791516/1-A

Matrix: Water

Analysis Batch: 791719

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791516** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		08/03/23 05:51	08/03/23 14:52	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 14:52	1

MB MB

Lab Sample ID: LCS 680-791516/2-A

Matrix: Water

Analysis Batch: 791719

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

**Prep Batch: 791516** 

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4950		ug/L		99	80 - 120	
Selenium	100	94.39		ug/L		94	80 - 120	

Lab Sample ID: MB 680-791519/1-A

Matrix: Water

Analysis Batch: 791897

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791519** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

Lab Sample ID: LCS 680-791519/2-A

Matrix: Water

Analysis Batch: 791897

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

**Prep Batch: 791519** 

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4801		ug/L		96	80 - 120	
Selenium	100	99.73		ug/L		100	80 - 120	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791513/1-A

Matrix: Water

Analysis Batch: 792230

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791513** 

MB MB **MDL** Unit **Analyte** Result Qualifier RL D Prepared Analyzed Dil Fac Aluminum 100 U 100 ug/L 08/03/23 05:51 08/07/23 15:57 5.00 U Antimony 5.00 ug/L 08/03/23 05:51 08/07/23 15:57 Arsenic 3.00 U 3.00 ug/L 08/03/23 05:51 08/07/23 15:57 5.00 Barium 5.00 U 08/03/23 05:51 08/07/23 15:57 ug/L Beryllium 0.500 U 0.500 08/03/23 05:51 08/07/23 15:57 ug/L Cadmium 0.500 U 0.500 ug/L 08/03/23 05:51 08/07/23 15:57 Chromium 5.00 U 5.00 ug/L 08/03/23 05:51 08/07/23 15:57 Cobalt 0.500 U 0.500 ug/L 08/03/23 05:51 08/07/23 15:57 Copper 5.00 U 5.00 ug/L 08/03/23 05:51 08/07/23 15:57 Iron 100 U 100 ug/L 08/03/23 05:51 08/07/23 15:57 Lead 2.50 U 2.50 ug/L 08/03/23 05:51 08/07/23 15:57 Magnesium 250 U 250 ug/L 08/03/23 05:51 08/07/23 15:57 Nickel 5.00 U 5.00 08/03/23 05:51 08/07/23 15:57 ug/L Thallium 1.00 U 08/03/23 05:51 08/07/23 15:57 1.00 ug/L Zinc 20.0 U 20.0 ug/L 08/03/23 05:51 08/07/23 15:57

**Eurofins Savannah** 

Job ID: 680-238537-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

#### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791513/2-A

Matrix: Water

Analysis Batch: 792230

Spike

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 791513

Rec

Rec

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5050	5120		ug/L		101	80 - 120	
Antimony	50.0	50.97		ug/L		102	80 - 120	
Arsenic	100	106.4		ug/L		106	80 - 120	
Barium	100	102.9		ug/L		103	80 - 120	
Beryllium	50.0	49.97		ug/L		100	80 - 120	
Cadmium	50.0	50.92		ug/L		102	80 - 120	
Chromium	100	109.3		ug/L		109	80 - 120	
Cobalt	50.0	55.15		ug/L		110	80 - 120	
Copper	100	113.2		ug/L		113	80 - 120	
Iron	4990	5167		ug/L		104	80 - 120	
Lead	500	530.5		ug/L		106	80 - 120	
Magnesium	5000	4977		ug/L		100	80 - 120	
Nickel	100	110.4		ug/L		110	80 - 120	
Thallium	50.0	50.20		ug/L		100	80 - 120	
Zinc	100	110.4		ug/L		110	80 - 120	

Lab Sample ID: MB 680-791518/1-A

Matrix: Water

Analysis Batch: 792490

Client Sample ID: Method Blank
Prep Type: Total Recoverable

**Prep Batch: 791518** 

, <b>,</b>									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Magnesium	250	U	250		ug/L		08/03/23 06:38	08/08/23 14:41	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1

Lab Sample ID: LCS 680-791518/2-A

**Matrix: Water** 

Analysis Batch: 792490

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

**Prep Batch: 791518** 

ı	Analysis Baton, 102-100							1 Top Batom. 101	0.0
I		Spike	LCS	LCS				%Rec	
I	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
I	Aluminum	5050	4652		ug/L		92	80 - 120	
I	Antimony	50.0	46.52		ug/L		93	80 - 120	
I	Arsenic	100	97.80		ug/L		98	80 - 120	
İ	Barium	100	95.86		ug/L		96	80 - 120	
I	Beryllium	50.0	48.56		ug/L		97	80 - 120	
I	Cadmium	50.0	46.20		ug/L		92	80 - 120	
İ	Chromium	100	100.4		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: 680-238537-1

Client Sample ID: Lab Control Sample

**Prep Type: Total Recoverable** 

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791518/2-A

Matrix: Water

Analysis Batch: 792490							Prep Batch: 791518
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cobalt	50.0	47.54		ug/L		95	80 - 120
Copper	100	102.8		ug/L		103	80 - 120
Iron	4990	5052		ug/L		101	80 - 120
Lead	500	485.1		ug/L		97	80 - 120
Magnesium	5000	4591		ug/L		92	80 - 120
Nickel	100	98.89		ug/L		99	80 - 120
Thallium	50.0	46.82		ug/L		94	80 - 120
Zinc	100	101.9		ug/L		102	80 - 120

### **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

**Metals** 

<b>Lab Sample ID</b> 680-238537-2	Client Sample ID Af68748	Prep Type Total Recoverable	Matrix Water	Method 3005A	Prep Batch
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 791516**

<b>Lab Sample ID</b> 680-238537-2	Client Sample ID Af68748	Prep Type  Total Recoverable	Matrix Water	Method 3005A	Prep Batch
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 791518**

<b>Lab Sample ID</b> 680-238537-1	Client Sample ID AF68739	Prep Type Total Recoverable	Matrix Water	Method 3005A	Prep Batch
680-238537-3	Af68711	Total Recoverable	Water	3005A 3005A	
680-238537-4	Af68717	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 791519**

Lab Sample ID 680-238537-1	Client Sample ID AF68739	Prep Type  Total Recoverable	Matrix Water	Method 3005A	Prep Batch
680-238537-3	Af68711	Total Recoverable	Water	3005A	
680-238537-4	Af68717	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Analysis Batch: 791719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-2	Af68748	Total Recoverable	Water	6010D	791516
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	6010D	791516
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791516

#### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-1	AF68739	Total Recoverable	Water	6010D	791519
680-238537-3	Af68711	Total Recoverable	Water	6010D	791519
680-238537-4	Af68717	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

#### Analysis Batch: 792230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-2	Af68748	Total Recoverable	Water	6020B	791513
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	6020B	791513
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791513

#### Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238537-1	AF68739	Total Recoverable	Water	6020B	791518
680-238537-3	Af68711	Total Recoverable	Water	6020B	791518
680-238537-4	Af68717	Total Recoverable	Water	6020B	791518

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## **QC Association Summary**

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

### **Metals (Continued)**

#### Analysis Batch: 792490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

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Job ID: 680-238537-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF68739** 

Lab Sample ID: 680-238537-1

Matrix: Water

Date Collected: 07/05/23 10:44 Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:08
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:01

Client Sample ID: Af68748 Lab Sample ID: 680-238537-2

Matrix: Water

Date Collected: 06/27/23 10:15 Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:18
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:42

Client Sample ID: Af68711 Lab Sample ID: 680-238537-3

Matrix: Water

Date Collected: 06/27/23 11:26 Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	<del></del>		791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:10
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:05

Client Sample ID: Af68717 Lab Sample ID: 680-238537-4

Date Collected: 06/27/23 13:57 Matrix: Water

Date Received: 08/02/23 10:45

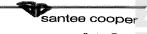
	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:13
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:09

#### **Laboratory References:**

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

**Eurofins Savannah** 

### **Chain of Custody**



Santee Coope One Riverwood Drive Moneks Comer, SC 29461 Phone (843)761 8000 Ext. 5148 Fax. (843)761-4175

Custome	er Email,	/Report Recipi	ient:	Date	Results Ne	eded b	y:		P	roject/	Task/	Unit #:	Rerun reques	t for any fi	agged QC
LCWIL	LIA	@santee	cooper.com		J			125	715	<u>/</u>	102.0	9. GØI .1/	36500 (Ye)s	No	
															sis Group
Labwork: (Internal only)		Sample Location Description	on/	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	Method     Report     Misc. s     Any ot	Comments d # ung limit sample info her notes	TOTAL METALS	
AF687	139	WAP-22		7/5/23	1044	VILW	1	P	G	G-W	2	6020		×	
AF-687	4-8	WBW-I		6/27/2	3 1012				1		1	- SEE SH	EET FOR RLS		
AF-687	111	WAP-I			1126										
AF-68-	רוז	WA-P-7			1357	1		Ţ			]	<del> </del>	RETURN SAMPLES		
												UPON CON	MACETION.		
												7			
												680-23	8537 Chain of Custody		
Relingui	shed by:	Employee#	Date	Time	Receiv	ed by:	T Er	nployee	# 1	Date		Time	Sample Receiving (Internal	Use Only)	
SHywa	ln	35594	8/2/23	0756	SHOC	1 -		SURIE		3/2/23		6756	TEMP (°C): 2 2/ 2 3	Initial:	
Relinqui	shed by:	Employee#	Date	Time	Receive			nployee		Date		Time	Correct pH: Yes No		
EHock	re	courier	8/2/23	1644	1)/1	Manager and the second	7,	A	8	-2.23	> /	1045	Preservative Lot#:		
Relinquis	shed by:	Employee#	Date	Time	Receive	ed by:	En	nployee	#	Date		Time			
					1 1111								Date/Time/Init for preserv	ative:	
	□ ME	TALS (all)	Nut	rients	MIS	r		Gw	psur	n		Coal		σ.	
□ Ag □ Al	□ Cu				□ BTEX	<u></u>	b	Wallbe		<u>u</u>	1	<u>Coai</u> Ultimate	Flyash	Oi Trans. O	
⊿ As	□ Fe		DC		□ Naphthal			200	sum(a	II.		□ % Moisture		□ %Mos	
D B	D Li	□ Sn	□ TP. □ NH	/TPO4 I3-N	□ VOC			below All				☐ Ash ☐ Sulfur	☐ % Carbon ☐ Mineral	☐ Color ☐ Acidity	
ØBa			OF.		□ Oil & Gre	ease		□ TO	C al meta	te.		□ BTUs	□ Minerai Analysis	Dielectri IF I	c Strength
Ø Be	□Mn		□ Cl □ NO	0	☐ Total Col	iform		□ Sol	ıble M	etals		☐ Volatile Ma		Dissolv	ed Gases
Z/Ca		/	□ Br		□ pH □ Dissolved	l As		Section 18 Section 18	ity (Ca: 4oistur			☐ CHN her Tests:	□ % Moisture	Used Oi	24/24/2004/00/00 (2007/00)
Д¦Са ДCd	□ Ma	□ Zn	□ NO		☐ Dissolved			□ Sulf	ites		(ם	CRF Scan	NPDES	Metals	in oil
ZÍ C₀			□ SO	4	☐ Rad 228			□ pH □ Chlo				IGI ineness	□ Oil & Grease	Hg)	Cr,Ni,Pb
Z/Cr	□ Ni	☐ Hg	-		□PCB			🗆 Part		te.	□P	articulate Matter	□ As □ TSS	TX GOFER	
<del></del>	17-40	1 - 22.11				64.	J <u> </u>	Sulfur			<u> </u>			.4371 1018	

Table of Reporting Limits for Groundwater Samples-- Metals Only

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	uġ/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	02								
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									

### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-238537-1

Login Number: 238537 List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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

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### **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-238537-1

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
South Carolina	State	98001	06-30-23 *

 $^{\star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

Eurofins Savannah





gel.com

August 17, 2023

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

Re: ABS Lab Analytical Work Order: 630054

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 21, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

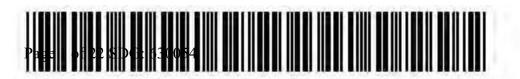
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 630054 GEL Work Order: 630054

#### 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 Pulit Rnc

Page 2 of 22 SDG: 630054

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

Certificate of Analysis

Report Date: August 17, 2023

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: AF68725 Sample ID: 630054001

Matrix: GW

Collect Date: 18-JUL-23 11:49
Receive Date: 21-JUL-23
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting	5									
GFPC, Ra228, Liquid '	"As Received"										
Radium-228		1.69	+/-1.08	1.60	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		3.46	+/-1.25			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	լuid "As Recei	ved"									
Radium-226		1.76	+/-0.637	0.695	1.00	pCi/L		LXP1	08/17/23	0843 2464194	3
The following Analytic	cal Methods w	vere perfo	rmed:								
3.511	ъ						. 1	~			

Method Description Analyst Comments

FPA 904 0/SW846 9320 Modified

1 EPA 904.0/SW846 9320 Modified

2 Calculation 3 EPA 903.1 Modified

Surrogate/Tracer RecoveryTestResultNominalRecovery%Acceptable LimitsBarium-133 TracerGFPC, 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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Certificate of Analysis

Report Date: August 17, 2023

SOOP00119

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: AF68742 Sample ID: 630054002

Matrix: GW

Collect Date: 18-JUL-23 14:53
Receive Date: 21-JUL-23
Collector: Client

630054002 Client ID: SOOP001

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analys	t Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	-0.146	+/-0.647	1.34	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium-22	28 Calculation	n "See Pa	rent Products"								
Radium-226+228 Sum		0.686	+/-0.748			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	id "As Recei	ved"									
Radium-226		0.686	+/-0.376	0.411	1.00	pCi/L		LXP1	08/17/23	0843 2464194	3
The following Analytica	al Methods w	ere perfo	rmed:								
Method	Description					F	Analys	t Comments			

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery 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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Certificate of Analysis

Report Date: August 17, 2023

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: AF68747 Sample ID: 630054003

Matrix: GW

Collect Date: 17-JUL-23 10:08
Receive Date: 21-JUL-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid "	As Received"									
Radium-228	U	0.780	+/-1.07	1.83	3.00	pCi/L		JE1 08/09/23	1337 2464193	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		0.830	+/-1.12			pCi/L		NXL1 08/17/23	1207 2464198	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226	U	0.0502	+/-0.326	0.672	1.00	pCi/L		LXP1 08/17/23	0843 2464194	3
The following Analytic	al Methods w	ere perfo	ormed:							
Method	Description					I	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 83.6 (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: August 17, 2023

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF68731 Sample ID:

Matrix: GW

Collect Date: 17-JUL-23 11:15 Receive Date: 21-JUL-23 Client Collector:

Description

Project: SOOP00119 630054004 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	1.43	+/-0.956	1.46	3.00	pCi/L		JE1	08/09/23	1337 246419	3 1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		3.62	+/-1.18			pCi/L		NXL1	08/17/23	1207 246419	8 2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.19	+/-0.690	0.625	1.00	pCi/L		LXP1	08/17/23	0915 246419	4 3
The following Analytical Methods were performed:											

Surrogata/Tracar Pacove	ery Test	Recult	Nominal	Recovery0/2	Acceptable Limits
3	EPA 903.1 Modified				
2	Calculation				
1	EPA 904.0/SW846 9320 Modified				

**Analyst Comments** 

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

Method

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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 17, 2023

SOOP00119

SOOP001

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: AF68723 Sample ID: 630054005

Matrix: GW

Collect Date: 17-JUL-23 13:00
Receive Date: 21-JUL-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	3									
GFPC, Ra228, Liquid	l "As Received	"									
Radium-228		2.31	+/-0.984	1.25	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium	-228 Calculation	on "See Par	rent Products"								
Radium-226+228 Sum		2.99	+/-1.09			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Rece	ived"									
Radium-226	_	0.688	+/-0.472	0.659	1.00	pCi/L		LXP1	08/17/23	0915 2464194	3
The fellowing Analys	tical Mathada r	rrana nanfan	mad.								

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 86 (15%-125%)

#### Notes:

Method

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: August 17, 2023

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: AF68724 Sample ID: 630054006

Matrix: GW

Collect Date: 17-JUL-23 13:05
Receive Date: 21-JUL-23
Collector: Client

Description

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.607	+/-0.706	1.18	3.00	pCi/L		JE1	08/09/23	1337 2464193	3 1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		1.46	+/-0.825			pCi/L		NXL1	08/17/23	1207 246419	3 2
Rad Radium-226											
Lucas Cell, Ra226, Liquid "As Received"											
Radium-226		0.856	+/-0.428	0.473	1.00	pCi/L		LXP1	08/17/23	0915 2464194	4 3
The following Analytical Methods were performed:											

Surrogate/Tracer Recove		Result	Nominal	Recovery%	Acceptable Limits					
3	EPA 903.1 Modified									
2	Calculation									
1	EPA 904.0/SW846 9320 Modified									

**Analyst Comments** 

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 91.2 (15%-125%)

#### Notes:

Method

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: August 17, 2023

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: AF68746 Sample ID: 630054007

Matrix: GW

Collect Date: 17-JUL-23 14:24
Receive Date: 21-JUL-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228		1.92	+/-0.974	1.34	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		6.65	+/-1.45			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		4.73	+/-1.07	0.573	1.00	pCi/L		LXP1	08/17/23	0916 2464194	3
The following Analytic	al Methods w	ere perfo	ormed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 85.2 (15%-125%)

#### Notes:

Method

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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 17, 2023

SOOP00119

SOOP001

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: AF68726 Sample ID: 630054008

Matrix: GW

Collect Date: 13-JUL-23 14:16
Receive Date: 21-JUL-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid "	'As Received'	1									
Radium-228	U	1.84	+/-1.23	1.93	3.00	pCi/L		JE1	08/09/23	1338 2464193	1
Radium-226+Radium-2	228 Calculation	on "See Pa	rent Products"								
Radium-226+228 Sum		2.85	+/-1.31			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liqi	uid "As Recei	ived"									
Radium-226		1.01	+/-0.469	0.559	1.00	pCi/L		LXP1	08/17/23	0916 2464194	3
The following Analytic	ral Methods w	vere nerfo	rmed:								

The following Analytical Methods were performed:

Description

2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

93.9

(15%-125%)

#### Notes:

Method

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

EPA 904.0/SW846 9320 Modified

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: August 17, 2023

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: AF68727 Sample ID: 630054009

Matrix: GW

Collect Date: 13-JUL-23 14:21
Receive Date: 21-JUL-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	1.25	+/-0.862	1.32	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		2.17	+/-0.944			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.927	+/-0.386	0.295	1.00	pCi/L		LXP1	08/17/23	0916 2464194	3
The following Analytic	cal Methods w	ere perfo	ormed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 91.6 (15%-125%)

#### Notes:

Method

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: August 17, 2023

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: AF68730 Sample ID: 630054010

Matrix: GW

Collect Date: 13-JUL-23 10:01
Receive Date: 21-JUL-23
Collector: Client

730 Project: SOOP00119 4010 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid ".	As Received"									
Radium-228	U	0.272	+/-0.745	1.38	3.00	pCi/L		JE1 08/09/23	1337 2464193	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		2.75	+/-1.03			pCi/L		NXL1 08/17/23	1207 2464198	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		2.47	+/-0.719	0.614	1.00	pCi/L		LXP1 08/17/23	0916 2464194	3
The following Analytic	al Methods w	ere perfo	ormed:							
Method	Description					F	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified	EPA 904.0/SW846 9320 Modified							
2	Calculation								
3	EPA 903.1 Modified								
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 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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Certificate of Analysis

Report Date: August 17, 2023

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: AF68729 Sample ID: 630054011

Matrix: GW

Collect Date: 13-JUL-23 11:24
Receive Date: 21-JUL-23
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		2.66	+/-1.11	1.42	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		8.89	+/-1.58			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		6.23	+/-1.12	0.394	1.00	pCi/L		LXP1	08/17/23	0916 2464194	3
The following Analytic	cal Methods w	vere perfo	ormed:								

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

Surrogate/Tracer RecoveryTestResultNominalRecovery%Acceptable LimitsBarium-133 TracerGFPC, Ra228, Liquid "As Received"80.5(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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 17, 2023

SOOP00119

SOOP001

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: AF68728 Sample ID: 630054012

Matrix: GW

Collect Date: 13-JUL-23 13:32
Receive Date: 21-JUL-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting	ζ	<u> </u>					<b>-</b>	<u> </u>		
GFPC, Ra228, Liquid '	"As Received"	1									
Radium-228		2.03	+/-1.14	1.70	3.00	pCi/L		JE1	08/09/23	1337 2464193	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.68	+/-1.28			pCi/L		NXL1	08/17/23	1207 2464198	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	juid "As Recei	ved"									
Radium-226		1.65	+/-0.572	0.492	1.00	pCi/L		LXP1	08/17/23	0947 2464194	3
The following Analyti	cal Methods w	vere perfo	ormed:								

Method		Description
Monitor		Description

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	GEPC, Ra228, Liquid "As Received"			80	(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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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 17, 2023

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 630054

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Ti	me
Rad Gas Flow											
Batch 2464193 —											
QC1205466431 630054001 DUP											
Radium-228		1.69		1.53	pCi/L	10.2		(0% - 100%)	JE1	08/09/23 1	13:36
	Uncertainty	+/-1.08		+/-0.862							
QC1205466432 LCS											
Radium-228	79.4			73.7	pCi/L		92.8	(75%-125%)		08/09/23 1	13:36
	Uncertainty			+/-4.40							
QC1205466430 MB											
Radium-228			U	0.374	pCi/L					08/09/23 1	13:36
	Uncertainty			+/-1.10							
Rad Ra-226											
Batch 2464194 ——											
QC1205466427 630054001 DUP											
Radium-226		1.76		1.93	pCi/L	9.03		(0% - 100%)	LXP1	08/17/23 0	)9:47
	Uncertainty	+/-0.637		+/-0.646							
QC1205466429 LCS											
Radium-226	25.6			20.0	pCi/L		78.3	(75%-125%)		08/17/23 0	)9:47
	Uncertainty			+/-1.70							
QC1205466426 MB											
Radium-226			U	0.222	pCi/L					08/17/23 0	)9:47
	Uncertainty			+/-0.288							
QC1205466428 630054001 MS											
Radium-226	131	1.76		121	pCi/L		91.2	(75%-125%)		08/17/23 0	)9:47
	Uncertainty	+/-0.637		+/-9.22							

#### **Notes:**

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 15 of 22 SDG: 630054

Page 1 of 2

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# **QC** Summary

Workorder: 630054

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

<b>Parmname</b>	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

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.

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<sup>^</sup> 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.

<sup>\*</sup> Indicates that a Quality Control parameter was not within specifications.

# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 630054

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2464193

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

<b>GEL Sample ID#</b>	Client Sample Identification
630054001	AF68725
630054002	AF68742
630054003	AF68747
630054004	AF68731
630054005	AF68723
630054006	AF68724
630054007	AF68746
630054008	AF68726
630054009	AF68727
630054010	AF68730
630054011	AF68729
630054012	AF68728
1205466430	Method Blank (MB)
1205466431	630054001(AF68725) Sample Duplicate (DUP)
1205466432	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.

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

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

**Analytical Batch:** 2464194

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

GEL Sample ID#	Client Sample Identification
630054001	AF68725
630054002	AF68742
630054003	AF68747
630054004	AF68731

Page 17 of 22 SDG: 630054

630054005	AF68723
630054006	AF68724
630054007	AF68746
630054008	AF68726
630054009	AF68727
630054010	AF68730
630054011	AF68729
630054012	AF68728
1205466426	Method Blank (MB)
1205466427	630054001(AF68725) Sample Duplicate (DUP)
1205466428	630054001(AF68725) Matrix Spike (MS)
1205466429	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, 1205466428 (AF68725MS), 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.

Page 18 of 22 SDG: 630054

Customer Email/Report Recipient:

# **Chain of Custody**

Date Results Needed by:



630054

Project/Task/Unit #:

	WILLA	ll/Report Recip @santee	cooper.com	Date R	desults N	eeded b	y:	125				Unit #: 09. GØ1. 1	Rerun re		No		gged	
	orks ID # nal use	Sample Locati Description	on/	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	Rep     Mis	Comments thod # corting limit c. sample info other notes		RAD 226	RAD 228	TOTAL RAD CALC	
AFE	8725	WAP-13		7/18/23	1149	WK	2	P	G	GW	2				1	1	X	
AF6	8742	WAP-25		1	1453	1	1	1	1		1				1	1	1	
	8747	WAP - 29		7/17/23	1008										1	1		
1	31	WAP-15		1	1115										$\dagger$			
	23	WAP-12			(300													
	24	WAP-12 DU	P		1305													
1	46	WAP-28		1	1424		1	1	1	_	1				1	1	1	
	nquished by:	Employee#	Date	Time	Receiv	red by:	Er	nployee	#	Date		Time	Sample Receiving (In TEMP (°C):_		se On nitial			
Sylan		35594	7/21/23	0945	114	0	_	GEL		/21/2	3	248	Correct pH: Yes	No				7
Relii	nquished by:		Date	Time	Receiv	red by:	-	nployee	#	Date		Time	Preservative Lot#:	140				
Relin	iquished by:	Employee#	7.21.21 Date	Time	UAX.	ed by:	-	JEC nployee	<i> </i>	21   2 Date	3	Time	Treservative Edul					
		7.10 6201 600 600					SHTMS			Signaline	No.		Date/Time/Init for p	reservat	tive:			
☐ Ag ☐ Al ☐ As ☐ B ☐ Ba ☐ Ca ☐ Cd ☐ Co ☐ Cr	MH   Ct   Ct   Fe   Ct   Ct   Ct   Ct   Ct   Ct   Ct   C	B □ Se □ Sn □ Sr □ Sr □ Ti □ Ti □ V □ □ Zn □ Hg	Nutropy   Too	C TPO4 3-N 2	MIS  DETEX  Naphtha  THM/H  VOC  Oil & Gr  E. Coli  Total Co  pH  Dissolve  Dissolve  Rad 226  Rad 228	lene AA ease liform		Walfbor	sum(a y) M C al meta able Ma ty (Cal foistum ites	ls etals SO4)	O D:	Coal Ultimate  % Moist Ash Sulfur BTUs Volatile CHN ther Tests: XRF Scan HGI Fineness Particulate Ma	Ure ☐ Animonia ☐ LOI ☐ % Carbon ☐ Mineral Analys  Matter ☐ Sieve ☐ % Moistur  NPDES ☐ Oil & Greas	sis	DA DE DE DE DE DE DE DE DE DE DE DE DE DE	Mois olor oldity electric T issolve d Oil ashpo etals i is, Cd.	Qual. ture Strengt ed Gas	th es

Customer Email/Report Recipient:

Date Results Needed by:

# **Chain of Custody**



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

LCWIL		Report Recipi @santee	ient: cooper.com		Results N	eeded b /	y:	1250				Unit #:	1 /3650	Rerun red			agged (
			,							<u> </u>		,			Yes No		sis Group
Labwork (Internal only)	A CONTRACTOR OF THE PARTY	Sample Locati Description	on/	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	•	Com Method # Reporting lim Misc. sample Any other not	info	CC ANO	RAD 228	2.0
AF68-	126	WAP-14		7/13/23	1416	WJK	2	P	G	GW	2				1	1	X
AF687	27	WAP-14 DI	UP.	1	1421	1	1	1	1	1	1				1	1	11
4F687	30	WAP-140		1	1001		1	1	1	1	1					+	H
AF687		WAP-14B					1				+					+	H
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AF687	2.8	WAP-14A		7	1332	1	7	7			1	-			- 1	1	11
					-											1	
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Relinquis	shed by:	Employee#	Date	Time	Receiv	ed by:	En	nployee i	#	Date		Time	Sample TEMP	Receiving (Inte	rnal Use C Initia		
Mysour		35594		०९५५	De			GEL	7	121/2	3 0	0945					-
Relinquis	hed by:	Employee#	Date	Time	Receiv	ed by:	En	nployee #	#	Date		Time	Correc	t pH: Yes	No		
SII	7	RE.1	721-23	1555	EL	Met	16	all	17	121	M	1555	Preser	vative Lot#:			
Relinquis	hed by:	Employee#	Date	Time	Receiv	ed by:	En	ployee t	*	Date	200	Time					
													Date/T	ime/Init for pre	servative:	E.	
		TALS (all)	Nutr	ients	B.A.I.C			C						700000	100	8/8	50 P (0)
□Ag	□ Cu	□ Sb	□ TO	ENGINEERING AND ADDRESS.	MIS BTEX	<u></u>		Wallbo:	osum		4	Co		Flyash	100	Oi	
□ A1	□ Fe	□ Se			☐ Naphthal				um(al	L		Ultimate  ☐ % Mo		☐ Ammonia ☐ LOI	CHIEF STRANGESCO	ans. Oi	l Qual.
□ As	□К	□ Sn	□ TP/	ГРО4	□ THM/HA	AA		below	)			□ Ash	.istato	□ % Carbon	E.	Color .	
□В	□ Li	□ Sr	□ NH3	3-N	□ VOC □ Oil & Gr	ease	4 -	I AIN				☐ Sulfur		☐ Mineral		Acidity	
□ Ba	□Mg	□ Ti			□ E. Coli			Tota	metal			□ BTUs		Analysis		FT	Strength
□ Be	□Mn	□ TI		,	☐ Total Col ☐ pH	iform		□ Solu	ble Me	tals			ile Matter	☐ Sieve	177	Dissolv	ed Gases
□ Ca	□Мо	υV	□ Br		□ pH □ Dissolved	l As	4		ty (CaS loisture			☐ CHN her Test	S:	☐ % Moisture		ed Oil	
To District			□ NO3		☐ Dissolved			□ Sulfi			MEDICAL PROPERTY.	RF Scan		NPDES		Flashpo Metals i	
□ Cd	□ Na	□ Zn	□ SO4	And in concession of the	☐ Rad 226 ☐ Rad 228	1	1	□ pH			OH		15	□ Oil & Grease		(As.Cd.	Cr,Ni.Pb
□ Co	□ Ni	□ Hg		200 mm	□ PCB			☐ Chlo		TAIL T	100000	ineness articulate	Matter	☐ As		Hg)	
□ Cr	□РЬ	□ CrVI												OTSS			

Client: 500F			SD	G/AR/COC/Work Order: 4000000000000000000000000000000000000
Received By: EG			1	te Received: 7/21/23 15.55
Carrier and Tracking Number			Da	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Suspected Hazard Information	Yes	°N.	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		>	Haz	ard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
Did the client designate the samples are to be eccived as radioactive?		y	co	C notation or radioactive stickers on containers equal client designation.
Did the RSO classify the samples as adioactive?		X	Ma	kimum Net Counts Observed* (Observed Counts - Area Background Counts):CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
Did the client designate samples are hazardous?		X		C notation or bazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	III	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)
Shipping containers received intact and sealed?	1			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	1			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg, C)?*	1			Preservation Method: (Wet Ice   Ice Packs   Dry ice   None   Other: *all temperatures are recorded in Celsius   TEMP:
Daily check performed and passed on IR temperature gun?	1			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?			1	Sample ID's and Containers Affected: WAP-14 DUP, WAP-15, WAP-14 PH > 3
7 Do any samples require Volatile Analysis?			1	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?	1			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	1			fD's and containers affected:
Date & time on COC match date & time on bottles?	1			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
Number of containers received match number indicated on COC?	V	***		Circle Applicable: No container count on COC Other (describe)
Are sample containers identifiable as GEL provided by use of GEL labels?	1			Cal Saladia Manaya il di Obrata il
COC form is properly signed in relinquished/received sections?	1			Circle Applicable: Not relinquished Other (describe)

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 17 August 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Pennsylvania NELAP  Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee Teves NEL A P	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780





2040 Savage Road | Charleston, SC 29407 843 556 8171

gel.com

September 08, 2023

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

Re: ABS Lab Analytical Work Order: 635742

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 01, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 635742 GEL Work Order: 635742

#### 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
- H Analytical holding time was exceeded
- 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

Page 2 of 13 SDG: 635742

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

# Certificate of Analysis

Project:

Client ID:

Report Date: September 8, 2023

SOOP00119

SOOP001

Company: Santee Cooper P.O. Box 2946101 Address:

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF75783 Sample ID: 635742001

Matrix: GW

Collect Date: 23-AUG-23 13:49 Receive Date: 01-SEP-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Ion Chromatograp	ohy									
EPA 300.0 Fluorio	de, Liquid "As Rece	eived"								
Chloride		212	3.35	10.0	mg/L		50 JLD1	09/03/23	1326 2486861	1
Sulfate		57.6	6.65	20.0	mg/L		50			
Fluoride	J	0.0685	0.0330	0.100	mg/L		1 JLD1	09/02/23	1419 2486861	2
The following Ar	nalytical Methods w	ere performed:								
Method	Description				1	Analys	st Commen	ts		

EPA 300.0 EPA 300.0

#### **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

SQL: Sample Quantitation Limit MDC: Minimum Detectable Concentration

Page 3 of 13 SDG: 635742

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

# Certificate of Analysis

Project:

Client ID:

Report Date: September 8, 2023

SOOP00119

SOOP001

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: AF75784 Sample ID: 635742002

Matrix: GW

Collect Date: 23-AUG-23 11:09

Receive Date: 01-SEP-23 Collector: Client

Parameter	Oualifier	Result	DL	RL	Units	PF	DF Anal	vet Data	Time Batch	Mathod
1 aranicici	Qualifier	Result	DL	KL	Omis	11	DI Allai	ysi Daic	Time Batch	Memou
Ion Chromatograp	phy									
EPA 300.0 Fluori	de, Liquid "As Rec	eived"								
Chloride		354	6.70	20.0	mg/L		100 JLD1	09/03/23	1358 2486861	1
Sulfate		99.8	13.3	40.0	mg/L		100			
Fluoride		0.233	0.0330	0.100	mg/L		1 JLD1	09/02/23	1451 2486861	2
The following A	nalytical Methods v	were performed:								
Method	Description	1		-		Analys	st Commen	ts	-	

1 EPA 300.0 2 EPA 300.0

#### **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

Page 4 of 13 SDG: 635742

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

# Certificate of Analysis

Project:

Client ID:

Report Date: September 8, 2023

SOOP00119

SOOP001

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: AF75785 Sample ID: 635742003

Matrix: GW

Collect Date: 23-AUG-23 11:14
Receive Date: 01-SEP-23
Collector: Client

DLRL Units PF Parameter Qualifier Result DF Analyst Date Time Batch Method Ion Chromatography EPA 300.0 Fluoride, Liquid "As Received" Fluoride 0.0330 0.100 0.237 mg/L 1 JLD1 09/02/23 1523 2486861 1 Chloride 6.70 20.0 100 JLD1 09/03/23 1430 2486861 mg/L Sulfate 96.0 13.3 40.0 mg/L 100 The following Analytical Methods were performed:

Method Description Analyst Comments

1 EPA 300.0 2 EPA 300.0

#### **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

Page 5 of 13 SDG: 635742

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

# Certificate of Analysis

Project:

Client ID:

Report Date: September 8, 2023

SOOP00119

SOOP001

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: AF75786 Sample ID: 635742004

Matrix: GW

Collect Date: 23-AUG-23 12:35 Receive Date: 01-SEP-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatograp	phy											
EPA 300.0 Fluori	ide, Liquid "As Rec	eived"										
Chloride	_	862	13.4	40.0	mg/L		200	JLD1	09/03/23	1502	2486861	1
Sulfate		650	26.6	80.0	mg/L		200					
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/02/23	1554	2486861	2
The following A	nalytical Methods v	vere performed:										
Method	Description				1	Analys	st Coi	nment	s			
1	ED 1 200 0											

EPA 300.0 2 EPA 300.0

#### **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

Page 6 of 13 SDG: 635742

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

QC Summary

Report Date: September 8, 2023

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 635742

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Ion Chromatography Batch 2486861									
QC1205506681 635758008 DUP Chloride	Н	8.12	Н	8.10	mg/L	0.269		(0%-20%) JLD1	09/03/23 02:32
Fluoride	Н	0.123	Н	0.126	mg/L	2.81		(+/-0.100)	
Sulfate	Н	22.7	Н	22.6	mg/L	0.432		(0%-20%)	09/03/23 16:06
QC1205506678 LCS Chloride	5.00			4.70	mg/L		94.1	(90%-110%)	09/03/23 00:56
Fluoride	2.50			2.41	mg/L		96.4	(90%-110%)	
Sulfate	10.0			9.54	mg/L		95.4	(90%-110%)	
QC1205506677 MB Chloride			U	ND	mg/L				09/03/23 00:24
Fluoride			U	ND	mg/L				
Sulfate			U	ND	mg/L				
QC1205506682 635758008 PS Chloride	5.00 Н	8.12	Н	13.4	mg/L		105	(90%-110%)	09/03/23 03:04
Fluoride	2.50 Н	0.123	Н	2.43	mg/L		92.2	(90%-110%)	
Sulfate	10.0 Н	11.3	Н	21.1	mg/L		97.4	(90%-110%)	09/03/23 16:38

**Notes:** 

Page 7 of 13 SDG: 635742

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

# **QC** Summary

Workorder: 635742

Parmname

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- N1 See case narrative
- 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.
- B The target analyte was detected in the associated blank.
- 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
- J See case narrative for an explanation

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.

Page 8 of 13 SDG: 635742

#### General Chemistry Technical Case Narrative Santee Cooper SDG #: 635742

**Product: Ion Chromatography Analytical Method:** EPA 300.0

**Analytical Procedure:** GL-GC-E-086 REV# 33

**Analytical Batch:** 2486861

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

GEL Sample ID#	Client Sample Identification
635742001	AF75783
635742002	AF75784
635742003	AF75785
635742004	AF75786
1205506677	Method Blank (MB)
1205506678	Laboratory Control Sample (LCS)
1205506681	635758008(AF71297) Sample Duplicate (DUP)
1205506682	635758008(AF71297) Post Spike (PS)

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**

#### **Holding Times**

Samples (See Below) were received by the laboratory outside of the method specified holding time. The data is qualified.

Sample	Analyte	Value
1205506681 (AF71297DUP)		Received 01-SEP-23, out of holding 30-AUG-23
1205506682 (AF71297PS)		Received 01-SEP-23, out of holding 30-AUG-23

#### **Sample Dilutions**

The following samples 1205506681 (AF71297DUP), 1205506682 (AF71297PS), 635742001 (AF75783), 635742002 (AF75784), 635742003 (AF75785) and 635742004 (AF75786) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Amalasta	635742								
Analyte	001	002	003	004					
Chloride	50X	100X	100X	200X					

Page 9 of 13 SDG: 635742

#### **Miscellaneous Information**

#### **Manual Integrations**

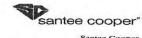
Sample 635742004 (AF75786) was manually integrated to correctly position the baseline as set in the calibration standards.

#### **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.

Page 10 of 13 SDG: 635742

# **Chain of Custody**



Santee Cooper

	3 67 mer Email	니고 /Report Rec	ipient:	Date R	esults N	eeded b	y:		Pro	oject/	Task/l	Jnit #:		Phone:	loneks ( (843)76 Far	Corner, 1-8000 k: (843	sc 2946 Ext. 514 ()761-417
LIND	A. WILL	AMS @sant	eecooper.con	,		,		125	915	, JM	102.0	9.GØ1.1	1 3650	∞ Yes	No		
			ccoopenion													nalysis	Group
(Internonly)	orks ID # nal use	Sample Loo 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)	<ul><li>Metl</li><li>Repo</li><li>Miso</li><li>Any</li></ul>	Comr nod # orting limi a sample i other note	nfo	F, CI, SO4		
AF7	5783	WAP-27		8/23/23	1349	ZDM BB	ı	P	G	G-W	1				×		
1	84	WAP - 25	3		1109				1						×		
	85	WAP- 28	D		1114										×		
1	86	WAP-29			1235	1	1	1	1	]	1				×		
Reli	nquished by:	Employe	ee# Date	Time	Rece	ived by:		mployee	#	Date	2	Time		e Receiving (Interna			
de	-W	- 3485			1	W		GEL		7/1/2	-	0847		ct pH: Yes N			
Reli	nquished by:		B OF PARTY	Time	Recei	ived by:		mployee	# /	Date		Time /		vative Lot#:			
Keli	quished by:	Employe	9-j-73 ee# Date	Time	Recei	ived by:	) (	O+(	#	Date	20	Time					
		101-101-101-101-101-101-101-101-101-101	200-00-00-00-00-00-00-00-00-00-00-00-00-										Date/1	Fime/Init for preser	vative:		
□Ag		ETALS (al	ALL SECTION AND ADDRESS OF THE PARTY OF THE	utrients	M □ BTEX	ISC.		Gy Wallb	/psur	n		<u>Coal</u> Ultimate		Flyash	e Te	Oi	l l Qual.
□ A1	□F		01	DOC	□ Naphth	alene			sum(a	ıll		□ % Mois	ture	□ Ammonia □ LOI	<b>《</b> 连集	Mois Colur	
□As	□ K	A STORY OF STREET		P/TPO4 NH3-N	□ VOC			DA	IM		1	☐ Ash ☐ Sulfur	253	☐ % Carbon ☐ Mineral	711	Acidity	
□B				A CONTRACTOR	□ Oil & O			OTO	otal meta	als	<b>M</b>	□ BTUs		Analysis	"""想	FT	Strength
□Ba				C1 NO2	☐ Total C			□Sc	luble M	letals		☐ Volatile	Matter	☐ Sieve ☐ % Moisture		Dissolved Oi	ed Gases
□ Be				SUSSECULARIES SHOWN	□ pH □ Dissolv	red As			rity (Ca Moistur		C	ther Tests:		1.76 MOISTUIC		lashpo	
□ Ca		A CHARLES A PROPERTY		NO3	☐ Dissolv	ed Fe		□ Su	dfites		ALC: NO.	XRF Scan	as TVI	NPDES	DI	Metals	
□ Cd	No. 19 Charles	<b>公里美国公司</b>		804	☐ Rad 22			10 D	l dorides	K PA	0	HGI Fineness	13/3	□ Oil & Grease		Hg)	Salu Marie
□ Co	□N		and the same of th	7	□ PCB		- 1		miele Si		D	Particulate M	atter	□ As □ TSS		DEER	
□ Cr	□Р	b	VI	No and an	4-0-2	9/9/10		e Sunur	To Sale	2013		7 77 18	CTC EST		1	100	

	ent: OF			SE	G/AR/COC/Work Order: USS 14'L						
Rec	eived By: MVH				ate Received:						
	Carrier and Tracking Number				Date Received:  Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other						
Susp	oected Hazard Information	Yes	No.	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.						
A)SI	nipped as a DOT Hazardous?		1	Ha	zard Class Shipped:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No						
	id the client designate the samples are to be ved as radioactive?		/	CC	OC notation or radioactive stickers on containers equal client designation.						
	id the RSO classify the samples as active?		1	Ma	ximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3						
DV P			/	CC	C notation or hazard labels on containers equal client designation.						
J) L	id the client designate samples are hazardous?			ИI	O or E is yes, select Hazards below.						
E) D	id the RSO identify possible hazards?		_		PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:						
	Sample Receipt Criteria	Yes	NA	No							
1	Shipping containers received intact and sealed?	-			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)						
2	Chain of custody documents included with shipment?	-			Circle Applicable: Client contacted and provided COC COC created upon receipt						
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*	/	-		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius  TEMP:						
4	Daily check performed and passed on IR temperature gun?	-			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):						
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)						
6	Samples requiring chemical preservation at proper pH?	/	X		Sample ID's and Containers Affected:  NUL 9  If Preservation added, Lot#:						
7	Do any samples require Volatile Analysis?			1	If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer)    Voliquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA  Sample ID's and containers affected:						
8	Samples received within holding time?	/			ID's and tests affected:						
9	Sample ID's on COC match ID's on bottles?	1			ID's and containers affected:						
	Date & time on COC match date & time on bottles?	1			Circle Applicable: No dates on containers  No times on containers  COC missing info  Other (describe)						
	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)						
-	Are sample containers identifiable as GEL provided by use of GEL labels?			-							
13	COC form is properly signed in relinquished/received sections?	1			Circle Applicable: Not relinquished Other (describe)						

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 08 September 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Pennsylvania NELAP  Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee Teves NEL A P	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 8/9/2023 8:43:07 AM

# **JOB DESCRIPTION**

125915/JM02.08.G01.1/36500

# **JOB NUMBER**

680-238535-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **Eurofins Savannah**

#### **Job Notes**

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

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

### **Authorization**

Generated 8/9/2023 8:43:07 AM

Authorized for release by Jerry Lanier, Project Manager I Jerry.Lanier@et.eurofinsus.com (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

Job ID: 680-238535-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative** 680-238535-1

#### Receipt

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

#### **Receipt Exceptions**

The following samples were listed on the Chain of Custody (COC); however, no samples were received: AF68753 (680-238535-1), AF68759 (680-238535-2), AF68752 (680-238535-3), AF68735 (680-238535-4), AF68756 (680-238535-5), AF68758 (680-238535-6), AF68759 (680-238535-7), AF68736 (680-238535-8) and AF68754 (680-238535-9).

Sample -7 not found in cooler.

Sample 9 not listed on COC.

#### 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.G01.1/36500

Job ID: 680-238535-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238535-1	AF68753	Water	07/06/23 13:08	08/02/23 10:45
680-238535-2	AF68759	Water	07/06/23 13:13	08/02/23 10:45
680-238535-3	AF68752	Water	07/06/23 14:09	08/02/23 10:45
680-238535-4	AF68735	Water	07/05/23 09:35	08/02/23 10:45
680-238535-5	AF68756	Water	07/05/23 11:39	08/02/23 10:45
680-238535-6	AF68758	Water	07/06/23 09:47	08/02/23 10:45
680-238535-8	AF68736	Water	07/06/23 11:21	08/02/23 10:45
680-238535-9	AF68754	Water	07/06/23 13:13	08/02/23 10:45

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
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

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# **Definitions/Glossary**

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

#### **Qualifiers**

Metals

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

#### Glossary

MDC

Clossary	
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)

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)

Minimum Detectable Concentration (Radiochemistry)

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.G01.1/36500

Client Sample ID: AF68753

Job ID: 680-238535-1

Lab	Sample	ID:	680-238535-1

Analyte Calcium	Result 90200	Qualifier	RL	MDL	Unit ug/L	Dil Fac	D —	Method 6010D	Prep Type  Total
Calculii	90200		300		ug/L	'		0010D	Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total Recoverable
Iron	3330		100		ug/L	1		6020B	Total Recoverable

# Client Sample ID: AF68759 Lab Sample ID: 680-238535-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	190000		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	4.53		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	41.7		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	433		100		ug/L	1		6020B	Total
									Recoverable

# Client Sample ID: AF68752 Lab Sample ID: 680-238535-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	18700		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	10.7		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	32.8		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.810		0.500		ug/L	1		6020B	Total
									Recoverable
Iron	608		100		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF68735 Lab Sample ID: 680-238535-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92600		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	216		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	139		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.780		0.500		ug/L	1		6020B	Total
									Recoverable
Iron	1040		100		ug/L	1		6020B	Total
									Recoverable

# Client Sample ID: AF68756 Lab Sample ID: 680-238535-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62200		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	77.6		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	33.3		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	1.09		0.500		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

8/9/2023

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# **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

Client Sample ID: AF68756 (Continued)	Lab Sample ID: 680-238535-5
---------------------------------------	-----------------------------

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa	c D	Method	Prep Type
Iron	1750		100		ug/L		- 1	6020B	Total
									Recoverable

### Client Sample ID: AF68758 Lab Sample ID: 680-238535-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	193000		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	4.57		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	41.4		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	466		100		ug/L	1		6020B	Total
									Recoverable

# Client Sample ID: AF68736 Lab Sample ID: 680-238535-8

Analyte	Result	Qualifier R	_ MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	639000	50	)	ug/L	1	_	6010D	Total
								Recoverable
Arsenic	173	3.0	)	ug/L	1		6020B	Total
								Recoverable
Barium	104	5.0	)	ug/L	1		6020B	Total
								Recoverable
Cobalt	0.640	0.50	)	ug/L	1		6020B	Total
								Recoverable
Iron	2750	10	)	ug/L	1		6020B	Total
_								Recoverable

### Client Sample ID: AF68754 Lab Sample ID: 680-238535-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	88000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	3320		100		ug/L	1		6020B	Total
									Recoverable

8/9/2023

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-1

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Job ID: 680-238535-1

Matrix: Water

Client Sample ID: AF68753

Date Collected: 07/06/23 13:08 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (IC	P) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	90200		500		ug/L		08/03/23 06:38	08/04/23 17:33	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:33	1
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	20.0	· ·	20.0		ug/L		00/00/20 00:00	00/01/2017:00	
- Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Barium	38.4		5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:42	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:42	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:42	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Iron	3330		100		ug/L		08/03/23 06:38	08/08/23 15:42	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:42	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:42	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:42	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-2

Matrix: Water

Job ID: 680-238535-1

Client Sample ID: AF68759 Date Collected: 07/06/23 13:13

Date Received: 08/02/23 10:45

Method: SW846 60	10D - Metals (ICP) - Total Red	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		500		ug/L		08/03/23 06:38	08/04/23 17:30	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:30	1

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- Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Arsenic	4.53		3.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Barium	41.7		5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:38	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:38	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:38	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Iron	433		100		ug/L		08/03/23 06:38	08/08/23 15:38	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:38	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:38	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:38	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-3

Matrix: Water

Job ID: 680-238535-1

Client Sample ID: AF68752

Date Collected: 07/06/23 14:09 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (IC	P) - Total Rec	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	18700		500		ug/L		08/03/23 06:38	08/04/23 17:38	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Arsenic	10.7		3.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Barium	32.8		5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:50	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:50	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Cobalt	0.810		0.500		ug/L		08/03/23 06:38	08/08/23 15:50	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Iron	608		100		ug/L		08/03/23 06:38	08/08/23 15:50	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:50	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:50	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:50	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-4

Matrix: Water

Job ID: 680-238535-1

Client Sample ID: AF68735 Date Collected: 07/05/23 09:35

Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICF	P) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	92600		500		ug/L		08/07/23 12:18	08/08/23 14:06	1
Selenium	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 14:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Arsenic	216		3.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Barium	139		5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Beryllium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:45	1
Cadmium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:45	1
Chromium	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Cobalt	0.780		0.500		ug/L		08/07/23 12:18	08/08/23 20:45	1
Copper	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Iron	1040		100		ug/L		08/07/23 12:18	08/08/23 20:45	1
Lead	2.50	U	2.50		ug/L		08/07/23 12:18	08/08/23 20:45	1
Nickel	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Thallium	1.00	U	1.00		ug/L		08/07/23 12:18	08/08/23 20:45	1
Zinc	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 20:45	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-5

Matrix: Water

Job ID: 680-238535-1

**Client Sample ID: AF68756** Date Collected: 07/05/23 11:39

Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (I	CP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62200		500		ug/L		08/07/23 12:18	08/08/23 14:04	1
Selenium	20.0	U	20.0		ug/L		08/07/23 12:18	08/08/23 14:04	1
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Arsenic	77.6		3.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Barium	33.3		5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Beryllium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:41	1
Cadmium	0.500	U	0.500		ug/L		08/07/23 12:18	08/08/23 20:41	1
Chromium	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Cobalt	1.09		0.500		ug/L		08/07/23 12:18	08/08/23 20:41	1
Copper	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Iron	1750		100		ug/L		08/07/23 12:18	08/08/23 20:41	1
Lead	2.50	U	2.50		ug/L		08/07/23 12:18	08/08/23 20:41	1
Nickel	5.00	U	5.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Thallium	1.00	U	1.00		ug/L		08/07/23 12:18	08/08/23 20:41	1
Zinc	20.0	U	20.0		ua/L		08/07/23 12:18	08/08/23 20:41	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF68758 Lab Sample ID: 680-238535-6

Date Collected: 07/06/23 09:47 Matrix: Water

Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICF	P) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	193000		500		ug/L		08/03/23 06:38	08/04/23 17:43	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:43	1
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-	20.0	U	20.0		ug/L		00/03/23 00.30	00/04/23 17.43	i
- Method: SW846 6020B -	· Metals (ICP/MS) - Total	Recoverable	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Arsenic	4.57		3.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Barium	41.4		5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:54	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:54	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:54	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Iron	466		100		ug/L		08/03/23 06:38	08/08/23 15:54	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:54	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:54	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:54	1

Job ID: 680-238535-1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Matrix: Water

Job ID: 680-238535-1

Lab Sample ID: 680-238535-8

Date Collected: 07/06/23 11:21 Date Received: 08/02/23 10:45

Client Sample ID: AF68736

Method: SW846 6010D - Metals (ICI	P) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	639000		500		ug/L		08/03/23 06:38	08/04/23 17:55	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:55	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Arsenic	173		3.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Barium	104		5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 16:02	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 16:02	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Cobalt	0.640		0.500		ug/L		08/03/23 06:38	08/08/23 16:02	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Iron	2750		100		ug/L		08/03/23 06:38	08/08/23 16:02	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 16:02	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 16:02	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 16:02	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-9

Matrix: Water

Job ID: 680-238535-1

Client Sample ID: AF68754

Date Collected: 07/06/23 13:13 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICF	) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	88000		500		ug/L		08/03/23 06:38	08/04/23 17:35	1
Selenium 	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Barium	38.4		5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:46	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:46	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:46	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Iron	3320		100		ug/L		08/03/23 06:38	08/08/23 15:46	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:46	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:46	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:46	1

Job ID: 680-238535-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791519/1-A

Matrix: Water

Analysis Batch: 791897

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791519** 

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Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Calcium 500 U 500 ug/L 08/03/23 06:38 08/04/23 16:50 Selenium 20.0 U 20.0 ug/L 08/03/23 06:38 08/04/23 16:50

> Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable**

**Prep Batch: 791519** 

Lab Sample ID: LCS 680-791519/2-A Matrix: Water

Analysis Batch: 791897

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Calcium	5000	4801	ug/L		96	80 - 120	
Selenium	100	99.73	ug/L		100	80 - 120	

Lab Sample ID: MB 680-792124/1-A

Matrix: Water

Analysis Batch: 792466

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 792124

MB MB

Analyte	Result	Qualifier	RL	MDL U	Jnit	C	)	Prepared	Analyzed	Dil Fac
Calcium	500	U	500	u	ıg/L			08/07/23 12:18	08/08/23 13:37	1
Selenium	20.0	U	20.0	u	ıg/L			08/07/23 12:18	08/08/23 13:37	1

Lab Sample ID: LCS 680-792124/2-A

Matrix: Water

Analysis Batch: 792466

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

Prep Batch: 792124

Spike LCS LCS Analyte Added Result Qualifier Limits Unit %Rec Calcium 5000 4954 ug/L 99 80 - 120 Selenium 100 93.06 ug/L 93 80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791518/1-A

Matrix: Water

Analysis Batch: 792490

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

**Prep Batch: 791518** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Nickel	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1

**Eurofins Savannah** 

Job ID: 680-238535-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Zinc

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791518/2-A	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total Recoverable
Analysis Batch: 792490	Prep Batch: 791518

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	50.0	46.52		ug/L		93	80 - 120	
Arsenic	100	97.80		ug/L		98	80 - 120	
Barium	100	95.86		ug/L		96	80 - 120	
Beryllium	50.0	48.56		ug/L		97	80 - 120	
Cadmium	50.0	46.20		ug/L		92	80 - 120	
Chromium	100	100.4		ug/L		100	80 - 120	
Cobalt	50.0	47.54		ug/L		95	80 - 120	
Copper	100	102.8		ug/L		103	80 - 120	
Iron	4990	5052		ug/L		101	80 - 120	
Lead	500	485.1		ug/L		97	80 - 120	
Nickel	100	98.89		ug/L		99	80 - 120	
Thallium	50.0	46.82		ug/L		94	80 - 120	
Zinc	100	101.9		ug/L		102	80 - 120	

Lab Sample ID: MB 680-792127/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total Recoverable Analysis Batch: 792446 Prep Batch: 792127

MB MB Result Qualifier MDL Dil Fac Analyte RL Unit D Prepared Analyzed 5.00 U 5.00 Antimony ug/L 08/07/23 12:18 08/08/23 19:49 Arsenic 3.00 U 3.00 ug/L 08/07/23 12:18 08/08/23 19:49 5.00 ug/L Barium 5.00 U 08/07/23 12:18 08/08/23 19:49 Beryllium 0.500 U 0.500 ug/L 08/07/23 12:18 08/08/23 19:49 Cadmium 0.500 U 0.500 08/08/23 19:49 ug/L 08/07/23 12:18 Chromium 5.00 U 5.00 ug/L 08/07/23 12:18 08/08/23 19:49 Cobalt 0.500 U 0.500 08/07/23 12:18 08/08/23 19:49 ug/L Copper 5.00 U 5.00 ug/L 08/07/23 12:18 08/08/23 19:49 Iron 100 U 100 ug/L 08/07/23 12:18 08/08/23 19:49 Lead 2.50 U 2.50 ug/L 08/07/23 12:18 08/08/23 19:49 5.00 U Nickel 5.00 ug/L 08/07/23 12:18 08/08/23 19:49 Thallium 1.00 U 1.00 ug/L 08/07/23 12:18 08/08/23 19:49

Lab Sample ID: LCS 680-792127/2-A	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total Recoverable
Analysis Batch: 792446	Prep Batch: 792127

20.0

ug/L

08/07/23 12:18

08/08/23 19:49

20.0 U

Analysis Batch: /92446							Prep Bato	cn: /9212/
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	50.0	45.43		ug/L		91	80 - 120	
Arsenic	100	96.81		ug/L		97	80 - 120	
Barium	100	94.51		ug/L		95	80 - 120	
Beryllium	50.0	47.73		ug/L		95	80 - 120	
Cadmium	50.0	45.92		ug/L		92	80 - 120	
Chromium	100	96.26		ug/L		96	80 - 120	
Cobalt	50.0	45.66		ug/L		91	80 - 120	
Copper	100	98.43		ug/L		98	80 - 120	
Iron	4990	4813		ug/L		96	80 - 120	
Lead	500	453.3		ug/L		91	80 - 120	
Nickel	100	96.32		ug/L		96	80 - 120	

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## **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

### Method: 6020B - Metals (ICP/MS) (Continued)

	Lab Sample ID: LCS 680-792127/2-A			Client Sample ID: Lab Control Sample
	Matrix: Water			Prep Type: Total Recoverable
	Analysis Batch: 792446			Prep Batch: 792127
ı		Spike	LCS LCS	%Rec

П	· · · · · · · · · · · · · · · · · · ·								
		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Thallium	50.0	44.90		ug/L		90	80 - 120	
ĺ	Zinc	100	97.52		ua/L		98	80 - 120	

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## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

#### Metals

**Prep Batch: 791518** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	3005A	
680-238535-2	AF68759	Total Recoverable	Water	3005A	
680-238535-3	AF68752	Total Recoverable	Water	3005A	
680-238535-6	AF68758	Total Recoverable	Water	3005A	
680-238535-8	AF68736	Total Recoverable	Water	3005A	
680-238535-9	AF68754	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 791519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	3005A	<u> </u>
680-238535-2	AF68759	Total Recoverable	Water	3005A	
680-238535-3	AF68752	Total Recoverable	Water	3005A	
680-238535-6	AF68758	Total Recoverable	Water	3005A	
680-238535-8	AF68736	Total Recoverable	Water	3005A	
680-238535-9	AF68754	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	6010D	791519
680-238535-2	AF68759	Total Recoverable	Water	6010D	791519
680-238535-3	AF68752	Total Recoverable	Water	6010D	791519
680-238535-6	AF68758	Total Recoverable	Water	6010D	791519
680-238535-8	AF68736	Total Recoverable	Water	6010D	791519
680-238535-9	AF68754	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

**Prep Batch: 792124** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	3005A	
680-238535-5	AF68756	Total Recoverable	Water	3005A	
MB 680-792124/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-792124/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

**Prep Batch: 792127** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	3005A	
680-238535-5	AF68756	Total Recoverable	Water	3005A	
MB 680-792127/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-792127/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 792446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	6020B	792127
680-238535-5	AF68756	Total Recoverable	Water	6020B	792127
MB 680-792127/1-A	Method Blank	Total Recoverable	Water	6020B	792127
LCS 680-792127/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792127

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8/9/2023

## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

#### Metals

Analysis Batch: 792466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-4	AF68735	Total Recoverable	Water	6010D	792124
680-238535-5	AF68756	Total Recoverable	Water	6010D	792124
MB 680-792124/1-A	Method Blank	Total Recoverable	Water	6010D	792124
LCS 680-792124/2-A	Lab Control Sample	Total Recoverable	Water	6010D	792124

#### Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238535-1	AF68753	Total Recoverable	Water	6020B	791518
680-238535-2	AF68759	Total Recoverable	Water	6020B	791518
680-238535-3	AF68752	Total Recoverable	Water	6020B	791518
680-238535-6	AF68758	Total Recoverable	Water	6020B	791518
680-238535-8	AF68736	Total Recoverable	Water	6020B	791518
680-238535-9	AF68754	Total Recoverable	Water	6020B	791518
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

Job ID: 680-238535-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF68753

Lab Sample ID: 680-238535-1 Date Collected: 07/06/23 13:08

Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:33
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:42

Client Sample ID: AF68759

Lab Sample ID: 680-238535-2 Date Collected: 07/06/23 13:13

Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:30
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:38

Client Sample ID: AF68752

Lab Sample ID: 680-238535-3 Date Collected: 07/06/23 14:09

Matrix: Water

Date Received: 08/02/23 10:45

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Туре Run Factor **Number Analyst** Lab Total Recoverable Prep 3005A 791519 RR EET SAV 08/03/23 06:38 6010D 08/04/23 17:38 Total Recoverable Analysis 791897 BJB **EET SAV** Total Recoverable Prep 3005A 791518 RR EET SAV 08/03/23 06:38 792490 BWR 08/08/23 15:50 Total Recoverable Analysis 6020B **EET SAV** 1

Client Sample ID: AF68735

Lab Sample ID: 680-238535-4 Date Collected: 07/05/23 09:35 Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			792124	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6010D		1	792466	BJB	EET SAV	08/08/23 14:06
Total Recoverable	Prep	3005A			792127	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6020B		1	792446	BWR	EET SAV	08/08/23 20:45

Lab Sample ID: 680-238535-5 Client Sample ID: AF68756

Date Collected: 07/05/23 11:39 Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	<del></del>		792124	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6010D		1	792466	BJB	EET SAV	08/08/23 14:04
Total Recoverable	Prep	3005A			792127	RR	EET SAV	08/07/23 12:18
Total Recoverable	Analysis	6020B		1	792446	BWR	EET SAV	08/08/23 20:41

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#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-238535-6

ipic ib: 000 200000 0

Job ID: 680-238535-1

Matrix: Water

Client Sample ID: AF68758 Date Collected: 07/06/23 09:47

Date Received: 08/02/23 10:45

Client Sample ID: AF68736

Date Collected: 07/06/23 11:21

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:43
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:54

Lab Sample ID: 680-238535-8

ab Sample ID. 000-230333-0

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run Factor **Number Analyst** Lab or Analyzed Total Recoverable 3005A 791519 RR EET SAV 08/03/23 06:38 Prep 6010D Total Recoverable Analysis 791897 BJB 08/04/23 17:55 **EET SAV** Total Recoverable Prep 3005A 791518 RR **EET SAV** 08/03/23 06:38 08/08/23 16:02 Total Recoverable Analysis 6020B 792490 BWR **EET SAV** 1

Client Sample ID: AF68754 Lab Sample ID: 680-238535-9

Date Collected: 07/06/23 13:13 Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:35
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:46

Laboratory References:

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

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## Chain of Custody

Santee Cooper One Riverwood Drive Moneks 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 125915 / JM02.08. G-Ø1.1/ 36500 @santeecooper.com (Yes No **Analysis Group** Labworks ID# Sample Location/ Comments SAU METALS BELOW Collection Time Matrix(see below) Collection Date Preservative (see below) (Internal use Description Total # of containers (Glass Collecto Method # only) Reporting limit Bottle type: (( G/Plastic-P) Grab (G) or Composite ( Misc sample info Sample ( TOTAL SEE Any other notes WJK 7/6/23 2 P G GW AF68753 WLF-A1-4 1308 6020 X - SEE SHEET FOR RLS WLF-AI-4 DUP 1313 AF68759 A+68752 WLF-A1-3 1409 7/5/23 AF 68735 0935 WAP-18 PLEASE RETURN UPON COMPLETION. AF-68756 WLF-A2-1 1139 WLF - AZ-6 7/6/23 AF68758 1490 AF68759 WLF-A2-6 DUP 0952 AF68736 WAP-19 1121 680-238535 Chain of Custody Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C):4 2/4 | Initial: HODEL 35594 8/2/23 0756 6756 Maroun COURIER 8/2/23 Correct pH: Yes Relinquished by: Employee# Time Received by: Employee # Date Time Preservative Lot#: M EHOGGE Relinquished by: Councr 812123 (644 8.2-23 1045 Employee# Time Received by: Date Employee # Date Time Date/Time/init for preservative: ☐ METALS (all ) **Nutrients** MISC. Gypsum Coal Oil Flyash □ Ag Z Cu □ TOC □ BTEX □ Wallboard ☐ Ultimate ☐ Ammonia Trans. Oll Qual. ℤ Se √ Fe □ DOC ☐ Naphthalene 3 %Moisture Gypsum(all □ % Moisture □ LOI Ø As  $\square K$ □ Sn ☐ THM/HAA Color ☐ TP/TPO4 below) □ Ash ☐ % Carbon □ VOC Acidity □ AIM □ NH3-N □В ☐ Sulfur □ Li □ Sr ☐ Mineral Dielectric Strength ☐ Oil & Grease O TOC OF □ BTUs Analysis ☑ Ba 🛮 Ti □ E. Coli ☐ Total metals O CI ☐ Volatile Matter Dissolved Gases ☐ Total Coliform □ Sieve ☐ Soluble Metals ☑ Be □ Mn Z TI FI NO2 □рН □ CHN ☐ % Moisture Used Oil ☐ Purity (CaSO4) Flashpoint Metals in oil (As.Cd.Cr.Ni.Pb O Br ☐ Dissolved As Other Tests: √Ca □ Mo  $\Box V$ ☐ % Moisture ☐ Dissolved Fe □ NO3 ☐ Sulfites □ XRF Scan **NPDES** A Cd □ Na ℤ Zn □ Rad 226 □pH □ HGI □ SO4 Oil & Grease Hg) ☐ Rad 228 ☐ Chlorides ☐ Fineness Ø Ni Z Co □Hg □ As □ РСВ · TX ☐ Particulate Matter ☐ Particle Size □ TSS Ø Cr Ø Pb □ CrVI GOFER ☐ Suffer

## **Chain of Custody**

santee cooper\*

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA 125915 / JM02.08. G-81.1/ 36500 @santeecooper.com (Yes No **Analysis Group** Labworks ID# Sample Location/ Comments BELOW Matrix(see below) Preservative (see below) (internal use Description **Collection Date** Collection Time Collector Method # only) Total # of contail Grab (G) or Composite (C) Reporting limit Misc sample info JEE I Any other notes WLF-AI-4 7/6/23 P 2 AF68753 GW 1308 G 6020 X AF68754 9 - SEE SHEET FOR RLS AF68759 WLF-A-1-4 DUP 1313 A+68752 Mrt-41-3 1409 7/5/23 AF 68735 0935 WAP-18 PLEASE RETURN UPON COMPLETION. WLF-42-1 AF-68756 1139 WLF - A2-6 AF68758 7/6/23 1490 AF68759 WLF-A2-6 DUP 0952 AF68736 WAP-19 1121 680-238535 Chain of Custody Relinguished by: Sample Receiving (Internal Use Only) Received by: Employee# Date Time Employee # Date Time TEMP (°C):42 Hodge Initial: Sylproun 35594 8/2/23 0756 COURIER 8/2/23 0756 Correct pH: Yes Relinquished by: **Employee#** Date Received by: Employee# Date Time EHOOGE Preservative Lot#: Councr 8/2/23 8.2-23 (644 M 1045 Relinquished by: **Employee#** Time Date Received by: Employee # Date Time Date/Time/init for preservative: ☐ METALS (all ) Nutrients MISC. DAg Z Sb A Cu DITOC LI BTEX O Olderife DAL Z Fe n doc ⊇ tp/tp04 U Naphthalene G & Meisture LICI Z As DK □ Sp O THM/HAA DAN O'% Calbo □ VOC UB O NH3-N ūLi D Sr D Sulfur □ Oil & Grease Z Ba BTUS D Mg DTi DE Coli 位的 (1) Total Coliform D Volatile Matter ØBe Z TI D Mn UpH O CHN Dissolved As D'Ca □ Mo DV Other Tests: EI NOS ☐ Dissolved Fe DXRF Scan ZÍ Cđ Zn O Na D Rad 226 UHG 1304 17.00 de Obeau D Rad 228 O Fineness d Co ØNi □Hg O PCB D'Particulate Matter Z Cr **☑**Pb □ CrVI

## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-238535-1

Login Number: 238535 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.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	False	Refer to Job Narrative for details.
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	

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-238535-1

#### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

 $^{\star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

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# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 8/9/2023 8:32:53 AM

## **JOB DESCRIPTION**

125915/JM02.08.G01.3/36500

## **JOB NUMBER**

680-238533-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



## **Eurofins Savannah**

#### **Job Notes**

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

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

### **Authorization**

Generated 8/9/2023 8:32:53 AM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Job ID: 680-238533-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-238533-1

#### Receipt

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

#### Metals

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

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## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238533-1	AF68718	Water	06/27/23 13:07	08/02/23 10:45
680-238533-2	AF68716	Water	06/28/23 10:32	08/02/23 10:45
680-238533-3	AF69285	Water	06/28/23 12:36	08/02/23 10:45
680-238533-4	AF68715	Water	06/29/23 09:47	08/02/23 10:45
680-238533-5	AF68722	Water	06/29/23 14:53	08/02/23 10:45

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## **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
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

**Eurofins Savannah** 

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### **Definitions/Glossary**

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Qualifiers

Metals

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

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**Eurofins Savannah** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Barium

Magnesium

Iron

Job ID: 680-238533-1

Total Recoverable

Total Recoverable

Total Recoverable

Client Sample ID: AF68718						Lal	o S	Sample ID:	680-238533-1
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	487000		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	253		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	214		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	6310		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	93200		250		ug/L	1		6020B	Total
-									Recoverable
Client Sample ID: AF68716						Lal	o S	Sample ID:	680-238533-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	100000		500		ug/L	1	_	6010D	Total
									Recoverable
Aluminum	1580		100		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF69285 Lab Sample
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5.00

100

250

ug/L

ug/L

ug/L

6020B

6020B

6020B

60.1

4140

2340

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	49000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	130		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	3000		250		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF68715 Lab Sample ID: 680-238533-4

Analyte	Result Qu	ualifier RL	MDL	Unit	Dil Fac	D Meth	od	Prep Type
Calcium	63600	500		ug/L	1	6010	D D	Total
								Recoverable
Barium	9.33	5.00		ug/L	1	6020	В	Total
								Recoverable
Magnesium	5390	250		ug/L	1	6020	В	Total
								Recoverable

#### Client Sample ID: AF68722 Lab Sample ID: 680-238533-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	235000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	77.3		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	8390		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	9610		250		ug/L	1		6020B	Total
_									Recoverable

This Detection Summary does not include radiochemical test results.

**Eurofins Savannah** 

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8/9/2023

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238533-1

Matrix: Water

Job ID: 680-238533-1

Client Sample ID: AF68718

Date Collected: 06/27/23 13:07 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	487000		500		ug/L		08/03/23 05:51	08/03/23 15:22	1
	Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:22	1
	_									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:55	1
Arsenic	253		3.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Barium	214		5.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:55	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:55	1
Iron	6310		100		ug/L		08/03/23 05:51	08/07/23 16:55	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:55	1
Magnesium	93200		250		ug/L		08/03/23 05:51	08/07/23 16:55	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:55	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238533-2

Matrix: Water

Job ID: 680-238533-1

**Client Sample ID: AF68716** 

Date Collected: 06/28/23 10:32 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	100000		500		ug/L		08/03/23 05:51	08/03/23 15:08	1
	Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:08	1
	_									

Method: SW846 6020B - Met	als (ICP/MS) - Total	Recoverable	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1580		100		ug/L		08/03/23 05:51	08/07/23 16:18	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Barium	60.1		5.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:18	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:18	1
Iron	4140		100		ug/L		08/03/23 05:51	08/07/23 16:18	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:18	1
Magnesium	2340		250		ug/L		08/03/23 05:51	08/07/23 16:18	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:18	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238533-3

Matrix: Water

Job ID: 680-238533-1

**Client Sample ID: AF69285** 

Date Collected: 06/28/23 12:36 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49000		500		ug/L		08/03/23 06:38	08/04/23 17:25	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:30	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:30	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:30	1
Iron	130		100		ug/L		08/03/23 06:38	08/08/23 15:30	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:30	1
Magnesium	3000		250		ug/L		08/03/23 06:38	08/08/23 15:30	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:30	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238533-4

Matrix: Water

Job ID: 680-238533-1

**Client Sample ID: AF68715** 

Date Collected: 06/29/23 09:47 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	63600		500		ug/L		08/03/23 05:51	08/03/23 15:20	1
Selenium 	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:46	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Barium	9.33		5.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:46	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:46	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:46	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:46	1
Magnesium	5390		250		ug/L		08/03/23 05:51	08/07/23 16:46	1
Zinc	20.0	U	20.0		ua/L		08/03/23 05:51	08/07/23 16:46	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238533-5

Matrix: Water

Job ID: 680-238533-1

Client Sample ID: AF68722 Date Collected: 06/29/23 14:53

Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	235000		500		ug/L		08/03/23 06:38	08/04/23 17:28	1
	Selenium 	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:34	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
Barium	77.3		5.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:34	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:34	1
Iron	8390		100		ug/L		08/03/23 06:38	08/08/23 15:34	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:34	1
Magnesium	9610		250		ug/L		08/03/23 06:38	08/08/23 15:34	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:34	1

### Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791516/1-A

Matrix: Water

Analysis Batch: 791719

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791516** 

	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	500	U	500	ug/L		08/03/23 05:51	08/03/23 14:52	1
	Selenium	20.0	U	20.0	ua/L		08/03/23 05:51	08/03/23 14:52	1

Lab Sample ID: LCS 680-791516/2-A

Matrix: Water

Analysis Batch: 791719

MR MR

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** Prep Batch: 791516

%Rec

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Calcium 5000 4950 99 80 - 120 ug/L Selenium 100 94.39 ug/L 94 80 - 120

Lab Sample ID: MB 680-791519/1-A

Matrix: Water

Analysis Batch: 791897

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791519** 

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

Lab Sample ID: LCS 680-791519/2-A

Matrix: Water

Analysis Batch: 791897

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

**Prep Batch: 791519** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4801		ug/L		96	80 - 120	
Selenium	100	99.73		ug/L		100	80 - 120	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791513/1-A

Matrix: Water

Analysis Batch, 702220

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

Pren Batch: 791513

Analysis Batch: 792230								Prep Batch:	791513
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Barium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 15:57	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 15:57	1
Iron	100	U	100		ug/L		08/03/23 05:51	08/07/23 15:57	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 15:57	1
Magnesium	250	U	250		ug/L		08/03/23 05:51	08/07/23 15:57	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 15:57	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791513/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Analysis Batch: 792230 Prep Batch: 791513

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5050	5120		ug/L		101	80 - 120	
Arsenic	100	106.4		ug/L		106	80 - 120	
Barium	100	102.9		ug/L		103	80 - 120	
Cadmium	50.0	50.92		ug/L		102	80 - 120	
Chromium	100	109.3		ug/L		109	80 - 120	
Copper	100	113.2		ug/L		113	80 - 120	
Iron	4990	5167		ug/L		104	80 - 120	
Lead	500	530.5		ug/L		106	80 - 120	
Magnesium	5000	4977		ug/L		100	80 - 120	
Zinc	100	110.4		ug/L		110	80 - 120	

Lab Sample ID: MB 680-791518/1-A Client Sample ID: Method Blank Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 792490 **Prep Batch: 791518** 

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1
Magnesium	250	U	250		ug/L		08/03/23 06:38	08/08/23 14:41	1
Zinc	20.0	U	20.0		ua/L		08/03/23 06:38	08/08/23 14:41	1

Lab Sample ID: LCS 680-791518/2-A Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** 

Analysis Batch: 792490							Prep Batc	h: 791518
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5050	4652		ug/L		92	80 - 120	
Arsenic	100	97.80		ug/L		98	80 - 120	
Barium	100	95.86		ug/L		96	80 - 120	
Cadmium	50.0	46.20		ug/L		92	80 - 120	
Chromium	100	100.4		ug/L		100	80 - 120	
Copper	100	102.8		ug/L		103	80 - 120	
Iron	4990	5052		ug/L		101	80 - 120	
Lead	500	485.1		ug/L		97	80 - 120	
Magnesium	5000	4591		ug/L		92	80 - 120	
Zinc	100	101.9		ua/l		102	80 120	

## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

#### Metals

Prep	Batch:	791513
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	3005A	
680-238533-2	AF68716	Total Recoverable	Water	3005A	
680-238533-4	AF68715	Total Recoverable	Water	3005A	
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Prep Batch: 791516

[	Olivert Overville ID	D T		M. d	D D. (.)
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	3005A	
680-238533-2	AF68716	Total Recoverable	Water	3005A	
680-238533-4	AF68715	Total Recoverable	Water	3005A	
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 791518**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	3005A	
680-238533-5	AF68722	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 791519**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	3005A	
680-238533-5	AF68722	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Analysis Batch: 791719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	6010D	791516
680-238533-2	AF68716	Total Recoverable	Water	6010D	791516
680-238533-4	AF68715	Total Recoverable	Water	6010D	791516
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	6010D	791516
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791516

#### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
680-238533-3	AF69285	Total Recoverable	Water	6010D	791519	
680-238533-5	AF68722	Total Recoverable	Water	6010D	791519	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519	

#### Analysis Batch: 792230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-1	AF68718	Total Recoverable	Water	6020B	791513
680-238533-2	AF68716	Total Recoverable	Water	6020B	791513
680-238533-4	AF68715	Total Recoverable	Water	6020B	791513
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	6020B	791513
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791513

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Page 16 of 22

## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

#### Metals

Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238533-3	AF69285	Total Recoverable	Water	6020B	791518
680-238533-5	AF68722	Total Recoverable	Water	6020B	791518
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791518

Job ID: 680-238533-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

**Client Sample ID: AF68718** 

Date Collected: 06/27/23 13:07 Date Received: 08/02/23 10:45 Lab Sample ID: 680-238533-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:22
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:55

Client Sample ID: AF68716

Date Collected: 06/28/23 10:32

Date Received: 08/02/23 10:45

Lab Sample ID: 680-238533-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:08
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:18

Client Sample ID: AF69285

Date Collected: 06/28/23 12:36

Date Received: 08/02/23 10:45

Lab Sample ID: 680-238533-3

Matrix: Water

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	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:25
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:30

**Client Sample ID: AF68715** 

Date Collected: 06/29/23 09:47

Date Received: 08/02/23 10:45

Lab Sample ID: 680-238533-4

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:20
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:46

Client Sample ID: AF68722

Date Collected: 06/29/23 14:53

Date Received: 08/02/23 10:45

Lab Sample ID: 680-238533-5

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:28
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:34

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#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

#### Laboratory References:

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

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## **Chain of Custody**



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

**Customer Email/Report Recipient:** Project/Task/Unit #: Date Results Needed by: Rerun request for any flagged QC LCWILLIA 125915 / JM02.08.601.3/ 36500 @santeecooper.com (Yes) No **Analysis Group** Labworks ID# Sample Location/ Comments METALS BELOW Preservative (see below) (Glass-Matrix(see below) Collection Time **Collection Date** Total # of containers (Internal use Description Method # Sample Collector only) Reporting limit Grab (G) or Composite (C) Bottle type: (G/Plastic-P) Misc. sample info TOTAL -Any other notes WJK P 2 X 6 €W AF-68718 WAP-8 6/27/<u>2</u>3 1307 METHOD 6020 ML -SEE SHEET FOR RLS. WAP-6 6/28/23 1032 AF68716 1236 \*PLEASE RETURN SAMPLES PPZW-6D A-F69285 UPON COMPLETION. 6/29/23 WAP-5 0947 AF68715 1453 WAP-11 AF68722 680-238533 Chain of Custody Sample Receiving (Internal Use Only) Received by: Time Relinquished by: Employee# Date Time Employee# Date TEMP (°C): 42/43 Initial: XOD CO 35594 Albroan 8/2/23 COURIER 8/2/23 0756 0756 Correct pH: Yes Relinquished by: Received by: Employee# Date Time Employee# Date Time Preservative Lot#: 1044 8-2-23 1045 812123 EHODGE *courier* Relinquished by: Employee# Date Time Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. **Gypsum** Coal Oil Flyash Z Cu □ Ag □ Sb □ TOC □ Wallboard □ BTEX ☐ Ultimate ☐ Ammonia Trans. Oil Qual. Z AI ☑ Fe Ø Se □ Naphthalene Gypsum(all ☐ % Moisture 2 %Moisture D DOC ☑ As  $\Box K$ □ Sn ☐ THM/HAA Color ☐ TP/TPO4 below) □ Ash □ % Carbon Acidity
Dielectric Strength
IFT □ VOC O AIM □ NH3-N ☐ Sulfur □ Mineral  $\Box B$ □Li □ Sr ☐ Oil & Grease o toc ΠF ☐ BTUs Analysis D∕Ba □ E. Coli Ø Mg □ Ti ☼ Total metals ☐ Volatile Matter □ Sieve ☐ Total Coliform Dissolved Gases ☐ Soluble Metals □Ве □ Mn □ NO2 □ CHN ☐ % Moisture Used Oil □pH ☐ Purity (CaSO4) Flashpoint Metals in oil (As,Cd,Cr,Ni;Pb ☐ Dissolved As Other Tests: () Br ☐% Moisture Z Ca  $\square V$ □ Mo □ NO3 ☐ Dissolved Fe ☐ Sulfites ☐ XRF Scan **NPDES** Z Cd Z Zn □ Na □ Rad 226 □ HGI □pH □ SO4 Hg) Oil & Grease ☐ Rad 228 11 Chlorides ☐ Fineness □Со □ Ni □ Hg O As □ PCB ☐ Particulate Matter ☐ Particle Size □ TSS GOFER Cr Cr Z Pb □ CrVI

## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-238533-1

Login Number: 238533 List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

0 1	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td>	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

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238533-1

#### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

 $^{\star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

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## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 1/9/2024 10:02:26 AM Revision 1

## **JOB DESCRIPTION**

125915/JM02 09 G011/36500

## **JOB NUMBER**

680-244376-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



## **Eurofins Savannah**

### **Job Notes**

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

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

### **Authorization**

Generated 1/9/2024 10:02:26 AM Revision 1

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority

Project: 125915/JM02 09 G011/36500

Job ID: 680-244376-1 Eurofins Savannah

Job Narrative 680-244376-1

#### **REVISION**

The report being provided is a revision of the original report sent on 12/15/2023. The report (revision 1) is being revised due to Client is requesting batch QC to be reported..

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

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

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

#### Receipt

The samples were received on 12/14/2023 10:32 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 13.6°C

#### **Metals**

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

**Eurofins Savannah** 

Job ID: 680-244376-1

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## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-244376-1	AF85222	Water	12/11/23 13:19	12/14/23 10:32
680-244376-2	AF85223	Water	12/11/23 10:24	12/14/23 10:32
680-244376-3	AF85224	Water	12/11/23 10:29	12/14/23 10:32
680-244376-4	AF85225	Water	12/11/23 11:50	12/14/23 10:32

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## **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	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

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## **Definitions/Glossary**

Client: South Carolina Public Service Authority

Job ID: 680-244376-1

Project/Site: 125915/JM02 09 G011/36500

Qualifiers

Metals

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.
U Indicates the analyte was analyzed for but not detected.

**Glossary** 

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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## **Detection Summary**

Project/Site: 125915/JM02 09 G011/36500	
Client Sample ID: AF85222	Lab Sample ID: 680-244376-1
No Detections.	
Client Sample ID: AF85223	Lab Sample ID: 680-244376-2
No Detections.	
Client Sample ID: AF85224	Lab Sample ID: 680-244376-3
No Detections.	
Client Sample ID: AF85225	Lab Sample ID: 680-244376-4

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Job ID: 680-244376-1

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Client: South Carolina Public Service Authority

No Detections.

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Client Sample ID: AF85222 Lab Sample ID: 680-244376-1

Date Collected: 12/11/23 13:19

Matrix: Water

Date Received: 12/14/23 10:32

Method: SW846 7470A - Mercury (CVAA)
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed

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Client: South Carolina Public Service Authority
Project/Site: 125915/JM02 09 G011/36500

Client Sample ID: AF85223 Lab Sample ID: 680-244376-2

Matrix: Water

Job ID: 680-244376-1

Date Collected: 12/11/23 10:24 Date Received: 12/14/23 10:32

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 12/15/23 09:10 12/15/23 16:04 1

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Client: South Carolina Public Service Authority

Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Client Sample ID: AF85224 Lab Sample ID: 680-244376-3

Matrix: Water

Date Collected: 12/11/23 10:29 Date Received: 12/14/23 10:32

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 12/15/23 09:10 12/15/23 16:06

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1/9/2024 (Rev. 1)

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Client: South Carolina Public Service Authority
Project/Site: 125915/ IM02 09 G011/36500

Job ID: 680-244376-1

Project/Site: 125915/JM02 09 G011/36500

Client Sample ID: AF85225 Lab Sample ID: 680-244376-4

Matrix: Water

Date Collected: 12/11/23 11:50 Date Received: 12/14/23 10:32

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 12/15/23 09:10 12/15/23 16:08

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-813640/1-A Client Sample ID: Method Blank

**Matrix: Water** 

Analysis Batch: 813777

Prep Type: Total/NA

**Prep Batch: 813640** 

MB MB

0.200 UF1

Dil Fac Result Qualifier RL **MDL** Unit Analyzed Analyte **Prepared** 0.200 <u>12/15/23 09:10</u> <u>12/15/23 12:50</u> Mercury 0.200 U ug/L

Lab Sample ID: LCS 680-813640/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 813777

Prep Type: Total/NA **Prep Batch: 813640** 

ug/L

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

2.50 80 - 120 Mercury 2.453 ug/L 98

Lab Sample ID: 680-244329-G-1-D MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 813777

Prep Type: Total/NA **Prep Batch: 813640** 

0.8064

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec

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Lab Sample ID: 680-244329-G-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Mercury

Prep Type: Total/NA **Analysis Batch: 813777 Prep Batch: 813640** 

%Rec

80 - 120

MSD MSD **RPD** Spike Sample Sample **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 0.200 U F1 0.7930 F1 Mercury 1.00 ug/L 79 80 - 120 2

## **QC Association Summary**

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

#### Metals

**Prep Batch: 813640** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-244376-1	AF85222	Total/NA	Water	7470A	
680-244376-2	AF85223	Total/NA	Water	7470A	
680-244376-3	AF85224	Total/NA	Water	7470A	
680-244376-4	AF85225	Total/NA	Water	7470A	
MB 680-813640/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-813640/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-244329-G-1-D MS	Matrix Spike	Total/NA	Water	7470A	
680-244329-G-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

#### Analysis Batch: 813777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-244376-1	AF85222	Total/NA	Water	7470A	813640
680-244376-2	AF85223	Total/NA	Water	7470A	813640
680-244376-3	AF85224	Total/NA	Water	7470A	813640
680-244376-4	AF85225	Total/NA	Water	7470A	813640
MB 680-813640/1-A	Method Blank	Total/NA	Water	7470A	813640
LCS 680-813640/2-A	Lab Control Sample	Total/NA	Water	7470A	813640
680-244329-G-1-D MS	Matrix Spike	Total/NA	Water	7470A	813640
680-244329-G-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	813640

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#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

Lab Sample ID: 680-244376-1

Matrix: Water

**Client Sample ID: AF85222** 

Date Collected: 12/11/23 13:19 Date Received: 12/14/23 10:32

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:02

Lab Sample ID: 680-244376-2 **Client Sample ID: AF85223** 

Date Collected: 12/11/23 10:24 Matrix: Water

Date Received: 12/14/23 10:32

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:04

Client Sample ID: AF85224 Lab Sample ID: 680-244376-3

Date Collected: 12/11/23 10:29 Matrix: Water

Date Received: 12/14/23 10:32

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:06

Lab Sample ID: 680-244376-4 Client Sample ID: AF85225

Date Collected: 12/11/23 11:50 Matrix: Water

Date Received: 12/14/23 10:32

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			813640	DW	EET SAV	12/15/23 09:10
Total/NA	Analysis	7470A		1	813777	DW	EET SAV	12/15/23 16:08

#### **Laboratory References:**

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

**Eurofins Savannah** 

# santee cooper.

Smites Cooper One Riverwood Drive Monoks Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

## Chain of Custody

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## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-244376-1

Login Number: 244376 List Source: Eurofins Savannah

List Number: 1

Creator: Stewart, Rendaisha

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

Eurofins Savannah

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02 09 G011/36500

Job ID: 680-244376-1

## **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
South Carolina	State	98001	06-30-24



## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 8/25/2023 9:18:19 AM

## **JOB DESCRIPTION**

125915/JM02-08-G01.1/36500

## **JOB NUMBER**

680-237959-2

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



## **Eurofins Savannah**

### **Job Notes**

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

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

### **Authorization**

Generated 8/25/2023 9:18:19 AM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281 Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Laboratory Job ID: 680-237959-2

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

Job ID: 680-237959-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-237959-2

#### Receipt

The samples were received on 7/20/2023 9:45 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 21.7°C

#### Metals

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

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## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237959-1	AF68738	Water	07/12/23 12:28	07/20/23 09:45
680-237959-2	AF68732	Water	07/12/23 14:32	07/20/23 09:45
680-237959-3	AF68740	Water	07/12/23 11:01	07/20/23 09:45
680-237959-4	AF68743	Water	07/12/23 13:23	07/20/23 09:45
680-237959-5	AF68744	Water	07/12/23 13:28	07/20/23 09:45
680-237959-8	AF68725	Water	07/18/23 11:49	07/20/23 09:45
680-237959-9	AF68742	Water	07/18/23 14:53	07/20/23 09:45
680-237959-10	AF68747	Water	07/17/23 10:08	07/20/23 09:45
680-237959-11	AF68731	Water	07/17/23 11:15	07/20/23 09:45
680-237959-12	AF68723	Water	07/17/23 13:00	07/20/23 09:45
680-237959-13	AF68724	Water	07/17/23 13:05	07/20/23 09:45
680-237959-14	AF68746	Water	07/17/23 14:24	07/20/23 09:45
680-237959-15	AF68726	Water	07/13/23 14:16	07/20/23 09:45
680-237959-16	AF68727	Water	07/13/23 14:21	07/20/23 09:45
680-237959-17	AF68730	Water	07/13/23 10:01	07/20/23 09:45
680-237959-18	AF68729	Water	07/13/23 11:24	07/20/23 09:45
680-237959-19	AF68728	Water	07/13/23 13:32	07/20/23 09:45

## **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
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-G01.1/36500

Job ID: 680-237959-2

#### **Qualifiers**

PQL

QC RER

RL RPD

TEF TEQ

TNTC

**PRES** 

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Presumptive Quality Control

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

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

**Client Sample ID: AF68738** 

Job ID: 680-237959-2

Lab Sample ID: 680-237959-1

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97000		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	5.72		3.00		ug/L	1		6020B	Total
Destina	70.0		5.00			4		COOOD	Recoverable
Barium	79.2		5.00		ug/L	1		6020B	Total Recoverable
Chromium	29.6		5.00		ug/L			6020B	Total
			5.55		g, <u> </u>	•			Recoverable
Cobalt	2.31		0.500		ug/L	1		6020B	Total
									Recoverable
Lead	11.0		2.50		ug/L	1		6020B	Total
									Recoverable
Client Sample ID: AF68732						Lal	b S	Sample ID	: 680-237959-2
Analida	Danulé	Ovelifien	D.	MDI	I I mid	D:: F	_	Madhad	Duan Tuna
Analyte		Qualifier	RL	MDL	Unit		<u>D</u>	Method	Prep Type
Calcium	220000		500		ug/L	1		6010D	Total Recoverable
Barium	94.3		5.00		ug/L	1		6020B	Total
Banam	01.0		0.00		agri			00208	Recoverable
Client Sample ID: AF68740						l al	h S	Sample ID	: 680-237959-3
						Lai		Jampie ID	. 000-201 333-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	348000		500		ug/L	1	_	6010D	Total
									Recoverable
Arsenic	443		3.00		ug/L	1		6020B	Total
Basilian	100		5.00					C000D	Recoverable
Barium	186		5.00		ug/L	1		6020B	Total Recoverable
Client Sample ID: AF68743						Lal	b S	Sample ID	: 680-237959-4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19200		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	35.1		5.00		ug/L	1		6020B	Total
									Recoverable
Client Sample ID: AF68744						Lal	b S	Sample ID	: 680-237959-5
Anglyto	Pocult	Qualifier	RL	MDI	Unit	Dil Fac	_	Method	Prep Type
Analyte Calcium	20300	Quannet	500	MIDL	ug/L	<u></u>	_	6010D	Total
Calcium	20300		300		ug/L	'		0010D	Recoverable
Barium	36.9		5.00		ug/L	1		6020B	Total
					· ·				Recoverable
Client Sample ID: AF68725						l al	h S	Sample ID	: 680-237959-8
Chefit Sample ID. At 00723						Lai	0 0	Dample ID	. 000-237 333-0
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	400000		500		ug/L	1		6010D	Total
									Recoverable
Barium	270		5.00		ug/L	1		6020B	Total
Cohalt	0.500		0.500		ua/l	4		6020B	Recoverable
Cobalt	0.500		0.500		ug/L	1		UUZUD	Total Recoverable
									Noovelable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Barium

Job ID: 680-237959-2

Client Sample ID: AF68742						Lak	s S	ample ID:	680-237959-9
– Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	61400		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	8.14		5.00		ug/L	1		6020B	Total
_									Recoverable
Client Sample ID: AF68747						Lab	Sa	mple ID: (	680-237959-10
	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	519000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	36.3		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	4.31		0.500		ug/L	1		6020B	Total
_									Recoverable
Client Sample ID: AF68731						Lab	Sa	mple ID:	680-237959-1
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	176000		500		ug/L	1	_	6010D	Total

Client Sample ID: AF68723	Lab Sample ID: 680-237959-12

5.00

ug/L

153

Analyte	Result	Qualifier	RL MI	L Unit	Dil Fac	D	Method	Prep Type
Calcium	139000		000	ug/L	1	_	6010D	Total
								Recoverable
Barium	21.6	5	.00	ug/L	1		6020B	Total
								Recoverable
Cobalt	0.925	0.5	600	ug/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF68724 Lab Sample ID: 680-237959-13

Analyte	Result Qu	ualifier RL	MDL (	Unit	Dil Fac	D	Method	Prep Type
Calcium	139000	500		ug/L	1	_	6010D	Total
								Recoverable
Barium	22.9	5.00	ι	ug/L	1		6020B	Total
								Recoverable
Cobalt	0.975	0.500	ι	ug/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF68746 Lab Sample ID: 680-237959-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97500		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	191		5.00		ug/L	1		6020B	Total
									Recoverable
Beryllium	0.695		0.500		ug/L	1		6020B	Total
									Recoverable
Cobalt	18.8		0.500		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Recoverable

Total Recoverable

6020B

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68726

Job ID: 680-237959-2

Lab Sample ID: 680-237959-15

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1160000		5000		ug/L	10	_	6010D	Total
									Recoverable
Arsenic	22.3		3.00		ug/L	1		6020B	Total
Barium	49.8		5.00		ua/l	1		6020B	Recoverable
Barium	49.8		5.00		ug/L	1		0020B	Total Recoverable
									Necoverable
Client Sample ID: AF68727						Lab	Sa	mple ID:	680-237959-16
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1230000		5000		ug/L		_	6010D	Total
									Recoverable
Arsenic	18.2		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	46.7		5.00		ug/L	1		6020B	Total
									Recoverable
Client Sample ID: AF68730						Lab	Sa	mple ID:	680-237959-17
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	165000		500		ug/L		_	6010D	Total
					· ·				Recoverable
Barium	85.4		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.735		0.500		ug/L	1		6020B	Total
									Recoverable
Client Sample ID: AF68729						Lab	Sa	mple ID:	680-237959-18
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	688000		500		ug/L		_	6010D	Total
					J				Recoverable
Arsenic	7.80		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	133		5.00		ug/L	1		6020B	Total
									Recoverable
Client Sample ID: AF68728						Lab	Sa	mple ID:	680-237959-19
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	832000		5000		ug/L		_	6010D	Total
					J. –				Recoverable
Arsenic	6.75		3.00		ug/L	1		6020B	Total
					-				Recoverable
Barium	82.3		5.00		ug/L	1		6020B	Total
									Recoverable
									Total Recove Total

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68738 Lab Sample ID: 680-237959-1

Matrix: Water

Job ID: 680-237959-2

Date Collected: 07/12/23 12:28 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICF	P) - Total Reco	verable							
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97000		500		ug/L		08/24/23 05:25	08/24/23 10:28	1
Selenium	20.0 U		20.0		ug/L		08/24/23 05:25	08/24/23 10:28	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		08/24/23 05:25	08/24/23 11:15	1			
Arsenic	5.72		3.00		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Barium	79.2		5.00		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Chromium	29.6		5.00		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Cobalt	2.31		0.500		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Lead	11.0		2.50		ug/L		08/24/23 05:25	08/24/23 11:15	1			
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:15	1			

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-2

b Sample 1b. 000-237 939-2

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68732

Date Collected: 07/12/23 14:32 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICF	P) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	220000		500		ug/L		08/24/23 05:25	08/24/23 10:21	1
Selenium 	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Barium	94.3		5.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:02	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:02	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:02	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:02	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:02	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:02	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-3

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68740

Date Collected: 07/12/23 11:01 Date Received: 07/20/23 09:45

ethod: SW846 6010D - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	348000		500		ug/L		08/24/23 05:25	08/24/23 10:30	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:30	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		08/24/23 05:25	08/24/23 11:19	1
Arsenic	443		3.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Barium	186		5.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:19	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:19	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:19	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:19	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:19	1
Thallium	1.00	U	1.00		ua/l		08/24/23 05:25	08/24/23 11:19	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-4

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68743

Date Collected: 07/12/23 13:23

Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICP	) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19200		500		ug/L		08/24/23 05:25	08/24/23 10:33	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Barium	35.1		5.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:23	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:23	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:23	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:23	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:23	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:23	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-5

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68744

Date Collected: 07/12/23 13:28 Date Received: 07/20/23 09:45

	Method: SW846 6010D - Metals (IC	CP) - Total Red	coverable							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	20300		500		ug/L		08/24/23 05:25	08/24/23 10:35	1
L	Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Barium	36.9		5.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:27	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:27	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:27	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:27	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:27	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:27	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-8

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68725

Date Collected: 07/18/23 11:49 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICF	) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400000		500		ug/L		08/24/23 05:25	08/24/23 10:47	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:47	1
	20.0	U	20.0		ug/L		00/24/23 05.25	00/24/23 10.47	

Method: SW846 6020B - M	etals (ICP/MS) - Total	l Recoverabl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
Barium	270		5.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:47	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:47	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:47	1
Cobalt	0.500		0.500		ug/L		08/24/23 05:25	08/24/23 11:47	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:47	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:47	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-9

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68742

Date Collected: 07/18/23 14:53 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICF	P) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	61400		500		ug/L		08/24/23 05:25	08/24/23 10:49	1
Selenium 	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Barium	8.14		5.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:51	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:51	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:51	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:51	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:51	1
Thallium	1.00	U	1.00		ua/L		08/24/23 05:25	08/24/23 11:51	1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-10

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68747 Date Collected: 07/17/23 10:08 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (IC	P) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	519000		500		ug/L		08/24/23 05:25	08/24/23 10:51	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:51	1

Method: SW846 6020B - Me	tals (ICP/MS) - Total	Recoverable	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
Barium	36.3		5.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:55	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:55	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:55	1
Cobalt	4.31		0.500		ug/L		08/24/23 05:25	08/24/23 11:55	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:55	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:55	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-11

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68731

Date Collected: 07/17/23 11:15

Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICF	P) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	176000		500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:54	1
<u> </u>									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Barium	153		5.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:59	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:59	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 11:59	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 11:59	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 11:59	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 11:59	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68723 Lab Sample ID: 680-237959-12 Date Collected: 07/17/23 13:00

Matrix: Water

Job ID: 680-237959-2

Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	139000		500		ug/L		08/24/23 05:25	08/24/23 10:56	1
	Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
Barium	21.6		5.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:03	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:03	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:03	1
Cobalt	0.925		0.500		ug/L		08/24/23 05:25	08/24/23 12:03	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:03	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:03	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68724

Lab Sample ID: 680-237959-13

Matrix: Water

Job ID: 680-237959-2

Date Collected: 07/17/23 13:05 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	139000		500		ug/L		08/24/23 05:25	08/24/23 10:58	1
	Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 10:58	1
			U							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
Barium	22.9		5.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:07	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:07	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:07	1
Cobalt	0.975		0.500		ug/L		08/24/23 05:25	08/24/23 12:07	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:07	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:07	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-14

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68746 Date Collected: 07/17/23 14:24

Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable RL MDL Unit Dil Fac Result Qualifier Prepared Analyzed 97500 500 ug/L 08/24/23 05:25 08/24/23 11:01 Calcium 20.0 U 20.0 08/24/23 05:25 Selenium ug/L 08/24/23 11:01

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		08/24/23 05:25	08/24/23 12:11	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
Barium	191		5.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
Beryllium	0.695		0.500		ug/L		08/24/23 05:25	08/24/23 12:11	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:11	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:11	1
Cobalt	18.8		0.500		ug/L		08/24/23 05:25	08/24/23 12:11	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:11	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:11	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-15

Job ID: 680-237959-2

Matrix: Water

Date Collected: 07/13/23 14:16 Date Received: 07/20/23 09:45

**Client Sample ID: AF68726** 

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Calcium	1160000	5000	ug/L		08/24/23 05:25	08/25/23 09:25	10			
Selenium	20.0 U	20.0	ug/L		08/24/23 05:25	08/24/23 11:03	1			

Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Arsenic	22.3		3.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Barium	49.8		5.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:15	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:15	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:15	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:15	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:15	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:15	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

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Lab Sample ID: 680-237959-16

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68727 Date Collected: 07/13/23 14:21

Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
Analyte	R	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calciur	n 123	0000		5000		ug/L		08/24/23 05:25	08/25/23 09:27	10
Seleniu	m	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:05	1

Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Arsenic	18.2		3.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Barium	46.7		5.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:19	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:19	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:19	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:19	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:19	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:19	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-17

Matrix: Water

Job ID: 680-237959-2

Client Sample ID: AF68730 Date Collected: 07/13/23 10:01

Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICP) - Total Recoverable										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Calcium	165000		500		ug/L		08/24/23 05:25	08/24/23 11:12	1
	Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:12	1

Method: SW846 6020B - I	Metals (ICP/MS) - Total	(ICP/MS) - Total Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
Barium	85.4		5.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:31	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:31	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:31	1
Cobalt	0.735		0.500		ug/L		08/24/23 05:25	08/24/23 12:31	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:31	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:31	1

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Client: South Carolina Public Service Authority

Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-18

Matrix: Water

Job ID: 680-237959-2

Date Collected: 07/13/23 11:24 Date Received: 07/20/23 09:45

Client Sample ID: AF68729

Method: SW846 6010D - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	688000		500		ug/L		08/24/23 05:25	08/24/23 11:15	1
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:15	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		08/24/23 05:25	08/24/23 12:36	1		
Arsenic	7.80		3.00		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Barium	133		5.00		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:36	1		
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:36	1		

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-19

Job ID: 680-237959-2

Matrix: Water

Client Sample ID: AF68728

Date Collected: 07/13/23 13:32 Date Received: 07/20/23 09:45

Method: SW846 6010D - Metals (ICI	P) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	832000		5000		ug/L		08/24/23 05:25	08/25/23 09:30	10
Selenium	20.0	U	20.0		ug/L		08/24/23 05:25	08/24/23 11:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Arsenic	6.75		3.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Barium	82.3		5.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:40	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:40	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 12:40	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 12:40	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 12:40	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 12:40	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-794834/1-A

Matrix: Water

Analysis Batch: 795099

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 794834

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Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		08/24/23 05:25	08/24/23 10:16	1
Selenium	20.0	U	20.0	ι	ug/L		08/24/23 05:25	08/24/23 10:16	1

Lab Sample ID: LCS 680-794834/2-A

Analysis Batch: 795099

Client Sample ID: Lab Control Sample Matrix: Water **Prep Type: Total Recoverable** 

Prep Batch: 794834

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Calcium 5000 4816 96 80 - 120 ug/L Selenium 100 93.62 ug/L 94 80 - 120

Lab Sample ID: 680-237959-2 MS

Matrix: Water

Analysis Batch: 795099

Client Sample ID: AF68732

**Prep Type: Total Recoverable** Prep Batch: 794834

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec

Limits Calcium 220000 5000 215400 4 75 - 125 ug/L -88 Selenium 20.0 U 100 96.81 ug/L 97 75 - 125

Lab Sample ID: 680-237959-2 MSD

Matrix: Water

Analysis Batch: 795099

Client Sample ID: AF68732 **Prep Type: Total Recoverable** 

Prep Batch: 794834

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec Calcium 220000 5000 215500 4 ug/L -86 75 - 125 0 20 Selenium 20.0 U 100 95.16 ug/L 95 75 - 125 2 20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-794835/1-A

Matrix: Water

Analysis Batch: 795151

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

**Prep Batch: 794835** 

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	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Arsenic	3.00	U	3.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Barium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Beryllium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Cadmium	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Chromium	5.00	U	5.00		ug/L		08/24/23 05:25	08/24/23 10:54	1
Cobalt	0.500	U	0.500		ug/L		08/24/23 05:25	08/24/23 10:54	1
Lead	2.50	U	2.50		ug/L		08/24/23 05:25	08/24/23 10:54	1
Thallium	1.00	U	1.00		ug/L		08/24/23 05:25	08/24/23 10:54	1

Lab Sample ID: LCS 680-794835/2-A

Matrix: Water

Analysis Batch: 795151

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

Prep Batch: 794835

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	 	50.0	49.39		ug/L		99	80 - 120	

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Client: South Carolina Public Service Authority Job ID: 680-237959-2 Project/Site: 125915/JM02-08-G01.1/36500

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-794835/2-A Matrix: Water Analysis Batch: 795151					Client Sample ID: Lab Control Sampl Prep Type: Total Recoverab Prep Batch: 79483				
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic	100	105.6		ug/L		106	80 - 120		
Barium	100	100.0		ug/L		100	80 - 120		
Beryllium	50.0	50.74		ug/L		101	80 - 120		
Cadmium	50.0	48.95		ug/L		98	80 - 120		
Chromium	100	106.9		ug/L		107	80 - 120		
Cobalt	50.0	54.47		ug/L		109	80 - 120		
Lead	500	504.3		ug/L		101	80 - 120		
Thallium	50.0	48.11		ug/L		96	80 - 120		

Lab Sample ID: 680-237959-2 MS Client Sample ID: AF68732 Matrix: Water Prep Type: Total Recoverable Analysis Batch: 795151 **Prep Batch: 794835** 

Allalysis Datell. 133131									i iep bat	CII. 13403C
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	5.00	U	50.0	50.20		ug/L		100	75 - 125	
Arsenic	3.00	U	100	103.6		ug/L		104	75 - 125	
Barium	94.3		100	179.3		ug/L		85	75 - 125	
Beryllium	0.500	U	50.0	51.30		ug/L		103	75 - 125	
Cadmium	0.500	U	50.0	49.86		ug/L		100	75 - 125	
Chromium	5.00	U	100	105.6		ug/L		104	75 - 125	
Cobalt	0.500	U	50.0	53.02		ug/L		106	75 - 125	
Lead	2.50	U	500	503.2		ug/L		101	75 - 125	
Thallium	1.00	U	50.0	48.43		ug/L		97	75 - 125	

Lab Sample ID: 680-237959-2 MSD Client Sample ID: AF68732 Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 795151 **Prep Batch: 794835** 

<b>,</b>											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	5.00	U	50.0	54.09		ug/L		108	75 - 125	7	20
Arsenic	3.00	U	100	109.0		ug/L		109	75 - 125	5	20
Barium	94.3		100	192.8		ug/L		98	75 - 125	7	20
Beryllium	0.500	U	50.0	51.49		ug/L		103	75 - 125	0	20
Cadmium	0.500	U	50.0	52.76		ug/L		106	75 - 125	6	20
Chromium	5.00	U	100	110.4		ug/L		109	75 - 125	5	20
Cobalt	0.500	U	50.0	56.07		ug/L		112	75 - 125	6	20
Lead	2.50	U	500	525.7		ug/L		105	75 - 125	4	20
Thallium	1.00	U	50.0	51.37		ug/L		103	75 - 125	6	20

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

#### Metals

**Prep Batch: 794834** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-237959-1	AF68738	Total Recoverable	Water	3005A	_
680-237959-2	AF68732	Total Recoverable	Water	3005A	
680-237959-3	AF68740	Total Recoverable	Water	3005A	
680-237959-4	AF68743	Total Recoverable	Water	3005A	
680-237959-5	AF68744	Total Recoverable	Water	3005A	
680-237959-8	AF68725	Total Recoverable	Water	3005A	
680-237959-9	AF68742	Total Recoverable	Water	3005A	
680-237959-10	AF68747	Total Recoverable	Water	3005A	
680-237959-11	AF68731	Total Recoverable	Water	3005A	
680-237959-12	AF68723	Total Recoverable	Water	3005A	
680-237959-13	AF68724	Total Recoverable	Water	3005A	
680-237959-14	AF68746	Total Recoverable	Water	3005A	
680-237959-15	AF68726	Total Recoverable	Water	3005A	
680-237959-16	AF68727	Total Recoverable	Water	3005A	
680-237959-17	AF68730	Total Recoverable	Water	3005A	
680-237959-18	AF68729	Total Recoverable	Water	3005A	
680-237959-19	AF68728	Total Recoverable	Water	3005A	
MB 680-794834/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-794834/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-237959-2 MS	AF68732	Total Recoverable	Water	3005A	
680-237959-2 MSD	AF68732	Total Recoverable	Water	3005A	

Prep Batch: 794835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-237959-1	AF68738	Total Recoverable	Water	3005A	
680-237959-2	AF68732	Total Recoverable	Water	3005A	
680-237959-3	AF68740	Total Recoverable	Water	3005A	
680-237959-4	AF68743	Total Recoverable	Water	3005A	
880-237959-5	AF68744	Total Recoverable	Water	3005A	
80-237959-8	AF68725	Total Recoverable	Water	3005A	
80-237959-9	AF68742	Total Recoverable	Water	3005A	
80-237959-10	AF68747	Total Recoverable	Water	3005A	
80-237959-11	AF68731	Total Recoverable	Water	3005A	
80-237959-12	AF68723	Total Recoverable	Water	3005A	
80-237959-13	AF68724	Total Recoverable	Water	3005A	
80-237959-14	AF68746	Total Recoverable	Water	3005A	
80-237959-15	AF68726	Total Recoverable	Water	3005A	
80-237959-16	AF68727	Total Recoverable	Water	3005A	
80-237959-17	AF68730	Total Recoverable	Water	3005A	
80-237959-18	AF68729	Total Recoverable	Water	3005A	
80-237959-19	AF68728	Total Recoverable	Water	3005A	
/IB 680-794835/1-A	Method Blank	Total Recoverable	Water	3005A	
.CS 680-794835/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
80-237959-2 MS	AF68732	Total Recoverable	Water	3005A	
680-237959-2 MSD	AF68732	Total Recoverable	Water	3005A	

Analysis Batch: 795099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total Recoverable	Water	6010D	794834
680-237959-2	AF68732	Total Recoverable	Water	6010D	794834
680-237959-3	AF68740	Total Recoverable	Water	6010D	794834

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# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

### **Metals (Continued)**

### Analysis Batch: 795099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-4	AF68743	Total Recoverable	Water	6010D	794834
680-237959-5	AF68744	Total Recoverable	Water	6010D	794834
680-237959-8	AF68725	Total Recoverable	Water	6010D	794834
680-237959-9	AF68742	Total Recoverable	Water	6010D	794834
680-237959-10	AF68747	Total Recoverable	Water	6010D	794834
680-237959-11	AF68731	Total Recoverable	Water	6010D	794834
680-237959-12	AF68723	Total Recoverable	Water	6010D	794834
680-237959-13	AF68724	Total Recoverable	Water	6010D	794834
680-237959-14	AF68746	Total Recoverable	Water	6010D	794834
680-237959-15	AF68726	Total Recoverable	Water	6010D	794834
680-237959-16	AF68727	Total Recoverable	Water	6010D	794834
680-237959-17	AF68730	Total Recoverable	Water	6010D	794834
680-237959-18	AF68729	Total Recoverable	Water	6010D	794834
680-237959-19	AF68728	Total Recoverable	Water	6010D	794834
MB 680-794834/1-A	Method Blank	Total Recoverable	Water	6010D	794834
LCS 680-794834/2-A	Lab Control Sample	Total Recoverable	Water	6010D	794834
680-237959-2 MS	AF68732	Total Recoverable	Water	6010D	794834
680-237959-2 MSD	AF68732	Total Recoverable	Water	6010D	794834

#### Analysis Batch: 795151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total Recoverable	Water	6020B	794835
680-237959-2	AF68732	Total Recoverable	Water	6020B	794835
680-237959-3	AF68740	Total Recoverable	Water	6020B	794835
680-237959-4	AF68743	Total Recoverable	Water	6020B	794835
680-237959-5	AF68744	Total Recoverable	Water	6020B	794835
680-237959-8	AF68725	Total Recoverable	Water	6020B	794835
680-237959-9	AF68742	Total Recoverable	Water	6020B	794835
680-237959-10	AF68747	Total Recoverable	Water	6020B	794835
680-237959-11	AF68731	Total Recoverable	Water	6020B	794835
680-237959-12	AF68723	Total Recoverable	Water	6020B	794835
680-237959-13	AF68724	Total Recoverable	Water	6020B	794835
680-237959-14	AF68746	Total Recoverable	Water	6020B	794835
680-237959-15	AF68726	Total Recoverable	Water	6020B	794835
680-237959-16	AF68727	Total Recoverable	Water	6020B	794835
680-237959-17	AF68730	Total Recoverable	Water	6020B	794835
680-237959-18	AF68729	Total Recoverable	Water	6020B	794835
680-237959-19	AF68728	Total Recoverable	Water	6020B	794835
MB 680-794835/1-A	Method Blank	Total Recoverable	Water	6020B	794835
LCS 680-794835/2-A	Lab Control Sample	Total Recoverable	Water	6020B	794835
680-237959-2 MS	AF68732	Total Recoverable	Water	6020B	794835
680-237959-2 MSD	AF68732	Total Recoverable	Water	6020B	794835

#### Analysis Batch: 795156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-15	AF68726	Total Recoverable	Water	6010D	794834
680-237959-16	AF68727	Total Recoverable	Water	6010D	794834
680-237959-19	AF68728	Total Recoverable	Water	6010D	794834

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Job ID: 680-237959-2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68738

Lab Sample ID: 680-237959-1 Date Collected: 07/12/23 12:28

Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:28
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:15

Client Sample ID: AF68732

Lab Sample ID: 680-237959-2 Date Collected: 07/12/23 14:32

Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:21
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:02

Client Sample ID: AF68740

Lab Sample ID: 680-237959-3 Date Collected: 07/12/23 11:01

Matrix: Water

Date Received: 07/20/23 09:45

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Туре Run Factor Number Analyst Lab Total Recoverable Prep 3005A 794834 RR EET SAV 08/24/23 05:25 6010D 08/24/23 10:30 Total Recoverable Analysis 795099 BJB **EET SAV** Total Recoverable Prep 3005A 794835 RR EET SAV 08/24/23 05:25 795151 BWR 08/24/23 11:19 Total Recoverable Analysis 6020B **EET SAV** 1

Client Sample ID: AF68743

Lab Sample ID: 680-237959-4 Date Collected: 07/12/23 13:23

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:33
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:23

Client Sample ID: AF68744 Lab Sample ID: 680-237959-5

Date Collected: 07/12/23 13:28 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		<u> </u>	794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:35
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:27

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Matrix: Water

Job ID: 680-237959-2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68725

Lab Sample ID: 680-237959-8 Date Collected: 07/18/23 11:49

Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:47
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:47

Client Sample ID: AF68742 Date Collected: 07/18/23 14:53

Lab Sample ID: 680-237959-9

Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:49
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:51

**Client Sample ID: AF68747** 

Lab Sample ID: 680-237959-10

Matrix: Water

Date Collected: 07/17/23 10:08 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:51
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:55

**Client Sample ID: AF68731** 

Date Collected: 07/17/23 11:15

Date Received: 07/20/23 09:45

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:54
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 11:59

Client Sample ID: AF68723

Lab Sample ID: 680-237959-12

Matrix: Water

Date Collected: 07/17/23 13:00 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:56
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:03

**Eurofins Savannah** 

8/25/2023

Job ID: 680-237959-2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68724

Date Collected: 07/17/23 13:05 Date Received: 07/20/23 09:45 Lab Sample ID: 680-237959-13

Lab Sample ID: 680-237959-14

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 10:58
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:07

Client Sample ID: AF68746

Date Collected: 07/17/23 14:24

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:01
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:11

**Client Sample ID: AF68726** 

Lab Sample ID: 680-237959-15

Date Collected: 07/13/23 14:16 Matrix: Water

Date Received: 07/20/23 09:45

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:03
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		10	795156	BJB	EET SAV	08/25/23 09:25
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:15

Client Sample ID: AF68727

Date Collected: 07/13/23 14:21 Matrix: Water

Date Received: 07/20/23 09:45

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:05
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		10	795156	BJB	EET SAV	08/25/23 09:27
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:19

Client Sample ID: AF68730

Lab Sample ID: 680-237959-17 Date Collected: 07/13/23 10:01

Matrix: Water Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:12

**Eurofins Savannah** 

Page 34 of 40

Lab Sample ID: 680-237959-16

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

Client Sample ID: AF68730

Lab Sample ID: 680-237959-17

Matrix: Water

Date Collected: 07/13/23 10:01

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:31

Client Sample ID: AF68729

Lab Sample ID: 680-237959-18

Matrix: Water

Date Collected: 07/13/23 11:24 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:15
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:36

Client Sample ID: AF68728

Lab Sample ID: 680-237959-19

Matrix: Water

Date Collected: 07/13/23 13:32

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		1	795099	BJB	EET SAV	08/24/23 11:17
Total Recoverable	Prep	3005A			794834	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6010D		10	795156	BJB	EET SAV	08/25/23 09:30
Total Recoverable	Prep	3005A			794835	RR	EET SAV	08/24/23 05:25
Total Recoverable	Analysis	6020B		1	795151	BWR	EET SAV	08/24/23 12:40

#### Laboratory References:

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

# **Chain of Custody**



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

ustomer E	mail/R	il/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun				Rerun	request fo	or any	flagg	ed QC								
LCWILL	A	@:	santeecoo	per.com					1259	115	JM	02.0	9.601.1	36500	Yes	No .	1	
																	alysis G	roup
Labworks ID (Internal use only)		Sampl Descri	e Location/ ption		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	Misc.	Comments d # ting limit sample info ther notes		TOTAL METALS -SEE BELOW		
AF 68 72	6	WAP	-14		1/13/23	1416	WJK	١	P	G	GW	2	Ca, Se	- 6010		X	_	
+F6872		WAT	-14 DUP		1	1421	1	1		1			ALL OTH	ERS-6020		1		
AF6874		WAP			7/17/23	1003							-SEE	SHEET FOR R	LS.			-
AF6873		WAP			1	1115												$\perp$
AF-6872		WAP	-12			1300											-	_
AF 68724		WAP	-12 Dul	2		1305												
AF-68746		WAT	-28			1424	Ī	1	1	-	1	1						-
AF 6874	2	WAF	-25		7/18/23	1453	1	1	1	1		1				1		+
														Sample Receiving	- (Internal	Uca O	du)	
Relinquis	hed by:	LE	imployee#	Date	Time	Rece	ived by:		Employe	e#	Dat	e	Time	TEMP (°C):	g (mternar		'' <i>y)</i> l:	
Softgroun			5594	8/23/23	0900									Correct pH:	Yes No			
Relinquis		E	imployee#	Date	Time	Rece	ived by:		Employe	e#	Dat	e	Time	Preservative Lo				
Relinquis	hed by:	E	Employee#	Date	Time	Rece	ived by:		Employe	e#	Dat	te	Time					
														Date/Time/Init	for preserv	ative:		
		ETAI	LS (all)	Nur	trients	М	ISC.		G	ypsu	m		Coal	Fly	ash		Oil	
□Ag	□ Ct	u	Sb	- Company	OC OC	BTEX			□ Wall	board			□ Ultimate	□ Amm	nonia	UTr	ans. Oil	Qual:
□ Al	□ Fe		₽ Se	ED	oc	□ Napht				psum( low)	all		☐ % Moist ☐ Ash	ture LOI	erbon		Color	
As	ΠK		□ Sn		P/TPO4 H3-N	□ VOC			CI .	AIM			□ Sulfur	Mine Mine	eral		Acidity Dielectric	Strength
□В	□ Li	_	□ Sr	II.F	EASTERN .	□ Oil &				roc Fotal me	tals		☐ BTUs		nalysis		HFT Dissolva	ed Gases
Ba	□ M		□ Ti	n C		☐ Total	Coliform		0.5	soluble !	Metals		☐ Volatile	Matter Sieve		BU	sed Oil	
Be	□ M		₽TI	B		□ pH □ Dissol	ved As			urity (C Moist	CaSO4)		Other Tests:				Flushpo Metals	n oil
□ Ca	□M	_	UV	- IN	O3	☐ Dissol	ved Fe		0.5	Sulfites			□ XRF Scan □ HGI		DES		(As.Cd	Cr.Ni.Pb
<b>∠</b> Cd	O N	ía	□ Zn	ii S	04	☐ Rad 2 ☐ Rad 2			01	oH Chloride	es		☐ Fineness	FI As	Grease		Hg) TX	
Co	□N		□Hg			□РСВ				Particle	Size		□ Particulate M	atter   TSS			OFER	
Z Cr	OP.	b	☐ CrVI					[	El Sulf	ui								

# **Chain of Custody**



Santce Couper One Riverwood Drive Moneks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Custon	ner Ema	il/Report Reci	ipient:	Date	Results N	eeded l	by:		Pr	roject/	/Task/	Unit #:	Rerun req	uest fo	or any f	lagged Q
LCWI	LLIA	@sante	ecooper.co	m	J	/		125	915	J_JN	102,0	9.601.1/2	6500	es I	No	
															Analy	sis Group
(Internationally)		Sample Loca Description	ition/	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	Method #     Reporting     Misc. sam     Any other	ole info		TOTAL METALS -SEE BELOW	
AF68	738	WAP-21		7/12/2	3 1228	WJK	1	P	G	GW	2	ca, Se - 60	210		×	
AF68	732	WAP-16		T	1432	1	}		)	1	1	ALL OTHERS	6050		V	
AF68	140	WAP-23			101	Ī						-SEE SHEE	et for RLs.			
AF68	743	WAP-26			1323											
AF68	744	WAP-26 [	NIP 911C	1	1328											
AF687	30	WAT-140		7/13/23	3 1001											
AF687	129	WAP-148			1124											
AF687	128	WAP-14A			1332	1	_		1		1					
AF687	125	WAP-13		7/18/23	1149											
Relingu	ished by:	Employee#	Date	Time	Receive	ed by:	Em	ployee #		Date		Time Samp	ole Receiving (Intern	nal Use	Only)	
Symon	un	35594	8/23/23	0900					1			TEM	IP (°C):	Init	ial:	
Relinqui	ished by:	Employee#	Date	Time	Receive	d by:	Em	ployee #		Date		rime		No		
Relinqui	ished by:	Employee#	Date	Time	Receive	d by:	Em	ployee #		Date		Time	ervative Lot#:			
												Date	/Time/Init for prese	ervative	<b>:</b> :	
	□ ME	TALS (all)	Nut	rients	MIS	C.		Gyp	sum			Coal		T		
□ Ag □ Al	☐ Cu ☐ Fe	₩ Sb	□ TO		□ BTEX		100	Wallioa			_ u	Itimate	Flyash  Ammonia	25/8	Oil rans. Oil	
As	□K	□Sn	DC TP	TPO4	☐ Naphthale ☐ THM/HA			Gypsu below)				3 % Moisture	□ LO3	13	*iMoist	
В	□ Li	□Sr	DNE	MANOR OF THE REAL PROPERTY.	□ VOC			□ AIM			11	3 Ash 3 Sulfur	2 % Carbon		Color	- 1111
Ва	□Mg		- DF		☐ Oil & Grea	ase		□ TOC □ Total	mi stata			BTUs	☐ Mineral Analysis	- 41	Dielectric	Strength
Be	□Mn		□ NO	0	☐ Total Colin	form		D Solub		ls		Volatile Matter	☐ Sieve	1000	IFT Dissolve	d Gases
2 Ca	□ Mo		Br		☐ pH ☐ Dissolved.	As		D Purity		14)		CHN er Tests:	☐ % Moisture	III U	sed Oil	
Cd	□ Na	□ Zn	U NO	3	☐ Dissolved			□ % Mc				RF Scan	NPDES		Flashpoi Metals in	
			O SO		☐ Rad 226 ☐ Rad 228		Hái	□ pH □ Chlori	idae	1 1	2 HG	GI neness	DOil & Grease		(As.Cd.C	ENLP6
Co Cr	Ni Pb	□ Hg	100	_	□ PCB		No.	Partic				ticulate Matter	□ As		Hg) TX	
- 01	ro	☐ CrVI					0.5	Sulfur			FR		□ TSS		OFER	

Table of Reporting Limits for Groundwater Samples-- Metals Only

- Julii	pies Met	ulo Olliy	Departing
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	

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# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-237959-2

Login Number: 237959 List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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# **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-2

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date		
South Carolina	State	98001	06-30-23 *		

-3

4

6

8

10

11

13

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.





2040 Savage Road | Charleston, SC 29407





a member of The GEL Group INC

gel.com

September 21, 2023

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

Re: ABS Lab Analytical Work Order: 634957

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 634957 GEL Work Order: 634957

#### 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

Page 2 of 13 SDG: 634957

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

Certificate of Analysis

Report Date: September 21, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF75783 Sample ID: 634957001

Matrix: GW

Collect Date: 23-AUG-23 13:49 Receive Date: 25-AUG-23

Collector: Client

Project:

Client ID:

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.864	+/-0.711	1.13	3.00	pCi/L		JE1	09/21/23	1011 2494000	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.79	+/-0.825			pCi/L		1 LXB3	09/21/23	1536 2492737	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.923	+/-0.419	0.492	1.00	pCi/L		LXP1	09/20/23	1030 2486922	3
The following Analytic	al Methods w	ere nerfo	ormed:								

Description

EPA 904.0/SW846 9320 Modified Calculation EPA 903.1 Modified Nominal

Surrogate/Tracer Recovery Test Result Recovery% Acceptable Limits Barium-133 Tracer 99.1 (15%-125%) GFPC, Ra228, Liquid "As Received"

#### Notes:

Method

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

Page 3 of 13 SDG: 634957

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

Certificate of Analysis

Report Date: September 21, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF75784 Sample ID: 634957002

Matrix: GW

Collect Date: 23-AUG-23 11:09 Receive Date: 25-AUG-23

Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		1.83	+/-0.906	1.21	3.00	pCi/L		JE1	09/21/23	1011 2494000	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.55	+/-1.01			pCi/L		1 LXB3	09/21/23	1536 2492737	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.72	+/-0.436	0.213	1.00	pCi/L		LXP1	09/20/23	1030 2486922	3
The following Analytic	al Methods w	ere perfo	ormed:								

Method Description **Analyst Comments** EPA 904.0/SW846 9320 Modified

Calculation EPA 903.1 Modified

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

#### 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

Page 4 of 13 SDG: 634957

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: September 21, 2023

SOOP00119

SOOP001

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: AF75785 Sample ID: 634957003

Matrix: GW

Collect Date: 23-AUG-23 11:14
Receive Date: 25-AUG-23
Collector: Client

MDC RL Parameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.70 +/-0.8331.16 3.00 pCi/L JE1 09/21/23 1011 2494000 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum +/-1.08pCi/L LXB3 09/21/23 1536 2492737 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 2.74 +/-0.684 0.591 1.00 pCi/L LXP1 09/20/23 1030 2486922 3

The following Analytical Methods were performed:

Description

2 Calculation
3 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

95.9 (15%-125%)

#### **Notes:**

Method

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

EPA 904.0/SW846 9320 Modified

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

Page 5 of 13 SDG: 634957

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

Certificate of Analysis

Report Date: September 21, 2023

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: AF75786 Sample ID: 634957004

Matrix: GW

Collect Date: 23-AUG-23 12:35
Receive Date: 25-AUG-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Ana	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.958	+/-0.758	1.18	3.00	pCi/L		JE1	09/21/23	1011 2494000	1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		1.18	+/-0.789			pCi/L		1 LXB	3 09/21/23	1536 2492737	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226	U	0.226	+/-0.221	0.347	1.00	pCi/L		LXP	09/20/23	1030 2486922	3
The following Analytic	al Methods w	ere perfo	rmed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Result Nonlinial Recovery Acceptable Lilli
89.1 (15%-125%)

#### Notes:

Method

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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**QC** Summary

Report Date: September 21, 2023

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

**Contact:** Ms. Jeanette Gilmetti

Workorder: 634957

NOM	Sample	Qual	QC	Units	RPD%	REC%	Range A	Anlst	Date Time
	1.83	IJ	0 940	nCi/L	64.2		(0% - 100%)	IF1	09/21/23 10:11
Uncertainty	+/-0.906		+/-0.764	ренд	01.2		(070 10070)	321	03/21/23 10:11
			60. <b>2</b>	G: /r		00.4	(===( 1===()		00/01/00 10 10
77.6 Uncertainty			69.3 +/-3.77	pC1/L		89.3	(75%-125%)		09/21/23 10:10
Uncertainty		U	0.0450 +/-0.480	pCi/L					09/21/23 10:11
	0.023		1 10	nCi/I	24.0		(00/- 1000/-)	I VD1	00/20/23 11:02
Uncertainty	+/-0.419		+/-0.525	pCI/L	24.9		(076 - 10076)	LAIT	09/20/23 11:02
25.4			20.1	G'/I		405	(550/ 1050/)		00/00/00 11 00
27.1 Uncertainty			29.1 +/-1.95	pCı/L		107	(75%-125%)		09/20/23 11:03
Uncertainty		U	0.104 +/-0.264	pCi/L					09/20/23 11:02
135 Uncertainty	0.923 +/-0.419		154 +/-9.54	pCi/L		113	(75%-125%)		09/20/23 11:02
	Uncertainty  77.6 Uncertainty  Uncertainty  27.1 Uncertainty  Uncertainty	1.83 Uncertainty	1.83 U Uncertainty +/-0.906  77.6 Uncertainty  U Uncertainty  27.1 Uncertainty  U Uncertainty  U Uncertainty	1.83 U 0.940 Uncertainty +/-0.906	1.83 U 0.940 pCi/L Uncertainty +/-0.906	Uncertainty	Uncertainty	Uncertainty	1.83 U 0.940 pCi/L 64.2 (0% - 100%) JE1  Uncertainty +/-0.906  +/-0.764

#### **Notes:**

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 7 of 13 SDG: 634957

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

# **QC** Summary

Workorder: 634957

Parmname

NOM Sample Qual QC Units RPD% REC% Range AnIst Date Time

>	Result is greater than value reported	

- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M If above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

Page 8 of 13 SDG: 634957

# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 634957

**Product:** Radium-226+Radium-228 Calculation

**Analytical Method:** Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

**Analytical Batch:** 2492737

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

GEL Sample ID#	Client Sample Identification
634957001	AF75783
634957002	AF75784
634957003	AF75785
634957004	AF75786

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:** GFPC, Ra228, Liquid

<u>Analytical Method:</u> EPA 904.0/SW846 9320 Modified <u>Analytical Procedure:</u> GL-RAD-A-063 REV# 5

**Analytical Batch:** 2494000

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

GEL Sample ID#	Client Sample Identification
634957001	AF75783
634957002	AF75784
634957003	AF75785
634957004	AF75786
1205519878	Method Blank (MB)
1205519879	634957002(AF75784) Sample Duplicate (DUP)
1205519881	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.

Page 9 of 13 SDG: 634957

#### **Technical Information**

#### Sample Re-prep/Re-analysis

Samples were reprepped due to low carrier/tracer yield. The re-analysis is being reported.

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

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

**Analytical Batch:** 2486922

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

GEL Sample ID#	Client Sample Identification
634957001	AF75783
634957002	AF75784
634957003	AF75785
634957004	AF75786
1205506770	Method Blank (MB)
1205506771	634957001(AF75783) Sample Duplicate (DUP)
1205506773	634957001(AF75783) Matrix Spike (MS)
1205506775	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.

#### **Preparation Information**

#### **Aliquot Reduced**

1205506773 (AF75783MS) Aliquot was reduced due to limited 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.

Page 10 of 13 SDG: 634957

# **Chain of Custody**

10341957



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

Custon	ustomer Email/Report Recipient:  LCWILLA @santeecooper.com			Date R								for ar	ny fla	gged QC			
LCI	MULLA	@santee	cooper.com					1259	915	J_JM	102.0	9.601-1	7 3620	Yes	No		
															<u>A</u>	nalysi	Group
Labwo (Intern only)	rks ID # al use	Sample Locati Description	on/	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	Mei     Rep     Mis     Any	Comm thod # porting limit sc. sample in y other note	t nfo	RAD 226/238	TOTAL RAD CALC.	F, U, SO¥
AF7	5783	WAP-27		8/23/23	1349	2DM	3	P	G	GW	2/1				2	×	1
1	84	WAP-28		1	1109		1	1	1	1	1				1	1	1
	85	WAP-28 D			1114												
1	86	WAP-29		1	1235		1	1	1	1	I					1	1
														-			
Relin	quished by:	Employee#	Date	Time	Receiv	ed by:	S I E	mployee	#	Date	2	Time		Receiving (Interna			
L		34158	/	0940	Sall	7		GEL	8	3/25/	23	0940					
Relin	quished by:			Time	Receiv	ved by:	E	mployee		Date		Time	Correc	t pH: Yes N	0		
M	quished by:	GE L Employee#	9.75.33 Date	15015 Time	Sid	ut ved by:		G EL		25/2 Date		1545 Time	Preserv	vative Lot#:			
⇒Keiin	quisned by:	Етрюуеен	Date	Time	Recen	reu by.		mpioyee		Date		Time	Date/T	ime/Init for preser	vative:		
		ETALS (all)	Nuit	rients	BAL	cc		GV	psui	m	Tig.	Coa		Flunck		Oi	
□Ag	□С	u □ Sb	D TO	COLUMN TO CHEST STATE OF THE PARTY OF THE PA	MI □ BTEX	<u>sc.</u>		Wallbo	THE RESERVE			Ultimate		Flyash  Ammonia	HTr		l Qual.
□ Al			□ DC	C	□ Naphtha			Gyp	sum(a	all		☐ % Mois	sture	□ LOI	11	%Mois	
□ As	□К	二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		TPO4	□ THM/H □ VOC	AA	-	belo Al				☐ Ash ☐ Sulfur		□ % Carbon	ER/	Color Acidity	
□В	□ L		D F	ID-IN	□ Oil & G	rease	1	□ТО	C			BTUs		☐ Mineral Analysis		Dielectri FT	e Strength
□ Ba			D CI		☐ E. Coli ☐ Total Co	oliform	3		tal metal			□ Volatile	e Matter	□ Sieve	0.1	Dissolv	ed Gases
□ Be	□М		DNO	CHATCH CONTRACTOR	□ pH □ Dissolve		1	□ Pui	rity (Ca	sO4)		☐ CHN Other Tests:		□ % Moisture		lashpo	
□ Ca	□M	lo 🗆 V	□ Br		□ Dissolve		-	[] % [	Moistu Ifites	re	577.0	XRF Scan		NPDES	01	Metals	in oil
□ Cd	□N	a □ Zn	□ SO		☐ Rad 226			□pH				HGI Fineness		□ Oil & Grease		(As,Co	.Cr.Ni.Pb
□Со	□N	i 🗆 Hg		A PARTIES	□ PCB		1		lorides		THE RESERVED	Particulate N	fatter	□As	01	ΓX	
□ Cr	□ Pl	b □ CrVI		duta la				C Sulfur						□ TSS	GC	DEER	

Client: SOOT			SDG/AR/COC/Work Order: 030057
Received By: MAH - JIA)			Date Received: 8-25-23
Carrier and Tracking Number			Citcle Applicable: FedEx Express FedEx Ground UPS Field Services Couries Other
uspected Hazard Information	Yes	°Z	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
)Shipped as a DOT Hazardous?		1	Hazard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
Did the client designate the samples are to be ceived as radioactive?		1	COC notation or radioactive stickers on containers equal client designation.
Did the RSO classify the samples as dioactive?		1	Maximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
) Did the client designate samples are hazardous?		1	COC notation or hazard labels on containers equal client designation.
Did the RSO identify possible hazards?		1	1f D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria	Yes	NA	Z Comments/Qualifiers (Required for Non-Conforming Items)
Shipping containers received intact and sealed?	/		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
Chain of custody documents included with shipment?	/		Circle Applicable: Client contacted and provided COC COC created upon receipt
Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*	1		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:
Daily check performed and passed on IR temperature gun?	1		Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
Sample containers intact and sealed?			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
Samples requiring chemical preservation at proper pH?	1		Sample ID's and Containers Affected:  If Preservation added, Lot#:
Do any samples require Volatile Analysis?			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
Samples received within holding time?			Sample ID's and containers affected:  ID's and tests affected:
Sample ID's on COC match ID's on			ID's and containers affected:
bottles?  Date & time on COC match date & time on bottles?	1		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
Number of containers received match number indicated on COC?	/		Circle Applicable: No container count on COC Other (describe)
Are sample containers identifiable as GEL provided by use of GEL labels?	1		
COC form is properly signed in relinquished/received sections?	/		Circle Applicable: Not relinquished Other (describe)
mments (Use Continuation Form if needed):			

GL-CHL-SR-001 Rev 7

PM (or PMA) review: Initials

List of current GEL Certifications as of 21 September 2023

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	SC000122023-4
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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
w asimigion	C/80





gel.com

August 03, 2023

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

Re: ABS Lab Analytical Work Order: 628441

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 07, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

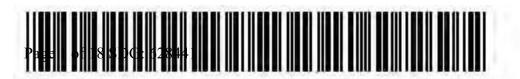
Sincerely,

Jessica Ward for Julie Robinson

Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 628441 GEL Work Order: 628441

#### 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.

	Street south	
Reviewed by	V	

1 12/201

Page 2 of 18 SDG: 628441

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: August 3, 2023

SOOP00119

SOOP001

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: AF68739 Sample ID: 628441001

Matrix: GW

Collect Date: 05-JUL-23 10:44
Receive Date: 07-JUL-23
Collector: Client

MDC RL Parameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 4.57 +/-1.50 1.82 3.00 pCi/L JE1 07/18/23 0924 2455718 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 4.74 +/-1.53 pCi/L NXL1 08/02/23 0858 2455717 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 0.165 +/-0.281 0.523 1.00 pCi/L LXP1 08/01/23 0944 2455712 3

The following Analytical Methods were performed:

Description

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" 69.8 (15%-125%)

#### **Notes:**

Method

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

Page 3 of 18 SDG: 628441

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

Certificate of Analysis

Report Date: August 3, 2023

SOOP00119

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: AF68735 Sample ID: 628441002

Matrix: GW

Collect Date: 05-JUL-23 09:35
Receive Date: 07-JUL-23
Collector: Client

Section Sectin Section Section Section Section Section Section Section Section

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid "	As Received"									
Radium-228		3.43	+/-1.21	1.39	3.00	pCi/L		JE1 07/18/23	0924 2455718	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		4.18	+/-1.28			pCi/L		NXL1 08/02/23	0858 2455717	2
Rad Radium-226										
Lucas Cell, Ra226, Liq	uid "As Recei	ved"								
Radium-226		0.746	+/-0.413	0.408	1.00	pCi/L		LXP1 08/01/23	1005 2455712	3
The following Analytic	cal Methods w	ere perfo	ormed:							
Method	Description					I	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 71.5 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 3, 2023

SOOP00119

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: AF68756 Sample ID: 628441003

Matrix: GW

Collect Date: 05-JUL-23 11:39
Receive Date: 07-JUL-23
Collector: Client

628441003 Client ID: SOOP001 GW

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Propor	rtional Counting										
GFPC, Ra228, Liquio	d "As Received"										
Radium-228		3.86	+/-1.36	1.70	3.00	pCi/L		JE1	07/18/23	0924 2455718	1
Radium-226+Radium	n-228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		4.33	+/-1.42			pCi/L		NXL1	08/02/23	0858 2455717	2
Rad Radium-226											
Lucas Cell, Ra226, L	iquid "As Recei	ved"									
Radium-226	U	0.471	+/-0.397	0.579	1.00	pCi/L		LXP1	08/01/23	1005 2455712	3
The following Analy	rtical Methods w	ere perfo	rmed:								
Method	Description					1	Analys	st Comment	s		
1	EPA 904.0/SW	/846 9320 N	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"

Result Nominal Recovery% Acceptable Limit Recovery% Acceptable Limit Recovery% Test Result Nominal Recovery% Acceptable Limit Reco

#### **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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 3, 2023

SOOP00119

SOOP001

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: AF68758 Sample ID: 628441004

Matrix: GW

Collect Date: 06-JUL-23 09:47
Receive Date: 07-JUL-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	0.938	+/-1.42	2.44	3.00	pCi/L		JE1	07/18/23	0924 2455718	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.48	+/-1.46			pCi/L		NXL1	08/02/23	0858 2455717	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.542	+/-0.339	0.302	1.00	pCi/L		LXP1	08/01/23	1005 2455712	. 3

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 70.9 (15%-125%)

#### **Notes:**

Method

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

Project:

Client ID:

**Analyst Comments** 

Report Date: August 3, 2023

SOOP00119

SOOP001

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: AF68759 Sample ID: 628441005

Matrix: GW

Collect Date: 06-JUL-23 09:52
Receive Date: 07-JUL-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228		4.73	+/-1.48	1.61	3.00	pCi/L		JE1	07/18/23	0924 2455718	1
Radium-226+Radium-	-228 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		5.19	+/-1.52			pCi/L		NXL1	08/02/23	0858 2455717	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Receiv	ved"									
Radium-226		0.462	+/-0.347	0.361	1.00	pCi/L		LXP1	08/01/23	1005 2455712	3
The fellowing Applyt	ical Mathada yy	ana nanfa	mm adı								

The following Analytical Methods were performed:

Description

1 EPA 904.0/SW846 9320 Modified
2 Calculation
3 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

69.5 (15%-125%)

#### Notes:

Method

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: August 3, 2023

SOOP00119

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: AF68736 Sample ID: 628441006

Matrix: GW

Collect Date: 06-JUL-23 11:21
Receive Date: 07-JUL-23
Collector: Client

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Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5								
GFPC, Ra228, Liquid "	As Received"	1								
Radium-228		4.13	+/-1.65	2.22	3.00	pCi/L		JE1 07/18/23	0924 2455718	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		4.94	+/-1.71			pCi/L		NXL1 08/02/23	$0858 \ 2455717$	2
Rad Radium-226										
Lucas Cell, Ra226, Liq	uid "As Recei	ved"								
Radium-226		0.812	+/-0.450	0.518	1.00	pCi/L		LXP1 08/01/23	1005 2455712	3
The following Analytic	cal Methods w	vere perfo	rmed:							
Method	Description					I	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	erv Test	Result	Nominal	Recoverv%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 61.2 (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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Certificate of Analysis

Report Date: August 3, 2023

SOOP00119

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: AF68753 Sample ID: 628441007

Matrix: GW

Collect Date: 06-JUL-23 13:08
Receive Date: 07-JUL-23
Collector: Client

628441007 Client ID: SOOP001

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date Tin	ne Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid ".	As Received"									
Radium-228	U	1.28	+/-0.974	1.50	3.00	pCi/L		JE1 07/18/23 092	4 2455718	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		2.34	+/-1.08			pCi/L		NXL1 08/02/23 085	8 2455717	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		1.05	+/-0.469	0.389	1.00	pCi/L		LXP1 08/01/23 100	5 2455712	3
The following Analytic	al Methods w	ere perfo	ormed:							
Method	Description					I	Analys	t Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	erv Test	Result	Nominal	Recoverv%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 69.4 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 3, 2023

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: AF68754 Sample ID: 628441008

Matrix: GW

Collect Date: 06-JUL-23 13:13
Receive Date: 07-JUL-23
Collector: Client

Description

D: AF68754 Project: SOOP00119 628441008 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		2.81	+/-1.24	1.67	3.00	pCi/L		JE1	07/18/23	0924 2455718	3 1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		3.13	+/-1.28			pCi/L		NXL1	08/02/23	0858 2455717	7 2
Rad Radium-226											
Lucas Cell, Ra226, Liquid "As Received"											
Radium-226	U	0.321	+/-0.315	0.466	1.00	pCi/L		LXP1	08/01/23	1005 2455712	2 3
The following Analytical Methods were performed:											

**Analyst Comments** 

1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer RecoveryTestResultNominalRecovery%Acceptable LimitsBarium-133 TracerGFPC, Ra228, Liquid "As Received"73.4(15%-125%)

#### **Notes:**

Method

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

Certificate of Analysis

Report Date: August 3, 2023

SOOP00119

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: AF68752 Sample ID:

Matrix: GW

Collect Date: 06-JUL-23 14:09 Receive Date: 07-JUL-23 Collector: Client

Project: 628441009 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst I	Date	Time	Batch	Method
Rad Gas Flow Proportion	onal Counting											
GFPC, Ra228, Liquid "	As Received"											
Radium-228		3.55	+/-1.26	1.46	3.00	pCi/L		JE1 07/	18/23	0924	2455718	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"									
Radium-226+228 Sum		3.61	+/-1.28			pCi/L		NXL1 08/	02/23	0858	2455717	2
Rad Radium-226												
Lucas Cell, Ra226, Liq	uid "As Recei	ved"										
Radium-226	U	0.0603	+/-0.237	0.525	1.00	pCi/L		LXP1 08/	01/23	1005	2455712	3
The following Analytic	cal Methods w	ere perfo	ormed:									
Method	Description					I	Analys	st Comments				

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

68.7 Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (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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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 3, 2023

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

**Contact:** Ms. Jeanette Gilmetti

Workorder: 628441

Parmname	NOM	Sample Qua	l QC	Units	RPD%	REC%	Range A	Anlst	Date Time
Rad Gas Flow Batch 2455718									
QC1205453175 628441001 DUP Radium-228	Uncertainty	4.57 +/-1.50	2.31 +/-1.23	pCi/L	65.8		(0% - 100%)	JE1	07/18/23 09:23
QC1205453176 LCS Radium-228	77.9 Uncertainty		79.3 +/-4.58	pCi/L		102	(75%-125%)		07/18/23 09:23
QC1205453174 MB Radium-228	Uncertainty	U	1.22 +/-1.25	pCi/L					07/18/23 11:01
Rad Ra-226 Batch 2455712 —— QC1205453161 628343001 DUP Radium-226	Uncertainty	5.77 +/-1.15	4.99 +/-1.05	pCi/L	14.5		(0%-20%)	LXP1	08/01/23 10:28
QC1205453163 LCS Radium-226	26.3 Uncertainty		21.5 +/-1.96	pCi/L		81.7	(75%-125%)		08/01/23 10:28
QC1205453160 MB Radium-226	Uncertainty	U	0.275 +/-0.333	pCi/L					08/01/23 10:28
QC1205453162 628343001 MS Radium-226	131 Uncertainty	5.77 +/-1.15	158 +/-13.8	pCi/L		116	(75%-125%)		08/01/23 10:28

#### Notes:

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

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Page 1 of 2

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

## QC Summary

Workorder: 628441

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

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

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

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#### Radiochemistry Technical Case Narrative Santee Cooper SDG #: 628441

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2455718

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
628441001	AF68739
628441002	AF68735
628441003	AF68756
628441004	AF68758
628441005	AF68759
628441006	AF68736
628441007	AF68753
628441008	AF68754
628441009	AF68752
1205453174	Method Blank (MB)
1205453175	628441001(AF68739) Sample Duplicate (DUP)
1205453176	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 1205453174 (MB) was recounted due to a suspected blank false positive. The recount is reported.

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

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

**Analytical Batch:** 2455712

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

GEL Sample ID#	Client Sample Identification
628441001	AF68739
628441002	AF68735

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628441003	AF68756
628441004	AF68758
628441005	AF68759
628441006	AF68736
628441007	AF68753
628441008	AF68754
628441009	AF68752
1205453160	Method Blank (MB)
1205453161	628343001(NonSDG) Sample Duplicate (DUP)
1205453162	628343001(NonSDG) Matrix Spike (MS)
1205453163	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, 1205453162 (Non SDG 628343001MS), aliquot was reduced to conserve sample volume.

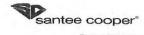
#### **Certification Statement**

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.

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# **Chain of Custody**

028441



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

Custome	r Email	/Rep	ort Recipie	nt:	Da	te Re	esults Ne	eded b	y:					Unit #:		Rerun request		y flag	gged QC
LCWIL	LIA		_@santeeco	ooper.com	-			-		125	715	1_11	402.	09.601.1	7 3620	oc (Yes	No		
																	<u>A</u>	nalysis	s Group
Labworks (Internal only)	1026 13	17 A 30 SEC	nple Location scription	n/	Collection Date		Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or	Matrix(see below)	Preservative (see	Me     Rep     Mis     Any	thod # porting limi sc. sample i y other note	info	RAD 226/228	TOTAL RAD CALC	
AF68	739	W	AP-22		7/5	/23	1044	WIK	2	P	G	GW	2				*	×	
AF68	135	W	AP-18				0935		1	1		1					1		
AF68	756	W	LF-A2-1		1		[139	1	1	1	7	1	7				1		
AF 687	58	WL	F-A2-6		7/6/	23	0947		1	1	1	1	+				4		
AF687	159	WL	F-A2-6	DUP			0952	1				4	$\mathbb{H}$				+		
AF 687	36	WA	HP-19		1		1121		H			+	+				+	+	
AF687	53	W	F-A-4		7/6	/23	1368		4	+	+	+					+		
AF687	54	WL	F-A1-41	DUP	H		1313		+	+	$\vdash$	+	+		-		+	$\vdash$	
AF687	52	W	LF-AI-3		1		1469	1_	1	1	1	1	1				1	1	
															Sample	e Receiving (Interna	l Use Oi	n/v)	
Relinqu	ished by	0/5/	Employee#	Date	Time	e	Recei	ved by:		Employe	e#	Da	te	Time		P (°C):			
Sgrow	in		35594	7/7/23	1019		MI	1		GEL	_	1/7/2		1019	Corre	ct pH: Yes N	0		
Relinqu	ished by		Employee#	Date	Time	е	Recei	ved by:		Employe		Da		Time		rvative Lot#:			
DI	1		151	77.27	11.	7	SIL	V	6	EL	.	7/7/	23	18/0	Fresei	rvative Lot#:			
Kelingu	ished by		Employee#	Date	Time	e	Recei	ved by:		Employe	e#	Da	te	Time	Date/	Time/Init for preser	vative:		
T-75-4	ПМ	PT.	ALS (all )		0.00	100			ERIB				4	C				200	
□Ag		122701		A STATE OF THE PARTY OF THE PAR	rient	5	ES. 10.000000	SC.		Walli	vpsu	m		Coa  Ultimate	-	Flyash  Ammonia	CONT	0	H Oual.
□ A1	□F	e	□ Se				□ BTEX □ Naphth	alene			psum(	all		☐ % Moi	sture	□ LOI	T.	%Moi	Control of the Contro
□ As	□K		□ Sn	□ TP	TPO4		□ THM/H □ VOC	AA			ow)			□ Ash		☐ % Carbon		Color Acidity	
□В	□L	i	□ Sr	□ NI	13-N	<b>%</b>	□ Oil & C	irease		OT	AIM OC			☐ Sulfur ☐ BTUs		☐ Mineral Analysis	BI	Dielean	ic Strength
□ Ba		1g	□ Ti	□ F □ Cl		-	☐ E. Coli ☐ Total C	oliform		DT	otal me		188	□ Volati	le Matter	☐ Sieve		IFT Dissol	ved Gases
□Ве	□N	1n	□ T1	□ NC			□pH		0			aSO4)	100	□ CHN		□ % Moisture	E U	sed O	il
□ Ca	□N	10	□V	□ Br			☐ Dissolv		1		Moist ulfites	ure	ORDER TO SERVICE	Other Tests  XRF Scan		NBDEC		Flashp Metals	
□ Cd	□N	la	□ Zn	□ SC			☐ Rad 22	5		Ор	H		- 3/1	□ HGI		NPDES  □ Oil & Grease	3/2	(As,C4	d.Cr.NLPb
□Со	ΠN		□ Hg			-	□ Rad 22	3			hloride article			☐ Fineness ☐ Particulate	Matter	□ As		Hg) TX	46 915
□ Cr			□ CrVI							□ Sulfu			410			□ TSS	0 6	OFER	

E 5	目	Laboratories LLC		SA	MPLE RECEIPT & REVIEW FORM
- Boston		200		SDG/AF	MPLE RECEIT TO 28441
ient:	5	001		Date R	eceived: Circle Applicable: Other
ceive	By:	SNS		Date	FedEx Express FedEx Ground UPS Field Services Country Other
		and Tracking Number		C	00/cr 1-3c C00/cr 2-12c  t Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
_		. r. c. — otion	Yes	2 *If Ne	t Counts > 100cpm on samples not marked Tadlouse
uspect	ed H	azard Information			UN#:   Class Shipped: UN#: No   No
				Y Hazar	I Class Shipped:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
Shin	ned as	s a DOT Hazardous?	-	4	notation or radioactive stickers on containers equal client designation.
узшр	pou -	the samples are to be		Vcoc	notation or radioactive stickers on contament of
3) Did	the c	lient designate the samples are to be radioactive?	-		Observed Counts - Area Background Counts.
				Maxi	Classified as: Rad 1 Rad 2 Rad 3
C) Die	the I	RSO classify the samples as	-	1-	
radioa					notation or hazard labels on containers equal client designation.
DID	d the	client designate samples are hazardous	?	A If D	or E is yes, select Hazards below.  Other:  RCRA Asbestos Beryllium Other:
				X	nCD's Hammanic 10000
E) D	id the	RSO identify possible hazards?	1 50	140	Comments/Qualifiers (Required for Non-Conforming Items)  Other (describe)
		Sample Receipt Criteria	Y P.S.	NA S	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
	Chin	oping containers received intact and	X		
1	ceal	ed?	-	7	Circle Applicable: Client contacted and provided
3	Sar wit	in of custody documents included h shipment?  supples requiring cold preservation thin (0 ≤ 6 deg. C)?*  ily check performed and passed on	1	X	Preservation Method: Wet Je Ice Packs Dry ice None Other:  *all temperatures are recorded in Celsius  Temperature Device Serial #: IR1-23  Secondary Temperature Device Serial # (If Applicable):  Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
-		inperature gun? Imple containers intact and sealed?			
1 5				1	Sample ID's and Containers Affected:
	S	amples requiring chemical preserva	поп		If Preservation added, Lot#: No NA (If yes, take to VOA Freezer)
	6 at	proper pH?			If Preservation added, Loif:  If Yes, are Encores or Soil Kits present for solids? Yes No NA (If yes, take to Vort teess,  If Yes, are Encores or Soil Kits preservation? Yes No NA (If unknown, select No)  Do liquid VOA vials contain acid preservation? Yes No NA
		Volatile			V Landiguid VOA vials fiee of headpear
	7	Do any samples require Volatile Analysis?			Sample ID's and containers affected:
	-	Villa lare.			ID's and tests affected:
- 1			-0	1	ID's and tests affection
1		Samples received within holding ti	ne!	V	ID's and containers affected:
-	8			1	10's and community Other (describe)
				V	thinger ( I & missing not
		Sample ID's on COC match ID's or		X	Circle Applicable: No dates on containers No times on containers
	9	Sample ID's on COC match ID's or bottles?		11	Circle Applicable: No dates on contame
	9	Sample ID's on COC match ID's or bottles? Date & time on COC match date &		11	Circle Applicable: No dates on contame
	9	Sample ID's on COC match ID's or bottles?  Date & time on COC match date & on bottles?	e time	11	Circle Applicable: No dates on containers No times on containers Coo new Coordinates Coord
	9	Sample ID's on COC match ID's or bottles?  Date & time on COC match date & on bottles?  Number of containers received match the indicated on COC?	time	11	Circle Applicable: No dates on contame
	9	Sample ID's on COC match ID's or bottles?  Date & time on COC match date & on bottles?  Number of containers received manumber indicated on COC?	tch	X	Circle Applicable: No container count on COC Other (describe)  Circle Applicable: No container count on COC Other (describe)
	9	Sample ID's on COC match ID's or bottles?  Date & time on COC match date & on bottles?  Number of containers received mumber indicated on COC?  Are sample containers identifiable of COC?	tch	11	Circle Applicable: No container count on COC Other (describe)  Circle Applicable: No container count on COC Other (describe)
	9 10 11	Sample ID's on COC match ID's or bottles?  Date & time on COC match date & on bottles?  Number of containers received manumber indicated on COC?  Are sample containers identifiable GEL provided by use of GEL lab COC form is properly signed in	tch	X	Circle Applicable: No container count on COC Other (describe)  Circle Applicable: No container count on COC Other (describe)

Page 17 of 18 SDG: 628441

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Date 1/10/23 Page

List of current GEL Certifications as of 03 August 2023

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	SC000122023-4					
New Hampshire NELAP	2054					
New Jersey NELAP	SC002					
New Mexico	SC002 SC00012					
New York NELAP	11501					
North Carolina	233					
North Carolina SDWA	45709					
North Dakota	R-158					
Oklahoma	2022-160					
Pennsylvania NELAP	68-00485					
Pennsylvania NELAP  Puerto Rico	SC00012					
S. Carolina Radiochem	10120002					
Sanitation Districts of L	9255651					
South Carolina Chemistry	10120001					
Tennessee Teves NEL A P	TN 02934					
Texas NELAP	T104704235-22-20					
Utah NELAP	SC000122022-37					
Vermont	VT87156					
Virginia NELAP	460202					
Washington	C780					





2040 Savage Road | Charleston, SC 29407 843 556 8171

gel.com

October 26, 2023

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

Re: ABS Lab Analytical Work Order: 639285

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 29, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

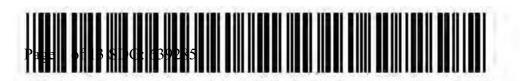
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Jordan Melton for Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 639285 GEL Work Order: 639285

#### 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 Dordon Melton

Page 2 of 13 SDG: 639285

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

Certificate of Analysis

Report Date: October 26, 2023

1

2

3

SOOP00119

SOOP001

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: AF79064 Sample ID: 639285001

Matrix: GW

Collect Date: 26-SEP-23 12:13
Receive Date: 29-SEP-23
Collector: Client

Parameter Qualifier Result Uncertainty MDC RL Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting

Project:

Client ID:

**Analyst Comments** 

GFPC, Ra228, Liquid "As Received"

Radium-228 U 0.698 +/-0.999 1.71 3.00 pCi/L JE1 10/10/23 1123 2502094

Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum 1.46 +/-1.08 pCi/L NXL1 10/26/23 1206 2511601

Radium-226+228 Sum 1.46 +/-1.08 Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226 0.763 +/-0.411 0.390 1.00 pCi/L LXP1 10/26/23 0846 2502095

The following Analytical Methods were performed:

Method Description

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

Page 3 of 13 SDG: 639285

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

Certificate of Analysis

Report Date: October 26, 2023

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Ms. Jeanette Gilmetti Contact: Project: ABS Lab Analytical

Client Sample ID: AF79065 Sample ID: 639285002

Matrix: GW

Collect Date: 27-SEP-23 10:49 Receive Date: 29-SEP-23

Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.944	+/-1.32	2.25	3.00	pCi/L		JE1	10/10/23	1123 2502094	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		4.29	+/-1.62			pCi/L		NXL1	10/26/23	1206 2511601	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	id "As Recei	ved"									
Radium-226		3.34	+/-0.934	0.605	1.00	pCi/L		LXP1	10/26/23	0846 2502095	3
The following Analytic	al Methods w	ere perfo	rmed:								

Method Description **Analyst Comments** EPA 904.0/SW846 9320 Modified Calculation EPA 903.1 Modified

Nominal Acceptable Limits Surrogate/Tracer Recovery Test Result Recovery% Barium-133 Tracer (15%-125%) GFPC, Ra228, Liquid "As Received" 84.6

#### 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

Page 4 of 13 SDG: 639285

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

Certificate of Analysis

Project:

Client ID:

Report Date: October 26, 2023

LXP1 10/26/23 0846 2502095

3

SOOP00119

SOOP001

Company: Santee Cooper P.O. Box 2946101 Address:

OCO<sub>3</sub>

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF79066 Sample ID: 639285003

Matrix: GW

Collect Date: 27-SEP-23 10:54 Receive Date: 29-SEP-23 Collector: Client

MDC RL Parameter Qualifier Result Uncertainty Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.02 +/-0.7101.06 3.00 pCi/L JE1 10/10/23 1123 2502094 1 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum 2.44 +/-0.887 pCi/L NXL1 10/26/23 1206 2511601 2 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"

1.00

pCi/L

Radium-226 +/-0.531 The following Analytical Methods were performed:

Method Description **Analyst Comments** EPA 904.0/SW846 9320 Modified

1.42

2 Calculation 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%)

0.515

#### 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

Page 5 of 13 SDG: 639285

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

Certificate of Analysis

Report Date: October 26, 2023

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: AF79067 Sample ID: 639285004

Matrix: GW

Collect Date: 27-SEP-23 13:19
Receive Date: 29-SEP-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		1.70	+/-0.886	1.25	3.00	pCi/L		JE1	10/10/23	1123 2502094	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.33	+/-1.03			pCi/L		NXL1	10/26/23	1206 2511601	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.63	+/-0.519	0.313	1.00	pCi/L		LXP1	10/26/23	0846 2502095	3
The following Analytic	al Methods w	ere perfo	ormed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Result Nominal Recovery% Acceptable Limit Recover

#### Notes:

Method

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

Page 6 of 13 SDG: 639285

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

**QC** Summary

Report Date: October 26, 2023

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

**Contact:** Ms. Jeanette Gilmetti

Workorder: 639285

Parmname	NOM	Sample Qua	al QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gas Flow Batch 2502094								
QC1205534749 639285001 DUP Radium-228	U	0.698 U	0.820	C:/I	NT/A		NI/A IE1	10/10/22 11:22
Radium-228			0.830 +/-0.775	pCi/L	N/A		N/A JE1	10/10/23 11:22
	Uncertainty	+/-0.999	+/-0.773					
QC1205534750 LCS								
Radium-228	77.3		77.2	pCi/L		99.8	(75%-125%)	10/10/23 11:23
	Uncertainty		+/-4.08					
QC1205534748 MB								
Radium-228		U	0.205	pCi/L				10/10/23 11:22
	Uncertainty		+/-0.562	F				
Rad Ra-226 Batch 2502095 ———								
QC1205534752 639285001 DUP		0.762	0.770	C'./I	0.026		(00/ 1000/) LVD1	10/06/03 00 46
Radium-226	TT 4 * 4	0.763	0.770	pCi/L	0.836		(0% - 100%) LXP1	10/26/23 08:46
	Uncertainty	+/-0.411	+/-0.440					
QC1205534754 LCS								
Radium-226	27.1		32.7	pCi/L		121	(75%-125%)	10/26/23 09:18
	Uncertainty		+/-2.41					
OC1205534751 MB								
QC1205534751 MB Radium-226		U	0.390	pCi/L				10/26/23 08:46
Rudium 220	Uncertainty		+/-0.449	penz				10/20/23 00.10
	•							
QC1205534753 639285001 MS								
Radium-226	109	0.763	110	pCi/L		99.6	(75%-125%)	10/26/23 09:18
	Uncertainty	+/-0.411	+/-8.53					

#### **Notes:**

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 7 of 13 SDG: 639285

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### **QC** Summary

Workorder: 639285

Page 2 of 2

Parmname	NOM	Sample Qu	ual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

Page 8 of 13 SDG: 639285

# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 639285

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2502094

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

<b>GEL Sample ID#</b>	Client Sample Identification
639285001	AF79064
639285002	AF79065
639285003	AF79066
639285004	AF79067
1205534748	Method Blank (MB)
1205534749	639285001(AF79064) Sample Duplicate (DUP)
1205534750	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.

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

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

**Analytical Batch:** 2502095

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

GEL Sample ID#	Client Sample Identification
639285001	AF79064
639285002	AF79065
639285003	AF79066
639285004	AF79067
1205534751	Method Blank (MB)
1205534752	639285001(AF79064) Sample Duplicate (DUP)
1205534753	639285001(AF79064) Matrix Spike (MS)
1205534754	Laboratory Control Sample (LCS)

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

Page 9 of 13 SDG: 639285

#### **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, 1205534753 (AF79064MS), aliquot was reduced to conserve sample volume.

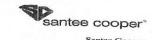
#### **Certification Statement**

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.

Page 10 of 13 SDG: 639285

# **Chain of Custody**

439,284



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

	ILLIA	@sante	ecooper.com	Date	Results N	eeded 1	oy: -	125°			/Task/I		1.1 / 36		equest t	No		
Labwo (Intern only)	rks ID # al use	Sample Locat 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)		Co Method # Reporting li Misc. sampl Any other n	e info		RAD 226/228	TOTAL RAD CALC	s Group  + C(, SO+
A=7	7064	WAP-27		9/26/23	3 1213	ZDM B58	3	P	G	GW	2/					2	×	1
)	65	WAP -28		9/27/23	8 1.110		1	ı	1	1	1					1	,	1
				1/21/2					+		$\vdash$	-				+	+	+
-	66	WAP - 28	DUP		1054													
	67	WAP-29		1	1319	<u></u>		1	<u> </u>									_
Relinq	uished by: uished by:	Employee#  3 G S S S Employee#  Employee#	Date 9/21/23 Date  Date	Time Time	Receive Receive	ed by:	Em	pployee #	9/	Date  29/2  Date  Date		Time	Corre	le Receiving (In: P (°C): ect pH: Yes rvative Lot#:		e Only		
772 7 20		TALS (all )	2.5.0					14 -1 -1					Date/	Time/Init for p	reservati	ve:		
□ Ag	□ Cu	□ Sb	Nutri	March Company	MIS  BTEX	<u>C.</u>	D.	Gyp Wallboa	sum			Co		Flyash			Oil	
□ Al	□ Fe	☐ Se	□ DOC		□ Naphthale			Gypsi	ım(all			Itimate  3 % Mo		☐ Ammonia ☐ LOI	200		s. Oil Moist	Qual.
□ B	□Li	□ Sr	☐ TP/T ☐ NH3-	N	□ THM/HA □ VOC			below,				Ash		☐ % Carbon		Col	lor	
□ Ba		SCHOOL SECTION	□F		□ Oil & Gre □ E. Coli	ase		DTOC				☐ Sulfur☐ BTUs		☐ Mineral		U Diel	ectric S	Strength
	□Mg				☐ Total Coli	form	1		metals ole Meta		1 004 2000 000		le Matter	Analys  ☐ Sieve	18	□ IFT		l Gases
□ Be	□ Mn		□ NO2 □ Br		□ pH □ Dissolved	As		D Purit	y (CaSC			CHN	A 42 1	□ % Moistur	e	Used	Oil	
□ Ca	□ Mo	3 1 5 6 7 7	□ NO3		Dissolved Dissolved			□ % Mo			TEAN 2005-0554	er Test	S:	41555		□ Fla:	shpoin	
□ Cd	□ Na	□ Zn	□ SO4		Rad 226 Rad 228		1/2 -	□рH			□ HO	31		NPDES	_	(As	,Cd,C	r.Ni.Pb
□ Co	□ Ni	□ Hg			PCB		N HOLD	□ Chlor □ Partic			0.0000000000000000000000000000000000000	neness rticulate	Matter	☐ Oil & Grease		Hg		
□ Cr	□ Pb	☐ CrVI					0.	Sulfur				THE MARKS		□ TSS	100	GOF		

			SDG/AR/COC/Work Order: 124794 1.0020
Received By: QG			Date Received: 9/29/23
Carrier and Tracking Number			FedEx Express FedEx Ground UPS Field Services Courier Other
uspected Hazard Information	Yes	No	N(A
	7	Z	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
Shipped as a DOT Hazardous?		1	Hazard Class Shipped:  UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
Did the client designate the samples are to be reived as radioactive?		1	COC notation or radioactive stickers on containers equal client designation.
Did the RSO classify the samples as floactive?		~	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPwH/mR/Hr  Classified as: Rad 1 Rad 2 Rad 3
Did the client designate samples are hazardous	,	-	COC notation or hazard labels on containers equal client designation.
Did the RSO identify possible hazards?		1	f D or E is yes, select Hazards below.  PCB's Flammable Fronting Stift Provided Hazards below.
Sample Receipt Criteria	Yes	AN N	CRA Asbestos Beryllium Other:
Shipping containers received intact and sealed?	7	Z	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
Chain of custody documents included with shipment?			Circle Applicable: Client contacted and provided COC COC created upon receipt
Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	1		Preservation Method: Wet Jee Toe Packs Dry ice None Other:
Daily check performed and passed on IR temperature gun?	1		Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
Sample containers intact and sealed?	1		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
Samples requiring chemical preservation at proper pH?	1		Sample ID's and Contamers Affected:
Do any samples require Volatile Analysis?	Age of the		If Preservation added, Lot#:  If Yes, are Encores or Soil Kits present for solids? Yes No NA (If yes, take to VOA Freezer)  Defiquid 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:
Samples received within holding time?		1	ID's and tests affected:
Sample ID's on COC match ID's on oottles?		1	ID's and containers affected:
Date & time on COC match date & time n bottles?	1		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
fumber of containers received match umber indicated on COC?	1		Circle Applicable: No container count on COC Other (describe)
re sample containers identifiable as EL provided by use of GEL labels?		1	
OC form is properly signed in linquished/received sections?		1	Circle Applicable: Not relinquished Other (describe)
ents (Use Continuation Form if needed):			, and the second

GL-CHL-SR-001 Rev 7

JR

List of current GEL Certifications as of 26 October 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-04
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Vermont Virginia NELAP	460202
	C780
Washington	C/80



# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 7/14/2023 2:17:57 PM

# **JOB DESCRIPTION**

125915/JM02.08.G01.1/36500

## **JOB NUMBER**

680-237587-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



## **Eurofins Savannah**

#### **Job Notes**

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

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

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Job ID: 680-237587-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-237587-1

#### Receipt

The samples were received on 7/12/2023 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.4°C

#### Metals

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

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### **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237587-1	AF68758	GW	07/06/23 09:47	07/12/23 10:03
680-237587-2	AF68759	GW	07/06/23 09:52	07/12/23 10:03
680-237587-3	AF68736	GW	07/06/23 11:21	07/12/23 10:03
680-237587-4	AF68753	GW	07/06/23 13:08	07/12/23 10:03
680-237587-5	AF68754	GW	07/06/23 13:13	07/12/23 10:03
680-237587-6	AF68752	GW	07/06/23 14:09	07/12/23 10:03
680-237587-7	AF68739	GW	07/05/23 10:44	07/12/23 10:03
680-237587-8	AF68755	GW	07/05/23 09:35	07/12/23 10:03
680-237587-9	AF68756	GW	07/05/23 11:39	07/12/23 10:03

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### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	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.G01.1/36500

Job ID: 680-237587-1

#### Qualifiers

Metals

U Indicates the analyte was analyzed for but not detected.

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

#### Glossary

MQL

NC

ND

NEG

POS

PQL

PRES

QC

RL RPD

TEF

TEQ

TNTC

RER

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Most Probable Number

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#### **Detection Summary**

Project/Site: 125915/JM02.08.G01.1/36500 Client Sample ID: AF68758 Lab Sample ID: 680-237587-1 No Detections. Client Sample ID: AF68759 Lab Sample ID: 680-237587-2 No Detections. Lab Sample ID: 680-237587-3 Client Sample ID: AF68736 No Detections. Client Sample ID: AF68753 Lab Sample ID: 680-237587-4 No Detections. Client Sample ID: AF68754 Lab Sample ID: 680-237587-5 No Detections. Client Sample ID: AF68752 Lab Sample ID: 680-237587-6 No Detections. Client Sample ID: AF68739 Lab Sample ID: 680-237587-7 No Detections. Client Sample ID: AF68755 Lab Sample ID: 680-237587-8 No Detections. Client Sample ID: AF68756 Lab Sample ID: 680-237587-9

Client: South Carolina Public Service Authority

No Detections.

Job ID: 680-237587-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

**Client Sample ID: AF68758** Lab Sample ID: 680-237587-1 Date Collected: 07/06/23 09:47

Matrix: GW

Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (	CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:32	1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-237587-2

Job ID: 680-237587-1

Matrix: GW

Date Collected: 07/06/23 09:52 Date Received: 07/12/23 10:03

Client Sample ID: AF68759

Method: SW846 7470A - Mercury (C	CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:37	1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-237587-3

Prepared

Analyzed

Matrix: GW

Dil Fac

Job ID: 680-237587-1

Client Sample ID: AF68736 Date Collected: 07/06/23 11:21

Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (CVAA) RL MDL Unit Result Qualifier

Mercury 0.200 U 0.200 ug/L 07/14/23 08:42 07/14/23 14:38

Client: South Carolina Public Service Authority

Job ID: 680-237587-1

Project/Site: 125915/JM02.08.G01.1/36500

**Client Sample ID: AF68753** Lab Sample ID: 680-237587-4

Matrix: GW

Date Collected: 07/06/23 13:08 Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (CVAA) RL MDL Unit Dil Fac Result Qualifier Prepared Analyzed Mercury 0.200 U 0.200 ug/L 07/14/23 08:42 07/14/23 14:40

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-237587-5

Analyzed

07/14/23 14:41

Job ID: 680-237587-1

Matrix: GW

Dil Fac

Client Sample ID: AF68754 Date Collected: 07/06/23 13:13

Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (CVAA) RL MDL Unit Result Qualifier Prepared Mercury 0.200 U 0.200 ug/L 07/14/23 08:42

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Client Sample ID: AF68752

Lab Sample ID: 680-237587-6

Matrix: GW

Date Collected: 07/06/23 14:09 Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result Qualifie	r RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200 U	0.200	ug/L		07/14/23 08:42	07/14/23 14:43	1

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Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-237587-7

Matrix: GW

Job ID: 680-237587-1

Client Sample ID: AF68739 Date Collected: 07/05/23 10:44

Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (C	JVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	)	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L			07/14/23 08:42	07/14/23 14:48	1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500

**Client Sample ID: AF68755** 

Lab Sample ID: 680-237587-8

Matrix: GW

Job ID: 680-237587-1

Date Collected: 07/05/23 09:35 Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (	CVAA)							
Analyte	Result	Qualifier	RL	MDL Uni	t [	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200	ug/l		07/14/23 08:42	07/14/23 14:49	1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-237587-9

Job ID: 680-237587-1

Matrix: GW

**Client Sample ID: AF68756** Date Collected: 07/05/23 11:39

Date Received: 07/12/23 10:03

Method: SW846 7470A - Mercury (C	CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		07/14/23 08:42	07/14/23 14:51	1

#### QC Sample Results

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Client Sample ID: Method Blank

RPD

Limit

20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-788246/1-A

Matrix: Water

Analyte

Mercury

Analysis Batch: 788395

мв мв

Result Qualifier

Sample Sample

Result Qualifier

0.200 U

0.200 U

Spike

Added

2.50

Spike

Added

1.00

RL MDL Unit 0.200

LCS LCS

MS MS

Qualifier

2.658

Result

1.036

Result Qualifier

D ug/L

Unit

ug/L

Unit

ug/L

Prepared 07/14/23 08:42

%Rec

%Rec

104

106

D

Analyzed 07/14/23 14:29

%Rec

Limits

80 - 120

%Rec

Limits

80 - 120

%Rec

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

**Prep Batch: 788246** 

Prep Type: Total/NA

**Prep Batch: 788246** 

Prep Type: Total/NA

**Prep Batch: 788246** 

Client Sample ID: AF68758

Prep Type: Total/NA

Prep Batch: 788246

Dil Fac

Lab Sample ID: LCS 680-788246/2-A Matrix: Water

Analysis Batch: 788395

Analyte Mercury

Lab Sample ID: 680-237587-1 MS

Matrix: GW Analysis Batch: 788395

Analyte

Mercury

Lab Sample ID: 680-237587-1 MSD Matrix: GW

Analysis Batch: 788395

Mercury

Analyte

Sample Sample Result Qualifier 0.200 U

Spike Added

1.00 1.022

MSD MSD Result Qualifier

Unit ug/L

%Rec Limits 102

RPD 80 - 120

Client Sample ID: AF68758

### **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

#### Metals

**Prep Batch: 788246** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237587-1	AF68758	Total/NA	GW	7470A	
680-237587-2	AF68759	Total/NA	GW	7470A	
680-237587-3	AF68736	Total/NA	GW	7470A	
680-237587-4	AF68753	Total/NA	GW	7470A	
680-237587-5	AF68754	Total/NA	GW	7470A	
680-237587-6	AF68752	Total/NA	GW	7470A	
680-237587-7	AF68739	Total/NA	GW	7470A	
680-237587-8	AF68755	Total/NA	GW	7470A	
680-237587-9	AF68756	Total/NA	GW	7470A	
MB 680-788246/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-788246/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237587-1 MS	AF68758	Total/NA	GW	7470A	
680-237587-1 MSD	AF68758	Total/NA	GW	7470A	

#### Analysis Batch: 788395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237587-1	AF68758	Total/NA	GW	7470A	788246
680-237587-2	AF68759	Total/NA	GW	7470A	788246
680-237587-3	AF68736	Total/NA	GW	7470A	788246
680-237587-4	AF68753	Total/NA	GW	7470A	788246
680-237587-5	AF68754	Total/NA	GW	7470A	788246
680-237587-6	AF68752	Total/NA	GW	7470A	788246
680-237587-7	AF68739	Total/NA	GW	7470A	788246
680-237587-8	AF68755	Total/NA	GW	7470A	788246
680-237587-9	AF68756	Total/NA	GW	7470A	788246
MB 680-788246/1-A	Method Blank	Total/NA	Water	7470A	788246
LCS 680-788246/2-A	Lab Control Sample	Total/NA	Water	7470A	788246
680-237587-1 MS	AF68758	Total/NA	GW	7470A	788246
680-237587-1 MSD	AF68758	Total/NA	GW	7470A	788246

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7/14/2023

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Job ID: 680-237587-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF68758

Lab Sample ID: 680-237587-1 Date Collected: 07/06/23 09:47

Matrix: GW

Date Received: 07/12/23 10:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	ВСВ	EET SAV	07/14/23 14:32

Client Sample ID: AF68759 Lab Sample ID: 680-237587-2

Matrix: GW

Date Collected: 07/06/23 09:52 Date Received: 07/12/23 10:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:37

Client Sample ID: AF68736 Lab Sample ID: 680-237587-3

Date Collected: 07/06/23 11:21 Matrix: GW

Date Received: 07/12/23 10:03

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab Total/NA 7470A 788246 DW **EET SAV** 07/14/23 08:42 Prep Total/NA 07/14/23 14:38 Analysis 7470A 788395 BCB **EET SAV** 1

Client Sample ID: AF68753 Lab Sample ID: 680-237587-4

Date Collected: 07/06/23 13:08 Matrix: GW

Date Received: 07/12/23 10:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:40

Client Sample ID: AF68754 Lab Sample ID: 680-237587-5

Date Collected: 07/06/23 13:13 Matrix: GW

Date Received: 07/12/23 10:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:41

Client Sample ID: AF68752 Lab Sample ID: 680-237587-6

Date Collected: 07/06/23 14:09 Matrix: GW

Date Received: 07/12/23 10:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	ВСВ	EET SAV	07/14/23 14:43

Eurofins Savannah

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

Lab Sample ID: 680-237587-7

Matrix: GW

Client Sample ID: AF68739 Date Collected: 07/05/23 10:44

Date Received: 07/12/23 10:03

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			788246	DW	EET SAV	07/14/23 08:42
Total/NA	Analysis	7470A		1	788395	BCB	EET SAV	07/14/23 14:48

Client Sample ID: AF68755 Lab Sample ID: 680-237587-8

Date Collected: 07/05/23 09:35 Matrix: GW Date Received: 07/12/23 10:03

Batch Batch Dilution Batch Prepared Method **Prep Type** Type Run Factor Number Analyst Lab or Analyzed Prep Total/NA 7470A 788246 DW EET SAV 07/14/23 08:42 07/14/23 14:49 Total/NA 7470A 788395 BCB Analysis **EET SAV** 

Client Sample ID: AF68756 Lab Sample ID: 680-237587-9

Date Collected: 07/05/23 11:39 Matrix: GW Date Received: 07/12/23 10:03

Batch Batch Dilution Batch Prepared or Analyzed Method **Prep Type** Type Run Factor Number Analyst Lab Total/NA Prep 7470A 788246 **EET SAV** 07/14/23 08:42 **EET SAV** 07/14/23 14:51 Total/NA Analysis 7470A 788395 BCB 1

Laboratory References:

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

Annice Cooper One Riverwood Drive Moncks Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 2719-17(-849)761-4148
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	#		Comments bod # ining limit sample info other notes	osiM •	Preservative (see below)	Matrix(see below)	Grab (G) or Composite (C)	Bottle type: (Glass- G/Plastic-P)	Total # of containers	Sample Collector	Collection Time	Collection Date		mple Location, scription		labworks II (Internal usi only)
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680-237587 Chain of Custody

### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-237587-1

Login Number: 237587 List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

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

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### **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-237587-1

#### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date		
South Carolina	State	98001	06-30-23 *		

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 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 



# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 10/6/2023 1:08:33 PM

## **JOB DESCRIPTION**

125915/JM02.09.G01.1/36500

### **JOB NUMBER**

680-241003-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



## **Eurofins Savannah**

#### **Job Notes**

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

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

#### **Authorization**

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Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

Job ID: 680-241003-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-241003-1

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

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

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

#### Receipt

The samples were received on 9/29/2023 10:22 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 21.3°C

#### Metals

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

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### **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received		
680-241003-1	AF79064	GW	09/26/23 12:13	09/29/23 10:22		
680-241003-2	AF79065	GW	09/27/23 10:49	09/29/23 10:22		
680-241003-3	AF79066	GW	09/27/23 10:54	09/29/23 10:22		
680-241003-4	AF79067	GW	09/27/23 13:19	09/29/23 10:22		

### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	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

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### **Definitions/Glossary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Job ID: 680-241003-1

#### **Qualifiers**

Metal	s
-------	---

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

ND

NEG

POS

PQL

PRES

QC

RLRPD

TEF

TEQ

TNTC

RER

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

Eurofins Savannah

### **Detection Summary**

Lab Sample ID: 680-241003-1
Lab Sample ID: 680-241003-2
Lab Sample ID: 680-241003-3
Lab Sample ID: 680-241003-4

Job ID: 680-241003-1

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Client: South Carolina Public Service Authority

No Detections.

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-241003-1

Job ID: 680-241003-1

Matrix: GW

Client Sample ID: AF79064 Date Collected: 09/26/23 12:13

Date Received: 09/29/23 10:22

Method: SW846 7470A - Mercury (	CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	0.200	U	0.200		ua/l		10/03/23 12:11	10/03/23 16:36	

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-241003-2

Matrix: GW

Job ID: 680-241003-1

**Client Sample ID: AF79065** Date Collected: 09/27/23 10:49 Date Received: 09/29/23 10:22

Method: SW846 7470A - Mercury (CVAA)

RL MDL Unit Dil Fac Result Qualifier Prepared Analyzed Mercury 0.200 U 0.200 ug/L 10/03/23 12:11 10/03/23 16:38

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-241003-3

Matrix: GW

Job ID: 680-241003-1

**Client Sample ID: AF79066** Date Collected: 09/27/23 10:54

Date Received: 09/29/23 10:22

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		10/03/23 12:11	10/03/23 16:40	1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF79067

Date Collected: 09/27/23 13:19

Date Received: 09/29/23 10:22

Lab Sample ID: 680-241003-4

Matrix: GW

10/03/23 16:43

Method: SW846 7470A - Mercury (CVAA) RL MDL Unit Result Qualifier Prepared Mercury 0.200 U 0.200 ug/L 10/03/23 12:11

Dil Fac Analyzed

Job ID: 680-241003-1

#### **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-800807/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 800852 Prep Batch: 800807 MB MB

Result Qualifier MDL Unit Dil Fac Analyte RLD Prepared Analyzed 10/03/23 12:11 Mercury 0.200 U 0.200 ug/L 10/03/23 16:32

Lab Sample ID: LCS 680-800807/2-A Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 800852 **Prep Batch: 800807** 

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Mercury 2.50 2.613 ug/L 105 80 - 120

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

#### Metals

Prep Batch: 800807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241003-1	AF79064	Total/NA	GW	7470A	
680-241003-2	AF79065	Total/NA	GW	7470A	
680-241003-3	AF79066	Total/NA	GW	7470A	
680-241003-4	AF79067	Total/NA	GW	7470A	
MB 680-800807/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-800807/2-A	Lab Control Sample	Total/NA	Water	7470A	

#### Analysis Batch: 800852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241003-1	AF79064	Total/NA	GW	7470A	800807
680-241003-2	AF79065	Total/NA	GW	7470A	800807
680-241003-3	AF79066	Total/NA	GW	7470A	800807
680-241003-4	AF79067	Total/NA	GW	7470A	800807
MB 680-800807/1-A	Method Blank	Total/NA	Water	7470A	800807
LCS 680-800807/2-A	Lab Control Sample	Total/NA	Water	7470A	800807

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

Client Sample ID: AF79064 Lab Sample ID: 680-241003-1 Date Collected: 09/26/23 12:13

Matrix: GW

Date Received: 09/29/23 10:22

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:36

Client Sample ID: AF79065 Lab Sample ID: 680-241003-2

Date Collected: 09/27/23 10:49 Matrix: GW

Date Received: 09/29/23 10:22

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:38

Client Sample ID: AF79066 Lab Sample ID: 680-241003-3

Date Collected: 09/27/23 10:54 Matrix: GW

Date Received: 09/29/23 10:22

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A	·		800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:40

Client Sample ID: AF79067 Lab Sample ID: 680-241003-4

Date Collected: 09/27/23 13:19

Date Received: 09/29/23 10:22

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			800807	DW	EET SAV	10/03/23 12:11
Total/NA	Analysis	7470A		1	800852	DW	EET SAV	10/03/23 16:43

Laboratory References:

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

**Eurofins Savannah** 

Matrix: GW

# **Chain of Custody**



Santee Coope One Riverwood Driv Moncks Corner, SC 2946 Phone: (843)761-8000 Ext. 514 Fav: (843)761-417

Labworks ID# (Internal use only)	De	@santeed	ooper.com n/	Collection Date	n Time		9	125	715	<u>J</u> JM	02.0	7.601.1	<u> 3620</u>	Yes	No <u>A</u>	nalysis Group	
(Internal use only)	De	escription	n/	llection Date	n Time	, io	1 .								A	nalysis Group	
(Internal use only)	De	escription	n/	llection Date	n Time	Į,											
AF79064	V	NAP-27		8	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Rej     Mi	Commented # porting limit so. sample in y other note:	nfo	Hg		
		7.1		9/26/23	1213	SDW SDW	1	þ	G	GW	2	7470	RL< 0.	2 ug/L	×		
AF79065	h	JAP-28		7/27/23	1049		1	11						1	×		
AF79066	W	AP-28 DI	117	1	1054	-									Х		
AF79067	W	AP-29			1319	1	L	1		1	1				×		
										l				-			
									_680	0-2410	03 Cha	in of Custo	ody				
Relinquished b	y:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date	e	Time		Receiving (Internation)			
Moun		35594	9/28/23	1200													
Relinquished b	y:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date	2	Time	63-4	t pH: Yes No rative Lot#:	0		
Relinquished b	y:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date	e /	Time		.8/21.3			
					/1/r	X			C	1/29	1/23	1022		me/Init for preser			
		ALS (all)	Nuis	ments C	M	sc.	- 100	Gy	psur	n	3	Coa		Frasi	1000	Oil	
	Cu	☐ Sb	ОТО		BTEX			Wallbo			0	Ultimate				ns, Oil Qual.	
	Fe		DO:	The second secon	<ul><li>□ Naphtha</li><li>□ THM/H.</li></ul>				sum(a	II	34 3	☐ % Mois	ture	□ LOI		Moisture olor	
□ As □		□ Sn		3-N	□ VOC		- 8	belon I AI			Se VIES	☐ Ash☐ Sulfur		☐ % Carbon ☐ Mineral	SIA	eidity	
0 B 0	1	□ Sr	OF.	6958GH-	□ Oil & Gi ■ E. Coli	rease		OTO			99	□ BTUs		Analysis	DIF	electric Strength	
	Mg	□ Ti		55000	□ Total Co	liform			al meta uble M			□ Volatile	Matter	☐ Sieve	965		
	Mn	o m	□ NO:		□ pH □ Dissolve	d Ac	1	□ Pur	ity (Ca	SO4)	0	☐ CHN ther Tests:	F435	□ % Moisture		d Oil ashpoint	
□ Ca □	Мо	UV	□ NO:		☐ Dissolve		-		Moistur fites	e		KRF Scan		NPDES	Li M	etals in oil	1
□ Cd □	Na	□ Zn	□ SO4	000000	☐ Rad 226 ☐ Rad 228			□pH				HGI Fineness		□ Oil & Grease		(s.Cd,Cr,Ni,Pl	
	Ni	☐ Hg		_	□ Rad 228		9		orides ticle Siz	ze		articulate M	latter	□ As	CI	X	
□ Cr □	Pb	□ CrVI	333					□ Sulfur		331		Maria Const	Market S	□ TSS	I GO	ER	1-

## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-241003-1

Login Number: 241003 List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-241003-1

#### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

000 211000 1

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 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 





gel.com

July 27, 2023

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

Re: ABS Lab Analytical Work Order: 627961

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 30, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Sample containers were not received, client contacted, client stated these were added to COC in error. 627961005(AF68715), 627961006(AF68722). All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

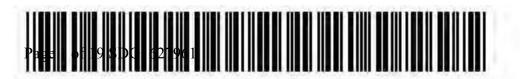
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 627961 GEL Work Order: 627961

#### 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.

	Julia	Knie
Reviewed by	<u> </u>	

Page 2 of 19 SDG: 627961

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

Certificate of Analysis

Report Date: July 27, 2023

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: AF68719 Sample ID: 627961001

Matrix: GW

Collect Date: 29-JUN-23 10:48 Receive Date: 30-JUN-23 Collector: Client Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid "	As Received"									
Radium-228		3.47	+/-1.34	1.77	3.00	pCi/L		JE1 07/17/23	1510 2454081	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		5.06	+/-1.49			pCi/L		NXL1 07/24/23	1519 2462863	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		1.59	+/-0.659	0.553	1.00	pCi/L		LXP1 07/24/23	0755 2454082	3
The following Analytic	cal Methods w	ere perfo	ormed:							
Method	Description					I	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 72.3 (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

Page 3 of 19 SDG: 627961

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: July 27, 2023

SOOP00119

SOOP001

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: AF68720 Sample ID: 627961002

Matrix: GW

Collect Date: 29-JUN-23 11:40 Receive Date: 30-JUN-23 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting										
GFPC, Ra228, Liquid '	'As Received"										
Radium-228		2.79	+/-1.53	2.25	3.00	pCi/L		JE1	07/19/23	1027 2454081	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		5.75	+/-1.77			pCi/L		NXL1	07/24/23	1519 2462863	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		2.96	+/-0.886	0.398	1.00	pCi/L		LXP1	07/24/23	0755 2454082	3

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 69.2 (15%-125%)

#### Notes:

Method

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

Page 4 of 19 SDG: 627961

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Certificate of Analysis

Report Date: July 27, 2023

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: AF68721 Sample ID: 627961003

Matrix: GW

Collect Date: 29-JUN-23 11:45
Receive Date: 30-JUN-23
Collector: Client

Description

Project: SOOP00119 Client ID: SOOP001

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		2.71	+/-1.47	2.21	3.00	pCi/L		JE1	07/17/23	1511 2454081	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		8.64	+/-1.94			pCi/L		NXL1	07/24/23	1519 2463279	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		5.93	+/-1.26	0.485	1.00	pCi/L		LXP1	07/24/23	0844 2454082	3
The following Analytic	al Methods w	ere perfo	ormed:								

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Result Norminal Recovery Acceptable Limit Recovery 71.3 (15%-125%)

#### Notes:

Method

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 27, 2023

SOOP00119

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: AF68713 Sample ID: 627961004

Matrix: GW

Collect Date: 29-JUN-23 13:51
Receive Date: 30-JUN-23
Collector: Client

627961004 Client ID: SOOP001 GW

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date Time Bate	n Method
Rad Gas Flow Proporti	ional Counting								
GFPC, Ra228, Liquid	"As Received"								
Radium-228		3.09	+/-1.46	2.09	3.00	pCi/L		JE1 07/17/23 1511 24540	31 1
Radium-226+Radium-	228 Calculation	n "See Pa	arent Products"						
Radium-226+228 Sum		4.34	+/-1.58			pCi/L		NXL1 07/24/23 1519 24632	79 2
Rad Radium-226									
Lucas Cell, Ra226, Lic	quid "As Receiv	ved"							
Radium-226	_	1.25	+/-0.604	0.599	1.00	pCi/L		LXP1 07/24/23 0844 24540	32
The following Analyti	ical Methods w	ere perfo	ormed:						
Method	Description		Analyst Comments						

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 68.9 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: July 27, 2023

SOOP00119

SOOP001

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: AF68714 Sample ID: 627961007

Matrix: GW

Collect Date: 28-JUN-23 14:09
Receive Date: 30-JUN-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228	U	1.04	+/-1.00	1.64	3.00	pCi/L		JE1	07/17/23	1511 2454081	1
Radium-226+Radium-	228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		2.57	+/-1.22			pCi/L		NXL1	07/24/23	1519 2463279	2
Rad Radium-226											
Lucas Cell, Ra226, Lic	quid "As Recei	ved"									
Radium-226		1.53	+/-0.701	0.635	1.00	pCi/L		LXP1	07/24/23	0844 2454082	3
The following Analyst	ical Mathada x	zara narfa	rmad:								

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified		-		
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

71.1 (15%-125%)

#### Notes:

Method

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 27, 2023

SOOP00119

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: AF68712 Sample ID: 627961008

Matrix: GW

Collect Date: 28-JUN-23 15:20
Receive Date: 30-JUN-23
Collector: Client

Description

7961008 Client ID: SOOP001

Project:

**Analyst Comments** 

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batcl	n Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	1.17	+/-1.12	1.85	3.00	pCi/L		JE1	07/17/23	1511 245408	1 1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		3.01	+/-1.31			pCi/L		NXL1	07/24/23	1519 246286	3 2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.83	+/-0.674	0.477	1.00	pCi/L		LXP1	07/24/23	0844 245408	2 3
The following Analytical Methods were performed:											

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 70.5 (15%-125%)

#### Notes:

Method

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

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: July 27, 2023

SOOP00119

SOOP001

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: AF68748 Sample ID: 627961009

Matrix: GW

Collect Date: 27-JUN-23 10:15 Receive Date: 30-JUN-23 Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	5									
GFPC, Ra228, Liquid	"As Received"	1									
Radium-228		3.93	+/-1.52	1.92	3.00	pCi/L		JE1	07/19/23	1027 2454081	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		4.32	+/-1.56			pCi/L		NXL1	07/24/23	1519 2462863	2
Rad Radium-226											
Lucas Cell, Ra226, Liquid "As Received"											
Radium-226	U	0.388	+/-0.369	0.553	1.00	pCi/L		LXP1	07/24/23	0844 2454082	3
The following Analytical Methods were performed:											

Description

2 Calc	culation				
3 EPA	A 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
D : 122 F	CEDC D 220 I. THA D . III			70.3	(150/ 1050/)

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 70.2 (15%-125%)

Method

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

EPA 904.0/SW846 9320 Modified

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

Certificate of Analysis

Report Date: July 27, 2023

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: AF68711 Sample ID: 627961010

Matrix: GW

Collect Date: 27-JUN-23 11:26 Receive Date: 30-JUN-23 Collector: Client Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	-0.145	+/-1.35	2.52	3.00	pCi/L		JE1	07/17/23	1511 2454081	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.85	+/-1.54			pCi/L		NXL1	07/24/23	1519 2462863	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		1.85	+/-0.737	0.659	1.00	pCi/L		LXP1	07/24/23	0844 2454082	3
The following Analytic	al Methods w	ere perfo	ormed:								
Method	Description					F	Analys	st Comment	S		

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

Result Nominal Recovery Acceptable Lim
72.3 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

**Analyst Comments** 

Report Date: July 27, 2023

SOOP00119

SOOP001

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: AF68717 Sample ID: 627961011

Matrix: GW

Collect Date: 27-JUN-23 13:57
Receive Date: 30-JUN-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	5									
GFPC, Ra228, Liquid	"As Received"	1									
Radium-228	U	2.51	+/-1.64	2.55	3.00	pCi/L		JE1	07/17/23	1511 2454081	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		2.96	+/-1.69			pCi/L		NXL1	07/24/23	1519 2462863	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226	U	0.446	+/-0.395	0.554	1.00	pCi/L		LXP1	07/24/23	0844 2454082	3
			_								

The following Analytical Methods were performed:

Description

1	EPA 904.0/SW846 9320 Modified				
2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 63.3 (15%-125%)

#### Notes:

Method

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

**QC** Summary

Report Date: July 27, 2023

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

**Contact:** Ms. Jeanette Gilmetti

Workorder: 627961

<b>Parmname</b>	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gas Flow Batch 2454081 ——									
QC1205450523 627961001 DUP Radium-228	Uncertainty	3.47 +/-1.34	U	1.53 +/-1.36	pCi/L	77.9		(0% - 100%) JE1	07/17/23 15:10
QC1205450524 LCS Radium-228	78.2 Uncertainty			67.7 +/-4.40	pCi/L		86.6	(75%-125%)	07/17/23 15:10
QC1205450522 MB Radium-228	Uncertainty		U	1.44 +/-1.05	pCi/L				07/17/23 15:10
Rad Ra-226 Batch 2454082 ———									
QC1205450526 627961001 DUP Radium-226	Uncertainty	1.59 +/-0.659		1.22 +/-0.539	pCi/L	26.5		(0% - 100%) LXP1	07/24/23 10:06
QC1205450528 LCS Radium-226	52.9 Uncertainty			55.4 +/-3.58	pCi/L		105	(75%-125%)	07/24/23 10:06
QC1205450525 MB Radium-226	Uncertainty		U	0.282 +/-0.403	pCi/L				07/24/23 09:22
QC1205450527 627961001 MS Radium-226	132 Uncertainty	1.59 +/-0.659		136 +/-13.5	pCi/L		101	(75%-125%)	07/24/23 10:06

#### **Notes:**

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

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 12 of 19 SDG: 627961

Page 1 of 2

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

### **QC** Summary

Workorder: 627961

Page 2 of 2

Parmname	NOM	Sample Qu	ual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- \*\* Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

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.

Page 13 of 19 SDG: 627961

# Radiochemistry Technical Case Narrative Santee Cooper SDG #: 627961

**Product:** GFPC, Ra228, Liquid

**Analytical Method:** EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

**Analytical Batch:** 2454081

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
627961001	AF68719
627961002	AF68720
627961003	AF68721
627961004	AF68713
627961007	AF68714
627961008	AF68712
627961009	AF68748
627961010	AF68711
627961011	AF68717
1205450522	Method Blank (MB)
1205450523	627961001(AF68719) Sample Duplicate (DUP)
1205450524	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 627961002 (AF68720) and 627961009 (AF68748) were re-eluted and recounted to verify sample results. The recounts are reported.

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

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

**Analytical Batch:** 2454082

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

GEL Sample ID# Client Sample Identification

627961001 AF68719

Page 14 of 19 SDG: 627961

627961002	AF68720
627961003	AF68721
627961004	AF68713
627961007	AF68714
627961008	AF68712
627961009	AF68748
627961010	AF68711
627961011	AF68717
1205450525	Method Blank (MB)
1205450526	627961001(AF68719) Sample Duplicate (DUP)
1205450527	627961001(AF68719) Matrix Spike (MS)
1205450528	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.

#### **Preparation Information**

#### **Aliquot Reduced**

1205450527 (AF68719MS) Aliquot was reduced due to limited 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.

Page 15 of 19 SDG: 627961

# **Chain of Custody**



Santee Coope One Riverwood Drive Moncks Corner, SC 2946 Phone: (843)761-8000 Ext. 5148 Phone: (843)761-81761-8176

Customer	Email/	Report Reci	pient:	Date R	esults No	eeded b	y:		Pr	oject/	Task/	Unit #:	Rerun	request f	or an	y fla	gged O	(C
LCWILL	JA.	@sante	ecooper.com					1250	715	JJM	02.0	8.6Ø1.3	136500	Yes	No			
															<u>A</u>	nalysi	Group	
Labworks (Internal u only)	30.7.0	Sample Loca Description	tion/	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	Re   Mi	Comments thod # porting limit sc. sample info y other notes		RAD 226	RAD 228	TOTAL RAD CALC	
AF6871	19	WAP-9		6/29/23	1048	WIK	2	P	6	GW	2				1	1	x	
A+6872	20	WAP - 10			(140		1		1									
AF-6877	21	WAP-10	DUP		1145													
AF-68.71	3	WAP-3			1351													
AF6871	5	WAP-5			0947													
A#6872	12	WAP-II		1	1453	1	1	1	-	1	1					1	1	
													-					
Relinquis Relinquis	h	35594	6/30/23	Time	mil	ved by:		Employee	6	Date   30/2	3	Time (035)	Sample Receiving TEMP (°C):  Correct pH:		Ise Or Initia			
M. A. Relinquis	^_ shed by:	GEL Employee		\Z35 Time	L C Recei	ved by:		6 EL		J3G Date		(285 Time	Preservative Lot  Date/Time/Init f		ativo.			
	пми	TAIS (all				20.10				20.30					ative.			977
□ Ag □ C □ C □ Al □ F C □ Ba □ Li □ Ba □ M □ Be □ M □ C □ C □ N □ C □ C □ P P C □ C □ P C □ C □ P C □ C □		B □ Se □ Sn □ Sn □ Sr g □ Ti n □ Tl O □ V a □ Zn i □ Hg	D TO D DO D TP D NH D F D C1 D NO D Br D NO	OC /TPO4 13-N 02	MI  BTEX  Naphth THM/I  VOC Gil & C E Coli Total C DH Dissolv Rad 22 Rad 22 PCB	Grease Coliform red As red Fe		Wallburger	osum(ow) IM OC otal metaluble Nority (C Moistalifiles Inlorides	all als detals aSO4) me	( 0 0	Coa  Ultimate  Moi Ash Sulfur BTUs Volati CHN Other Tests XRF Scan HGI Fineness Particulate	☐ Ammo ☐ LOI ☐ % Can ☐ Miner Ar Ar ☐ Mother ☐ Sieve ☐ % Mo ☐ MPE	oma  rbon  ral  nalysis  sisture	D C C C C C C C C C C C C C C C C C C C	Volta Color Accidity Selectric Color Accidity Selectric Color Accidity Selectric Color Accidity	il Qual. sture e Strength ed Gase il out in oil LC1,Ni,P	

# **Chain of Custody**



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

Customer Emai	il/Report Recipie	ent:	Date	Results N	eeded b	γ:		Pr	roject/	Task/	'Unit #:		Rerun request	for a	ny fla	gged Q	įC
LINDA - WILLIA	™S @santeec	ooper.com					125	915	<u>/ m</u>	02.6	8.Gø 1.3	3€≥∞	Yes	No			
														E	nalys	s Group	
Labworks ID # (Internal use only)	Sample Location Description	p/	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	Re Mi	Comme withod # porting limit sc. sample info y other notes		RAD 226	KAD 728	TOTAL RAD CALC.	
AF68714	WAP-4		6/28/2	३ ।५०न	MJK MT	2	P	G	ew	2				Ţ.	l	X	_
AF68712	WAR- 2		1	1520				-	1	1						1	_
AF68748	wsw-1		6/27/2	3  015													_
AF68711	WAP-1			1126													_
AF68717	WAR-7			1857		_	1	1		1							_
		··············															_
						,						_					_
<u> </u>									,								
Relinguished by:	Employee#	Date	Time	Recei	ed hu		mployee	432 37	l	i Geografi	i Time	Sample Re	eceiving (Internal	Use On	ly)	. <u> </u>	-
29 Brown	35594	6/30/23	1636	A	<u>~</u>		GEL		/30/z		lo34	TEMP (%	<del> </del>	Initial	<b>:</b>	<del></del>	
Relinguished by:	¿Employee#	Date	Time	Recei	ed by:	236 32267	nployee	5962 RV	Date		. Time	Correct p					
Relinquished by:	しEL Employee#	6.30.23	1235 Time	Dara.	ed by:		nployee		(3C		(235 Time	rreservat	146 TOI#:				
		1640,254,3564			ANNE HELE		ithioyee		e i k		i inie	Date/Time	e/Init for preserv	ative:			
□ Ag □ G G G G G G G G G G G G G G G G G G	E DISC DISC DISC E DITI DITI O DIV A DIZA	MEST STATE OF THE	III () () () () () () () () () () () () ()	MI:  □ BTEX □ Naphtha □ THM/H. □ VOC □ Off & G □ E Colf □ Total Co □ pH □ Dissolve □ Rad 226 □ Rad 228	lene ÅÅ ease liform d As d Fe		MEHIM (C) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	id inee idele oo idele oo ide (6 35 oorstii ficae	ll Aile 3021		GOA  OHITMATE  1.1/0 VOICE  1.3/1 VOICE  1.5/1 IUC List List Wall	Tabuyani LOL We Carbon Francial Anelysis Saste Sastes Sastes Sastes UF DLS oil or Greek As	医乳球 医动物 医动物 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	最级的 1960年 1970年 1970年 1970年 1970年 1970年 1970年			

Cli	ent: SCOP			SAMPLE RECEIPT & REVIEW FORM  SDG/AR/COC/Work Order: U 277 (2)
Re	ceived By: QG			Date Received: 6(30 /23
	Carrier and Tracking Number			FedEx Express FedEx Ground UPS Field Services Courier Other
Sus	spected Hazard Information	Yes	No	*If Ney Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)5	Shipped as a DOT Hazardous?		c	Hazard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B)	Did the client designate the samples are to be		V	COC notation or radioactive stickers on containers equal client designation.
C)	Did the RSO classify the samples as coactive?		V	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?		1	COC notation or hazard labels on containers equal client designation.
E)	Did the RSO identify possible hazards?			If D or E is yes, select Hazards below.  PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	Z/	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	v		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	V		Cipele Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*	V	4	Preservation Method: Wet Ico Ice Packs Dry ice None Other:  *all temperatures asserverorded in Celsius  TEMP:
4	Daily check performed and passed on IR temperature gun?	1		Temperature Device Serial #: IR4-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	1		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	1		Sample ID's and Containers Affected:  If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA Sample ID's and containers affected:
8	Samples received within holding time?	V		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	-		ID's and containers affected:
10	Date & time on COC match date & time on bottles?	V		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?		•	Mussing AF68 715 and AF68722
12	Are sample containers identifiable as GEL provided by use of GEL labels?			
13	COC form is properly signed in relinquished/received sections?	/		Circle Applicable: Not relinquished Other (describe)
Cor	nments (Use Continuation Form if needed):			

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 27 July 2023

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	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC002 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





2040 Savage Road | Charleston, SC 29407 843 556 8171

gel.com

October 11, 2023

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

Re: ABS Lab Analytical Work Order: 640498

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 29, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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,

Jordan Melton for Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 640498 GEL Work Order: 640498

#### 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 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 Dordon Melton

Page 2 of 13 SDG: 640498

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

# Certificate of Analysis

Report Date: October 11, 2023

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: AF79064 Sample ID: 640498001

Matrix: GW

Collect Date: 26-SEP-23 12:13
Receive Date: 29-SEP-23
Collector: Client

 Project:
 SOOP00119

 Client ID:
 SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Ion Chromatograph	ıy								
EPA 300.0 Chlorid	e, Liquid "As Rec	eived"							
Chloride		211	3.35	10.0	mg/L		50 LXA2 10/10/23	0438 2505683	1
Sulfate		36.0	6.65	20.0	mg/L		50		
The following Ana	alytical Methods w	vere performed:							
Method	Description				F	Analys	st Comments		
1	EPA 300.0								

#### **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

Page 3 of 13 SDG: 640498

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

# Certificate of Analysis

Project:

Client ID:

Report Date: October 11, 2023

SOOP00119

SOOP001

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: AF79065 Sample ID: 640498002

Matrix: GW

Collect Date: 27-SEP-23 10:49
Receive Date: 29-SEP-23
Collector: Client

DLRLUnits PF Parameter Qualifier Result DF Analyst Date Time Batch Method Ion Chromatography EPA 300.0 Chloride, Liquid "As Received" Chloride 342 6.70 20.0 mg/L 100 LXA2 10/10/23 0610 2505683 mg/L Sulfate 13.3 40.0 The following Analytical Methods were performed: Method Description **Analyst Comments** 

# 1 EPA 300.0

#### **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

Page 4 of 13 SDG: 640498

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

# Certificate of Analysis

Report Date: October 11, 2023

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: AF79066 Sample ID: 640498003

Matrix: GW

Collect Date: 27-SEP-23 10:54
Receive Date: 29-SEP-23
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Ion Chromatograph	y								
EPA 300.0 Chloride	e, Liquid "As Rec	ceived"							
Chloride		345	6.70	20.0	mg/L		100 LXA2 10/10/23	0641 2505683	1
Sulfate		96.4	13.3	40.0	mg/L		100		
The following Ana	lytical Methods v	vere performed:							
Method	Description	Į.			F	Analys	st Comments		
1	EPA 300.0								

#### **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

Page 5 of 13 SDG: 640498

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

# Certificate of Analysis

Project:

Client ID:

Report Date: October 11, 2023

SOOP00119

SOOP001

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: AF79067 Sample ID: 640498004

Matrix: GW

Collect Date: 27-SEP-23 13:19
Receive Date: 29-SEP-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Ion Chromatograp	ohy								
EPA 300.0 Chlori	de, Liquid "As Rec	eived"							
Chloride		939	13.4	40.0	mg/L		200 LXA2 10/10/23	0712 2505683	1
Sulfate		699	26.6	80.0	mg/L		200		
The following Ar	nalytical Methods v	vere performed:							
Method	Description				1	Analy	st Comments		
1	EPA 300.0								

#### **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

Page 6 of 13 SDG: 640498

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

**QC** Summary

Report Date: October 11, 2023

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

**Contact:** Ms. Jeanette Gilmetti

Workorder: 640498

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Ion Chromatography Batch 2505683								
QC1205541104 640498001 DUP Chloride		211	212	mg/L	0.534		(0%-20%) LXA2	10/10/23 05:09
Sulfate		36.0	38.8	mg/L	7.48 ^		(+/-20.0)	
QC1205541102 LCS Chloride	5.00		4.59	mg/L		91.9	(90%-110%)	10/09/23 16:48
Sulfate	10.0		9.45	mg/L		94.5	(90%-110%)	
QC1205541101 MB Chloride		U	ND	mg/L				10/09/23 16:17
Sulfate		J	0.183	mg/L				
QC1205541106 640498001 PS Chloride	5.00	4.22	9.76	mg/L		111*	(90%-110%)	10/10/23 05:40
Sulfate	10.0	0.721	10.4	mg/L		97.1	(90%-110%)	

#### **Notes:**

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected

Page 7 of 13 SDG: 640498

Page 1 of 2

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

# QC Summary

Workorder: 640498

Parmname

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

- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- N1 See case narrative
- 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.
- B The target analyte was detected in the associated blank.
- 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
- J See case narrative for an explanation

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.

Page 8 of 13 SDG: 640498

# General Chemistry Technical Case Narrative Santee Cooper SDG #: 640498

**Product: Ion Chromatography Analytical Method:** EPA 300.0

**Analytical Procedure:** GL-GC-E-086 REV# 33

**Analytical Batch:** 2505683

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

<b>GEL Sample ID#</b>	Client Sample Identification
640498001	AF79064
640498002	AF79065
640498003	AF79066
640498004	AF79067
1205541101	Method Blank (MB)
1205541102	Laboratory Control Sample (LCS)
1205541104	640498001(AF79064) Sample Duplicate (DUP)
1205541106	640498001(AF79064) Post Spike (PS)

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**

#### Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205541106 (AF79064PS)	111* (90%-110%)

#### **Technical Information**

#### **Sample Dilutions**

The following samples 1205541104 (AF79064DUP), 1205541106 (AF79064PS), 640498001 (AF79064), 640498002 (AF79065), 640498003 (AF79066) and 640498004 (AF79067) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205541104 (AF79064DUP), 1205541106 (AF79064PS), 640498001 (AF79064), 640498002 (AF79065), 640498003 (AF79066) and 640498004 (AF79067) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Page 9 of 13 SDG: 640498

A 14 -		640	)498	
Analyte	001	002	003	004
Chloride	50X	100X	100X	200X
Sulfate	50X	100X	100X	200X

### **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.

Page 10 of 13 SDG: 640498

# **Chain of Custody**



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

	VILIA	@santee	ecooper.com		J	/	<b>y</b> .	125°	f15			Unit #: 9.	J 36	Rerun requ	No		agged Qo
The Control of the Co	orks ID # nal use	Sample Locati Description	ion/	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)	Re    Mi	Cor ethod # porting linesc. sample y other no	e info	RAD 226/228	Ty	
A=7	9064	WAP-27		9/26/2	3 1213	20M 858	3	P	G	GW	2/	100000000000000000000000000000000000000	100	tim voje so se zo zajek kiegy	2	X	1
1	65	WAP -28				830	1	1	-	1	1					1,	,
	62	WPH 28		9/27/2	3 1049		-		+	+	-				-	1	
	66	WAP-28	DUP		1054												
	67	WAP-29		1	1319	1		1	1	1	1				1	1	-
Relin	quished by:	Employee#  36751 Employee#  Employee#	Date 9/24/23 Date 9-24-3	Time Time	Receiv Receiv Receiv	ed by:	En	nployee #	9/	Date   29 23  Date		Time Time Time	TEM Corre Prese	le Receiving (Interr P (°C): ect pH: Yes rvative Lot#:	_ Initia	nly)	
☐ Ag ☐ Al ☐ As ☐ Ba ☐ Be ☐ Ca ☐ Cd ☐ Co	Cu		Nutrol   Too   Doo   Doo   Te/   Doo   Te/   Doo   Te/   Doo   Doo   Te/   Doo   D	C FPO4 3-N	MIS  BTEX  Naphthal THM/HA VOC Oil & Gr E. Coli Total Col pH Dissolved Rad 226 Rad 228 PCB	ene AA ease iform		Wallboa Gypsi below AlM TOC Tota Solui	um(all ) I metals ble Met y (CaSt oisture tes	als O4)	Oti	Coal Ultimate  % Moist Ash Sulfur BTUs Volatile CHN her Tests: IRF Scan IGI ineness articulate Ma	ure Matter	Flyash Ammonia LOI McCarbon Mineral Analysis Sieve Moisture  NPDES Oil & Grease As TSS	D Use	Moist color cidity interestrict This solve de Oil lashpoi letals in As.Cd. (Ig)	Qual. ture Strength ed Gases

			SAMPLE RECEIPT & REVIEW FORM SDG/AR/COC/Work Order:
Received By: QG			Date Received: 9/29/23
Carrier and Tracking Number			FedEx Express FedEx Ground UPS Field Services Courier Other
uspected Hazard Information	Yes	eN.	*If Net Counts > 100 years of years
	+	-	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
Shipped as a DOT Hazardous?		1	If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
Did the client designate the samples are to be served as radioactive?		1	COC notation or radioactive stickers on containers equal client designation.
Did the RSO classify the samples as lioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts):  Classified as: Rad 1 Rad 2 Rad 3  CPN+/mR/Hr
Did the client designate samples are hazardous?			Rau 3
		/1	COC ficiation or hazard labels on containers equal client designation.  If D or E is yes, select Hazards below.
Did the RSO identify possible hazards?		1	PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria Shipping containers received intact and	Yes	NA	Z Comments/Qualifiers (Required for Non-Conforming It
sealed?	1	1	Circle Applicable: Seals broken Durnaged container Leaking container Other (describe)
Chain of custody documents included with shipment?			Circle Applicable: Client contacted and provided COC COC created upon receipt
Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	1		Preservation Method: Wet Lee Ice Packs Dry ice None Other:
Daily check performed and passed on IR temperature gun?	/		Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
Sample containers intact and sealed?	1		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
Samples requiring chemical preservation at proper pH?	1		Sample ID's and Containers Affected:
			If Preservation added, Lot#:  If Yes are Encores or Soil Kits present for solids? Yes No NA (If yes take to VOA Feet
Do any samples require Volatile	1		Dy riquid VOA vials contain acid programmi in the
Analysis?	17	/	Are liquid VOA vials free of headspace? YesNoNA(II'unknown, select No)  Sample ID's and containers affected:
Samples received with the re-		1	ID's and tests affected:
Samples received within holding time?		1	
Sample ID's on COC match ID's on pottles?		/	ID's and containers affected:
Date & time on COC match date & time	1	1	Circle Applicable: No dates on contained to
n bottles?	1	1	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
lumber of containers received match umber indicated on COC?	P		Circle Applicable: No container count on COC Other (describe)
re sample containers identifiable as EL provided by use of GEL labels?		1	
OC form is properly signed in			Circle Applicable: Not relinquished Other (days)
linquished/received sections?	1		Circle Applicable: Not relinquished Other (describe)

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 11 October 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-04
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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
** asimigron	2700



# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 7/14/2023 8:56:55 AM Revision 1

## **JOB DESCRIPTION**

Santee Cooper / 125915

### **JOB NUMBER**

680-237317-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **Eurofins Savannah**

### **Job Notes**

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

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### **Authorization**

Generated 7/14/2023 8:56:55 AM Revision 1

Authorized for release by Heather Trotter, Project Manager Heather.Trotter@et.eurofinsus.com Designee for Jerry Lanier, Project Manager I Jerry.Lanier@et.eurofinsus.com (912)250-0281

Eurofins Savannah is a laboratory within Eurofins Environment Testing Southeast, LLC, a company within Eurofins Environment Testing Group of Companies
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#### **Case Narrative**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

Job ID: 680-237317-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-237317-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 7/11/2023. The report (revision 1) is being revised due to: Client needs the Mercury associated with failed QC to be ran again for verification..

#### Receipt

The samples were received on 7/6/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.2° C.

#### Metals

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

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# **Sample Summary**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237317-1	AF68719	Water	06/29/23 10:48	07/06/23 09:40
680-237317-2	AF68720	Water	06/29/23 11:40	07/06/23 09:40
680-237317-3	AF68721	Water	06/29/23 11:45	07/06/23 09:40
680-237317-4	AF68713	Water	06/29/23 13:51	07/06/23 09:40
680-237317-5	AF68714	Water	06/28/23 14:09	07/06/23 09:40
680-237317-6	AF68712	Water	06/28/23 15:20	07/06/23 09:40
680-237317-7	AF68748	Water	06/27/23 10:15	07/06/23 09:40
680-237317-8	AF68711	Water	06/27/23 11:26	07/06/23 09:40
680-237317-9	AF68717	Water	06/27/23 13:57	07/06/23 09:40

Job ID: 680-237317-1

### **Method Summary**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

 Method
 Method Description
 Protocol
 Laboratory

 7470A
 Mercury (CVAA)
 SW846
 EET SAV

 7470A
 Preparation, Mercury
 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

Job ID: 680-237317-1

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### **Definitions/Glossary**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

**Practical Quantitation Limit** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Job ID: 680-237317-1

### **Qualifiers**

NC

ND

NEG

POS

PQL

QC

RL

RER

**RPD** 

TEF TEQ

TNTC

**PRES** 

Metals	
Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

## **Detection Summary**

Project/Site: Santee Cooper / 125915	332 .3. 000 201011				
Client Sample ID: AF68719	Lab Sample ID: 680-237317-1				
No Detections.					
Client Sample ID: AF68720	Lab Sample ID: 680-237317-2				
No Detections.					
Client Sample ID: AF68721	Lab Sample ID: 680-237317-3				
No Detections.					
Client Sample ID: AF68713	Lab Sample ID: 680-237317-4				
No Detections.					
Client Sample ID: AF68714	Lab Sample ID: 680-237317-5				
No Detections.					
Client Sample ID: AF68712	Lab Sample ID: 680-237317-6				
No Detections.					
Client Sample ID: AF68748	Lab Sample ID: 680-237317-7				
No Detections.					
Client Sample ID: AF68711	Lab Sample ID: 680-237317-8				
No Detections.					
Client Sample ID: AF68717	Lab Sample ID: 680-237317-9				

No Detections.

Client: South Carolina Public Service Authority

This Detection Summary does not include radiochemical test results.

Job ID: 680-237317-1

Client: South Carolina Public Service Authority

Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Client Sample ID: AF68719 Lab Sample ID: 680-237317-1

Date Collected: 06/29/23 10:48
Date Received: 07/06/23 09:40

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/10/23 12:38 07/11/23 14:29 1

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Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Client Sample ID: AF68720 Lab Sample ID: 680-237317-2 Date Collected: 06/29/23 11:40

Matrix: Water

Job ID: 680-237317-1

Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercu	ıry (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1 F2	0.200		ug/L		07/10/23 12:38	07/11/23 14:30	1
Mercury	0.200	U	0.200		ug/L		07/13/23 09:39	07/13/23 13:38	1

Client: South Carolina Public Service Authority Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Lab Sample ID: 680-237317-3 Client Sample ID: AF68721

Date Collected: 06/29/23 11:45

Matrix: Water Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.200 U 07/10/23 12:38 07/11/23 14:35 Mercury 0.200

ug/L

Client: South Carolina Public Service Authority

Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Client Sample ID: AF68713 Lab Sample ID: 680-237317-4

Date Collected: 06/29/23 13:51

Matrix: Water

Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/10/23 12:38 07/11/23 14:36

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Client: South Carolina Public Service Authority Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Lab Sample ID: 680-237317-5 **Client Sample ID: AF68714** 

Date Collected: 06/28/23 14:09 Matrix: Water

Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury 0.200 U 0.200

ug/L

Client: South Carolina Public Service Authority Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Lab Sample ID: 680-237317-6 **Client Sample ID: AF68712** 

Date Collected: 06/28/23 15:20 Matrix: Water

Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 07/10/23 12:38 07/11/23 14:39 Mercury

0.200 U 0.200 ug/L

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Client Sample ID: AF68748 Lab Sample ID: 680-237317-7

Matrix: Water

Job ID: 680-237317-1

Date Collected: 06/27/23 10:15 Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/10/23 12:38 07/11/23 13:19

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Client: South Carolina Public Service Authority Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Lab Sample ID: 680-237317-8 **Client Sample ID: AF68711** 

Date Collected: 06/27/23 11:26 Matrix: Water

Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 07/10/23 12:38 07/11/23 13:20 Mercury 0.200 U 0.200

ug/L

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Client: South Carolina Public Service Authority

Job ID: 680-237317-1

Project/Site: Santee Cooper / 125915

Client Sample ID: AF68717 Lab Sample ID: 680-237317-9

Date Collected: 06/27/23 13:57

Matrix: Water

Date Received: 07/06/23 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/10/23 12:38 07/11/23 13:22 1

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Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-787520/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 787762

Prep Type: Total/NA

**Prep Batch: 787520** 

MB MB

MR MR

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** Mercury 0.200 07/10/23 12:38 07/11/23 14:26 0.200 U ug/L

Lab Sample ID: LCS 680-787520/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 787762

Prep Type: Total/NA

**Prep Batch: 787520** 

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

Limits **Analyte** 2.50 80 - 120 Mercury 2.357 ug/L 94

Lab Sample ID: 680-237317-2 MS Client Sample ID: AF68720 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 787762

Prep Batch: 787520 Sample Sample Spike MS MS %Rec

ug/L

Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec Mercury 0.200 U F1 F2 1.00 0.2587 F1 26 80 - 120

Lab Sample ID: 680-237317-2 MSD Client Sample ID: AF68720

Matrix: Water

Prep Type: Total/NA Analysis Batch: 787762 Prep Batch: 787520

%Rec **RPD** 

MSD MSD Spike Sample Sample Added **Analyte** Result Qualifier Result Qualifier Unit %Rec Limits **RPD** Limit 0.200 U F1 F2 Mercury 1.00 0.200 U F1 F2 80 - 120 40 ug/L

Lab Sample ID: MB 680-788105/1-A

Matrix: Water

Analysis Batch: 788196

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 788105** 

RL Analyte Result Qualifier **MDL** Unit **Prepared** Analyzed Dil Fac

0.200 U 0.200 07/13/23 09:39 07/13/23 13:24 Mercury ug/L

Lab Sample ID: LCS 680-788105/2-A

Matrix: Water

Analysis Batch: 788196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 788105** 

%Rec

Spike LCS LCS Added Result Qualifier Limits Analyte Unit D %Rec 2.50 80 - 120 Mercury 2.716 ug/L 109

**Eurofins Savannah** 

## **QC Association Summary**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

### Job ID: 680-237317-1

### Metals

**Prep Batch: 787520** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-1	AF68719	Total/NA	Water	7470A	
680-237317-2	AF68720	Total/NA	Water	7470A	
680-237317-3	AF68721	Total/NA	Water	7470A	
680-237317-4	AF68713	Total/NA	Water	7470A	
680-237317-5	AF68714	Total/NA	Water	7470A	
680-237317-6	AF68712	Total/NA	Water	7470A	
680-237317-7	AF68748	Total/NA	Water	7470A	
680-237317-8	AF68711	Total/NA	Water	7470A	
680-237317-9	AF68717	Total/NA	Water	7470A	
MB 680-787520/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-787520/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237317-2 MS	AF68720	Total/NA	Water	7470A	
680-237317-2 MSD	AF68720	Total/NA	Water	7470A	

#### Analysis Batch: 787762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-1	AF68719	Total/NA	Water	7470A	787520
680-237317-2	AF68720	Total/NA	Water	7470A	787520
680-237317-3	AF68721	Total/NA	Water	7470A	787520
680-237317-4	AF68713	Total/NA	Water	7470A	787520
680-237317-5	AF68714	Total/NA	Water	7470A	787520
680-237317-6	AF68712	Total/NA	Water	7470A	787520
680-237317-7	AF68748	Total/NA	Water	7470A	787520
680-237317-8	AF68711	Total/NA	Water	7470A	787520
680-237317-9	AF68717	Total/NA	Water	7470A	787520
MB 680-787520/1-A	Method Blank	Total/NA	Water	7470A	787520
LCS 680-787520/2-A	Lab Control Sample	Total/NA	Water	7470A	787520
680-237317-2 MS	AF68720	Total/NA	Water	7470A	787520
680-237317-2 MSD	AF68720	Total/NA	Water	7470A	787520

### **Prep Batch: 788105**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-2	AF68720	Total/NA	Water	7470A	
MB 680-788105/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-788105/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 788196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237317-2	AF68720	Total/NA	Water	7470A	788105
MB 680-788105/1-A	Method Blank	Total/NA	Water	7470A	788105
LCS 680-788105/2-A	Lab Control Sample	Total/NA	Water	7470A	788105

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Job ID: 680-237317-1

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Client Sample ID: AF68719

Date Collected: 06/29/23 10:48 Date Received: 07/06/23 09:40

Lab Sample ID: 680-237317-1

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:29

Lab Sample ID: 680-237317-2 Client Sample ID: AF68720

Matrix: Water

Date Collected: 06/29/23 11:40 Date Received: 07/06/23 09:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:30
Total/NA	Prep	7470A			788105	DW	EET SAV	07/13/23 09:39
Total/NA	Analysis	7470A		1	788196	BCB	EET SAV	07/13/23 13:38

Client Sample ID: AF68721 Lab Sample ID: 680-237317-3

Matrix: Water

Date Collected: 06/29/23 11:45 Date Received: 07/06/23 09:40

Batch Dilution Batch Prepared Method **Prep Type** Type Run Factor Number Analyst or Analyzed Lab Total/NA Prep 7470A 787520 DW **EET SAV** 07/10/23 12:38 Total/NA Analysis 7470A 787762 BJB **EET SAV** 07/11/23 14:35 1

Client Sample ID: AF68713 Lab Sample ID: 680-237317-4

Date Collected: 06/29/23 13:51 Matrix: Water

Date Received: 07/06/23 09:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:36

Client Sample ID: AF68714 Lab Sample ID: 680-237317-5

Date Collected: 06/28/23 14:09 Matrix: Water Date Received: 07/06/23 09:40

Batch **Batch Dilution Batch Prepared** Number Analyst **Prep Type** Method Factor or Analyzed Type Run Lab 07/10/23 12:38 Total/NA Prep 7470A 787520 DW **EET SAV** Total/NA 7470A 787762 BJB **EET SAV** 07/11/23 14:38 Analysis 1

Client Sample ID: AF68712 Lab Sample ID: 680-237317-6

Date Collected: 06/28/23 15:20 Matrix: Water

Date Received: 07/06/23 09:40

		Batch	Batch		Dilution	Batch			Prepared
Pre	р Туре	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Tota	al/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Tota	al/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 14:39

**Eurofins Savannah** 

### **Lab Chronicle**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

**Client Sample ID: AF68748** Lab Sample ID: 680-237317-7

Date Collected: 06/27/23 10:15 Matrix: Water

Date Received: 07/06/23 09:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 13:19

Lab Sample ID: 680-237317-8 **Client Sample ID: AF68711** Matrix: Water

Date Collected: 06/27/23 11:26

Date Received: 07/06/23 09:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 13:20

**Client Sample ID: AF68717** Lab Sample ID: 680-237317-9

Date Collected: 06/27/23 13:57 Matrix: Water

Date Received: 07/06/23 09:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			787520	DW	EET SAV	07/10/23 12:38
Total/NA	Analysis	7470A		1	787762	BJB	EET SAV	07/11/23 13:22

Laboratory References:

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

**Eurofins Savannah** 

Job ID: 680-237317-1

### Chain of Custody



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

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**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA JM02.08. GØ1.3 / 36500 Yes 125915 No @santeecooper.com **Analysis Group** Labworks ID# Comments Sample Location/ Preservative (see below) **Collection Date** Collection Time Matrix(see below Description (Internal use Method# Sample Collector Bottle type: (Glas G/Plastic-P) fotal # of contail only) Reporting limit 9 Grab (G) or Composite ( Misc. sample info Any other notes 五 WJK ١ 2 P Х Ğ GW 6/29/23 WAP-9 1048 7470 RL= 0.2 4g/L AF68719 ML AF68720 WAP-10 1140 AF68721 1145 WAP-10 DUP 1351 AF68713 WAP-3 6/28/23 WAP-4 1409 AF68714 WAP-2 AF68712 1520 6/27/23 AF 68748 WBW-I 1015 WAP-1 AF-68711 1126 WAP-7 1357 AF68717 Sample Receiving (Internal Use Only) Relinquished by: Date Time Received by: Employee # Date Time Employee# TEMP (°C): \_\_\_\_ Initial: Mho 122 0940 Mowan 7 35594 7/5/23 1400 Correct pH: Yes Relinguished by: Employee# Date Time Received by: Employee # Date Time Preservative Lot#: Relinquished by: Employee# Date Received by: Employee# Date Time Time Date/Time/Init for preservative: ☐ METALS (all) MISC. **Nutrients** Gypsum Coal Flyash □ Ag □ Cu □ Sb □ TOC □ BTEX Wallboard ☐ Ultimate Frans. Cil Qual. □ Ammonia □ Fe □ Se Maistare Color □ Naphthalene D DOC Gypsum(all □ % Moisture below) AIM ☐ As  $\square K$ ☐ Sn ☐ THM/HAA □ TP/TPO4 □ Ash □ % Carbon □ VOC □ NH3-N □ Sulfur ☐ Mineral □В 🛛 Li □ Sr ☐ Oil & Grease O TOC Analysis  $\Box \mathbf{F}$ ☐ BTUs □ E. Coli □ Ba 🛮 Ti □ Total metals □ Cl ☐ Volatile Matter ☐ Sieve □ Total Coliform □ Soluble Metals □Ве □ Mn □ NO2 □ CHN ☐ % Moisture Used Oil ☐ Purity (CaSO4) ☐ % Moisture □pH Flashpoint
Metals in oil
(As Cd.Cr.Ni,Pb □ Br ☐ Dissolved As Other Tests: □ Ca □ Мо DV. ☐ Dissolved Fe ☐ XRF Scan - () Sulfites FI NO3 NEDES □ Cd □ Na □ Rad 226 O HGI □ SO4 □ pH □ Oil & Grease ☐ Rad 228 ☐ Chlorides ☐ Fineness □ Ni □Со ☐ Hg □ PCB ☐ Particle Size ☐ Particulate Matter ☐ TSS COFER □ CrVI □ Cr □ Pb



### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-237317-1

Login Number: 237317 List Source: Eurofins Savannah

List Number: 1

**Creator: Munro, Caroline** 

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

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority

Project/Site: Santee Cooper / 125915

Job ID: 680-237317-1

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
South Carolina	State	98001	06-30-23 *

 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 



# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 8/9/2023 8:32:53 AM

## **JOB DESCRIPTION**

125915/JM02.08.G01.3/36500

### **JOB NUMBER**

680-238532-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **Eurofins Savannah**

### **Job Notes**

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

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

### **Authorization**

Generated 8/9/2023 8:32:53 AM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Job ID: 680-238532-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-238532-1

#### Receipt

The samples were received on 8/2/2023 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

#### Metals

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

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## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238532-1	AF68719	Water	06/29/23 10:48	08/02/23 10:45
680-238532-2	AF68720	Water	06/29/23 11:40	08/02/23 10:45
680-238532-3	AF68721	Water	06/29/23 11:45	08/02/23 10:45
680-238532-4	AF68713	Water	06/29/23 13:51	08/02/23 10:45
680-238532-5	AF68714	Water	06/28/23 14:09	08/02/23 10:45
680-238532-6	AF68712	Water	06/28/23 15:20	08/02/23 10:45

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### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
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

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### **Definitions/Glossary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

#### **Qualifiers**

Metals

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

NEG

POS

PQL

PRES

QC

RLRPD

TEF

TEQ

TNTC

RER

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

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)

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF68719

Job ID: 680-238532-1

Lab Sample ID: 680-238532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	232000		500		ug/L	1	_	6010D	Total
									Recoverable
Aluminum	547		100		ug/L	1		6020B	Total
									Recoverable
Arsenic	38.1	;	3.00		ug/L	1		6020B	Total
									Recoverable
Barium	99.1	!	5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.660	0.	.500		ug/L	1		6020B	Total
									Recoverable
Iron	28500		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	30200		250		ug/L	1		6020B	Total
_									Recoverable
Client Sample ID: AF68720						Lak	S	ample ID:	680-238532-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	613000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	270		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	23800		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	82200		250		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF68721	Lab Sample ID: 680-238532-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	642000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	304		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	25200		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	97700		250		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF68713 Lab Sample ID: 680-238532-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	266000		500		ug/L	1	_	6010D	Total
									Recoverable
Barium	200		5.00		ug/L	1		6020B	Total
									Recoverable
Iron	18600		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	13800		250		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF68714 Lab Sample ID: 680-238532-5

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	50800	500		ug/L	1		6010D	 Total
								Recoverable
Barium	36.5	5.00		ug/L	1		6020B	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

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8/9/2023

### **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Client Sample ID: AF68714 (Continued)	Lab Sample ID: 680-238532-5

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac	D	Method	Prep Type
Iron	1200	100	ug/L	1	_	6020B	Total
							Recoverable
Magnesium	4000	250	ug/L	1		6020B	Total
							Recoverable
Magnesium	4000	250	ug/L	1		6020B	Total

#### Client Sample ID: AF68712 Lab Sample ID: 680-238532-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	212000		500		ug/L	1	_	6010D	Total
									Recoverable
Aluminum	103		100		ug/L	1		6020B	Total
									Recoverable
Arsenic	45.7		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	179		5.00		ug/L	1		6020B	Total
									Recoverable
Beryllium	0.570		0.500		ug/L	1		6020B	Total
									Recoverable
Cobalt	4.70		0.500		ug/L	1		6020B	Total
									Recoverable
Iron	17800		100		ug/L	1		6020B	Total
									Recoverable
Magnesium	26900		250		ug/L	1		6020B	Total
									Recoverable

8/9/2023

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238532-1

Matrix: Water

Job ID: 680-238532-1

Client Sample ID: AF68719 Date Collected: 06/29/23 10:48

Date Received: 08/02/23 10:45

Method: SW846 6010D	- Metals (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	232000		500		ug/L		08/03/23 06:38	08/04/23 17:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	547		100		ug/L		08/03/23 06:38	08/08/23 15:58	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Arsenic	38.1		3.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Barium	99.1		5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:58	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:58	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Cobalt	0.660		0.500		ug/L		08/03/23 06:38	08/08/23 15:58	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Iron	28500		100		ug/L		08/03/23 06:38	08/08/23 15:58	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:58	1
Magnesium	30200		250		ug/L		08/03/23 06:38	08/08/23 15:58	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:58	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:58	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF68720 Lab Sample ID: 680-238532-2

Matrix: Water

Job ID: 680-238532-1

Date Collected: 06/29/23 11:40 Date Received: 08/02/23 10:45

Method: SW846 6010D	- Metals (ICP) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	613000		500		ug/L		08/03/23 06:38	08/04/23 17:23	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:23	1
_ Method: SW846 6020B	- Metals (ICP/MS) - Total	Recoverable	<b>)</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ua/L		08/03/23 06:38	08/08/23 15:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 15:17	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Barium	270		5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:17	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:17	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:17	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Iron	23800		100		ug/L		08/03/23 06:38	08/08/23 15:17	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:17	1
Magnesium	82200		250		ug/L		08/03/23 06:38	08/08/23 15:17	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:17	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:17	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238532-3

Matrix: Water

Job ID: 680-238532-1

Client Sample ID: AF68721

Date Collected: 06/29/23 11:45 Date Received: 08/02/23 10:45

M	ethod: SW846 6010D - Metals (ICP) - To	otal Re	coverable							
A	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C	alcium	642000		500		ug/L		08/03/23 05:51	08/03/23 15:15	1
S	elenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:15	1

	20.0	O	20.0		ug/L		00/00/20 00.01	00/00/20 10.10	
_ Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:30	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Barium	304		5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:30	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:30	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:30	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Iron	25200		100		ug/L		08/03/23 05:51	08/07/23 16:30	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:30	1
Magnesium	97700		250		ug/L		08/03/23 05:51	08/07/23 16:30	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:30	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:30	1
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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Client Sample ID: AF68713 Lab Sample ID: 680-238532-4

Date Collected: 06/29/23 13:51 Matrix: Water

Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICI	P) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	266000		500		ug/L		08/03/23 05:51	08/03/23 15:13	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:13	1
Method: SW846 6020B - Metals (ICF	P/MS) - Tota	Recoverable							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:26	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Barium	200		5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:26	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:26	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:26	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Iron	18600		100		ug/L		08/03/23 05:51	08/07/23 16:26	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:26	1
Magnesium	13800		250		ug/L		08/03/23 05:51	08/07/23 16:26	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:26	1
Zinc	20.0	U	20.0		ug/L		08/03/23 05:51	08/07/23 16:26	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-238532-5

Matrix: Water

Job ID: 680-238532-1

Client Sample ID: AF68714

Date Collected: 06/28/23 14:09 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICF	P) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	50800		500		ug/L		08/03/23 05:51	08/03/23 15:11	1
Selenium _	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 15:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		08/03/23 05:51	08/07/23 16:22	1
Antimony	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Arsenic	3.00	U	3.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Barium	36.5		5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Beryllium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:22	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:22	1
Chromium	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Cobalt	0.500	U	0.500		ug/L		08/03/23 05:51	08/07/23 16:22	1
Copper	5.00	U	5.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Iron	1200		100		ug/L		08/03/23 05:51	08/07/23 16:22	1
Lead	2.50	U	2.50		ug/L		08/03/23 05:51	08/07/23 16:22	1
Magnesium	4000		250		ug/L		08/03/23 05:51	08/07/23 16:22	1
Thallium	1.00	U	1.00		ug/L		08/03/23 05:51	08/07/23 16:22	1
Zinc	20.0	U	20.0		ua/l		08/03/23 05:51	08/07/23 16:22	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Lab Sample ID: 680-238532-6

Matrix: Water

Client Sample ID: AF68712

Date Collected: 06/28/23 15:20 Date Received: 08/02/23 10:45

Method: SW846 6010D - Metals (ICP	) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	212000		500		ug/L		08/03/23 06:38	08/04/23 17:20	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 17:20	1

_	20.0	ŭ	20.0		ug/ <u>_</u>		00/00/20 00:00	00/01/20 11:20	•
 Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	103		100		ug/L		08/03/23 06:38	08/08/23 15:13	1
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Arsenic	45.7		3.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Barium	179		5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Beryllium	0.570		0.500		ug/L		08/03/23 06:38	08/08/23 15:13	1
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 15:13	1
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Cobalt	4.70		0.500		ug/L		08/03/23 06:38	08/08/23 15:13	1
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Iron	17800		100		ug/L		08/03/23 06:38	08/08/23 15:13	1
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 15:13	1
Magnesium	26900		250		ug/L		08/03/23 06:38	08/08/23 15:13	1
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 15:13	1
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 15:13	1

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Job ID: 680-238532-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-791516/1-A

Matrix: Water

Analysis Batch: 791719

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791516** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		08/03/23 05:51	08/03/23 14:52	1
Selenium	20.0	U	20.0		ug/L		08/03/23 05:51	08/03/23 14:52	1

Lab Sample ID: LCS 680-791516/2-A

Matrix: Water

Analysis Batch: 791719

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

Prep Batch: 791516

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Calcium	5000	4950	ug/L		99	80 - 120	
Selenium	100	94.39	ug/L		94	80 - 120	

Lab Sample ID: MB 680-791519/1-A

Matrix: Water

Analysis Batch: 791897

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

**Prep Batch: 791519** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		08/03/23 06:38	08/04/23 16:50	1
Selenium	20.0	U	20.0		ug/L		08/03/23 06:38	08/04/23 16:50	1

Lab Sample ID: LCS 680-791519/2-A

Matrix: Water

Analysis Batch: 791897

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

**Prep Batch: 791519** 

	Spike	LCS LCS				%Rec	
Analyte	Added	Result Qualifie	er Unit	D	%Rec	Limits	
Calcium	5000	4801	ug/L		96	80 - 120	
Selenium	100	99.73	ug/L		100	80 - 120	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-791513/1-A

Matrix: Water

Analysis Batch: 792230

Client Sample ID: Method Blank **Prep Type: Total Recoverable** 

**Prep Batch: 791513** 

мв мв Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Aluminum 100 U 100 ug/L 08/03/23 05:51 08/07/23 15:57 08/03/23 05:51 Antimony 5.00 U 5.00 ug/L 08/07/23 15:57 Arsenic 3.00 U 3.00 ug/L 08/03/23 05:51 08/07/23 15:57 Barium 5.00 U 5.00 08/03/23 05:51 08/07/23 15:57 ug/L Beryllium 0.500 U 08/03/23 05:51 08/07/23 15:57 0.500 ug/L Cadmium 0.500 U 0.500 ug/L 08/03/23 05:51 08/07/23 15:57 Chromium 5.00 U 5.00 ug/L 08/03/23 05:51 08/07/23 15:57 Cobalt 0.500 U 0.500 08/07/23 15:57 ug/L 08/03/23 05:51 Copper 5.00 U 5.00 ug/L 08/03/23 05:51 08/07/23 15:57 Iron 100 U 100 ug/L 08/03/23 05:51 08/07/23 15:57 Lead 2.50 U 2.50 ug/L 08/03/23 05:51 08/07/23 15:57 250 U 250 ug/L 08/03/23 05:51 08/07/23 15:57 Magnesium Thallium 1.00 U 1.00 ug/L 08/03/23 05:51 08/07/23 15:57 Zinc 20.0 U 20.0 ug/L 08/03/23 05:51 08/07/23 15:57

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791513/2-A

Matrix: Water

Analysis Batch: 792230

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Pren Batch: 791513

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5050	5120		ug/L		101	80 - 120	
Antimony	50.0	50.97		ug/L		102	80 - 120	
Arsenic	100	106.4		ug/L		106	80 - 120	
Barium	100	102.9		ug/L		103	80 - 120	
Beryllium	50.0	49.97		ug/L		100	80 - 120	
Cadmium	50.0	50.92		ug/L		102	80 - 120	
Chromium	100	109.3		ug/L		109	80 - 120	
Cobalt	50.0	55.15		ug/L		110	80 - 120	
Copper	100	113.2		ug/L		113	80 - 120	
Iron	4990	5167		ug/L		104	80 - 120	
Lead	500	530.5		ug/L		106	80 - 120	
Magnesium	5000	4977		ug/L		100	80 - 120	
Thallium	50.0	50.20		ug/L		100	80 - 120	
Zinc	100	110.4		ug/L		110	80 - 120	

Lab Sample ID: MB 680-791518/1-A

Matrix: Water

Analysis Batch: 792490

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 791518** 

	МВ	МВ								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aluminum	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Antimony	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Arsenic	3.00	U	3.00		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Barium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Beryllium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Cadmium	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Chromium	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Cobalt	0.500	U	0.500		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Copper	5.00	U	5.00		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Iron	100	U	100		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Lead	2.50	U	2.50		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Magnesium	250	U	250		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Thallium	1.00	U	1.00		ug/L		08/03/23 06:38	08/08/23 14:41	1	
Zinc	20.0	U	20.0		ug/L		08/03/23 06:38	08/08/23 14:41	1	
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Lab Sample ID: LCS 680-791518/2-A

Matrix: Water

Analysis Batch: 792490

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

**Prep Batch: 791518** 

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	
Aluminum	5050	4652	uç	ı/L	92	80 - 120	
Antimony	50.0	46.52	uç	ı/L	93	80 - 120	
Arsenic	100	97.80	uç	ı/L	98	80 - 120	
Barium	100	95.86	uç	ı/L	96	80 - 120	
Beryllium	50.0	48.56	uç	ı/L	97	80 - 120	
Cadmium	50.0	46.20	uç	ı/L	92	80 - 120	
Chromium	100	100.4	uç	ı/L	100	80 - 120	
Cobalt	50.0	47.54	uç	ı/L	95	80 - 120	
Copper	100	102.8	ug	ı/L	103	80 - 120	

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# **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Lead

Zinc

Magnesium

Thallium

Job ID: 680-238532-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-791518/2-A					Client	Sample	ID: Lab C	ontrol Sample
Matrix: Water	Prep Type: Total Recoverab						al Recoverable	
Analysis Batch: 792490							Prep	Batch: 791518
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	4990	5052		ug/L		101	80 - 120	

485.1

4591

46.82

101.9

ug/L

ug/L

ug/L

ug/L

97

92

94

102

80 - 120

80 - 120

80 - 120

80 - 120

500

5000

50.0

100

8

9

11

13

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

Metals

Prep	Batch:	791513
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Lab Sample ID 680-238532-3	Client Sample ID  AF68721	Prep Type  Total Recoverable	_ Matrix Water	Method 3005A	Prep Batch
680-238532-4	AF68713	Total Recoverable	Water	3005A	
680-238532-5	AF68714	Total Recoverable	Water	3005A	
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791516

Lab Samula ID	Client Semale ID	Dran Trina	Matrix	Method	Dran Batab
Lab Sample ID 680-238532-3	Client Sample ID  AF68721	Prep Type Total Recoverable	Water	3005A	Prep Batch
000-230532-3	AF00721	Total Recoverable	vvater	3005A	
680-238532-4	AF68713	Total Recoverable	Water	3005A	
680-238532-5	AF68714	Total Recoverable	Water	3005A	
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### **Prep Batch: 791518**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	3005A	
680-238532-2	AF68720	Total Recoverable	Water	3005A	
680-238532-6	AF68712	Total Recoverable	Water	3005A	
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 791519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	3005A	
680-238532-2	AF68720	Total Recoverable	Water	3005A	
680-238532-6	AF68712	Total Recoverable	Water	3005A	
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 791719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-3	AF68721	Total Recoverable	Water	6010D	791516
680-238532-4	AF68713	Total Recoverable	Water	6010D	791516
680-238532-5	AF68714	Total Recoverable	Water	6010D	791516
MB 680-791516/1-A	Method Blank	Total Recoverable	Water	6010D	791516
LCS 680-791516/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791516

### Analysis Batch: 791897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	6010D	791519
680-238532-2	AF68720	Total Recoverable	Water	6010D	791519
680-238532-6	AF68712	Total Recoverable	Water	6010D	791519
MB 680-791519/1-A	Method Blank	Total Recoverable	Water	6010D	791519
LCS 680-791519/2-A	Lab Control Sample	Total Recoverable	Water	6010D	791519

### Analysis Batch: 792230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-3	AF68721	Total Recoverable	Water	6020B	791513
680-238532-4	AF68713	Total Recoverable	Water	6020B	791513
680-238532-5	AF68714	Total Recoverable	Water	6020B	791513

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## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-238532-1

### **Metals (Continued)**

Analysis Batch: 792230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-791513/1-A	Method Blank	Total Recoverable	Water	6020B	791513
LCS 680-791513/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791513

Analysis Batch: 792490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238532-1	AF68719	Total Recoverable	Water	6020B	791518
680-238532-2	AF68720	Total Recoverable	Water	6020B	791518
680-238532-6	AF68712	Total Recoverable	Water	6020B	791518
MB 680-791518/1-A	Method Blank	Total Recoverable	Water	6020B	791518
LCS 680-791518/2-	A Lab Control Sample	Total Recoverable	Water	6020B	791518

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Job ID: 680-238532-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Analysis

Client Sample ID: AF68719

Date Received: 08/02/23 10:45

Lab Sample ID: 680-238532-1 Date Collected: 06/29/23 10:48

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Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 3005A 08/03/23 06:38 Total Recoverable Prep 791519 RR EET SAV Total Recoverable Analysis 6010D 791897 BJB **EET SAV** 08/04/23 17:50 Total Recoverable Prep 3005A 791518 RR **EET SAV** 08/03/23 06:38 6020B 792490 BWR **EET SAV** 08/08/23 15:58

Client Sample ID: AF68720

Lab Sample ID: 680-238532-2

Matrix: Water

Date Collected: 06/29/23 11:40 Date Received: 08/02/23 10:45

Total Recoverable

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:23
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:17

Client Sample ID: AF68721

Lab Sample ID: 680-238532-3

Matrix: Water

Date Collected: 06/29/23 11:45 Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:15
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:30

Client Sample ID: AF68713

Lab Sample ID: 680-238532-4 Date Collected: 06/29/23 13:51

Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:13
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:26

Lab Sample ID: 680-238532-5 Client Sample ID: AF68714

Date Collected: 06/28/23 14:09 Matrix: Water

Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791516	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6010D		1	791719	BJB	EET SAV	08/03/23 15:11
Total Recoverable	Prep	3005A			791513	RR	EET SAV	08/03/23 05:51
Total Recoverable	Analysis	6020B		1	792230	BWR	EET SAV	08/07/23 16:22

### **Lab Chronicle**

Client: South Carolina Public Service Authority

Job ID: 680-238532-1

Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF68712 Lab Sample ID: 680-238532-6

Matrix: Water

Date Collected: 06/28/23 15:20 Date Received: 08/02/23 10:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			791519	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6010D		1	791897	BJB	EET SAV	08/04/23 17:20
Total Recoverable	Prep	3005A			791518	RR	EET SAV	08/03/23 06:38
Total Recoverable	Analysis	6020B		1	792490	BWR	EET SAV	08/08/23 15:13

### Laboratory References:

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

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# **Chain of Custody**

santee cooper

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

Customer Ema	il/Report F	Recipie	ent:	Da	te R	esults Ne	eded b	y:		Pr	oject/	Task/	Unit #:	Rer	un request	for any fl	agged QC
LCWILLIA	@sa	inteec	ooper.com		/	'			125°	115	JMC	2.68	3. GØ1.3	7 36200	Yes	No	
																Analy	sis Group
Labworks ID # (Internal use only)	Sample I Descripti		n/	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	Rej     Mis	Comments thod # porting limit se sample info y other notes		TOTAL METALS -SEE BELSW	
AF-68719	WA-P-	9		6/29	/23	1048	WKL	1	P	G	GW	2	6020			×	
AF68720	WA-P-	10				1140				1		1	- SEE	SHEEL FOR	₹(\$.	1	
AF68721	WAP-	ID DU	IP			1145											
AF68713	WAP-	3				1351							*PLEA	SE RETURN S	SAMPLES		
AF68714	WAP-	4		6/28	/23	1467							upon a	EMPLETTON.			
AF68712	WAP-	2		1		1520	1	1			1						
41.44													680-2	238532 Chain of C	ustody		
Relinquished by	: Emplo	oyee#	Date	Time		Receiv	ed by:	E	mployee	#	Date		Time	Sample Receiving TEMP (°C): 4			
Sproan	355	94	8/2/23	0756		9HOD	CQ	-	OURIE	R 8	/2/23		0756	[]	1,10		
Relinquished by	: Emplo	yee#	Date	Time		Receiv	ed by:	E	mployee	#	Date		Time	Correct pH:	Yes No		
ettorica	, cour	ves	8/2/23	L04L		7/1		15	M	8	.2-23	3	1245	Preservative L	ot#:		
Relinquished by	: Emplo	yee#	Date	Time		Receiv	ed by:	E	mployee	#	Date		Time				
														Date/Time/Init	for preserva	tive:	
	ETALS (		Nut	rients		MIS	c.		Gv	psun	n .		Coal	Fly	<u>rash</u>	0	a
□Ag ⊅C		Sb Se	<u></u>		F.A	□ BTEX	-0.000	D	Wallbo			1 0	Ultimate	□ Amı		Trans. O	
ØAI ØF			DC			☐ Naphthal☐ THM/HA				sum(a)	U .	1	☐ % Mois			%Moi	sture
Z'As OK		Sn	□ TP. □ NH	TPO4 3-N	G .	□ VOC			beloi				□ Ash □ Sulfur	□ % C □ Min		Color Acidity	
			DF			□ Oil & Gr	ease		□то				□ BTUs		nalysis	Dielectr	e Strength
ØBa ØN			© C1			☐ Total Col	iform			al metal uble Me			□ Volatile	Matter ☐ Siev	e	Dissob	red Gases
ØBe □ M	/		□ NO □ Br	2		□ pH □ Dissolved	l As			ity (CaS Moisture			□ CHN ther Tests:		oisture	Used O Flashp	
D∕Ca □ M			DN0			□ Dissolved			- (1 Su)	fites			XRF Scan	Andrew Company of the	DES	Metals	in oil
D'Cq DN		Zn	□ SO	4		☐ Rad 226 ☐ Rad 228			□ pH □ chi	orides		01	HGI Fineness		Grease	• (As.Co Hg)	LCr.NLPb
ZCO ON		Hg		2.		□ PCB				onaes ticle Siz	e		rmeness Particulate M	atter	7. 2. 2. 2.	⊕TX :	
ZCr ZP	b   □-	CrVI		1-17	2				Sulfur				- gran	□ TSS		GOFER	

## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-238532-1

Login Number: 238532 List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

ordator. Offins, Robert B	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td>	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

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## **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23 *

Job ID: 680-238532-1

 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 



# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 8/3/2023 6:06:42 PM Revision 1

# **JOB DESCRIPTION**

125915/JM02-08-G01.1/36500

# **JOB NUMBER**

680-237959-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



# **Eurofins Savannah**

### **Job Notes**

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

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

### **Authorization**

Generated 8/3/2023 6:06:42 PM Revision 1

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281 Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Laboratory Job ID: 680-237959-1

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### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Job ID: 680-237959-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-237959-1

### Receipt

The samples were received on 7/20/2023 9:45 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 21.7°C

### Revision

The final report was revised to include the re-prepped data for samples which failed MS/MSD. Both sets of data have been reported.

### **Metals**

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

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# **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-237959-1	AF68738	Water	07/12/23 12:28	07/20/23 09:45
680-237959-2	AF68732	Water	07/12/23 14:32	07/20/23 09:45
680-237959-3	AF68740	Water	07/12/23 11:01	07/20/23 09:45
680-237959-4	AF68743	Water	07/12/23 13:23	07/20/23 09:45
680-237959-5	AF68744	Water	07/12/23 13:28	07/20/23 09:45
680-237959-6	AF68745	Water	07/11/23 15:21	07/20/23 09:45
680-237959-7	AF68741	Water	07/11/23 12:51	07/20/23 09:45
680-237959-8	AF68725	Water	07/18/23 11:49	07/20/23 09:45
680-237959-9	AF68742	Water	07/18/23 14:53	07/20/23 09:45
680-237959-10	AF68747	Water	07/17/23 10:08	07/20/23 09:45
680-237959-11	AF68731	Water	07/17/23 11:15	07/20/23 09:45
680-237959-12	AF68723	Water	07/17/23 13:00	07/20/23 09:45
680-237959-13	AF68724	Water	07/17/23 13:05	07/20/23 09:45
680-237959-14	AF68746	Water	07/17/23 14:24	07/20/23 09:45
680-237959-15	AF68726	Water	07/13/23 14:16	07/20/23 09:45
680-237959-16	AF68725	Water	07/13/23 14:21	07/20/23 09:45
680-237959-17	AF68730	Water	07/13/23 10:01	07/20/23 09:45
680-237959-18	AF68729	Water	07/13/23 11:24	07/20/23 09:45
680-237959-19	AF68728	Water	07/13/23 13:32	07/20/23 09:45
680-237959-20	AF68751	Water	07/10/23 10:00	07/20/23 09:45
680-237959-21	AF68750	Water	07/10/23 11:18	07/20/23 09:45
680-237959-22	AF68755	Water	07/10/23 12:59	07/20/23 09:45
680-237959-23	AF68733	Water	07/10/23 14:10	07/20/23 09:45
680-237959-24	AF68734	Water	07/10/23 14:15	07/20/23 09:45
680-237959-25	AF68757	Water	07/11/23 09:51	07/20/23 09:45
680-237959-26	AF68749	Water	07/11/23 10:52	07/20/23 09:45

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	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

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# **Definitions/Glossary**

Client: South Carolina Public Service Authority Job ID: 680-237959-1 Project/Site: 125915/JM02-08-G01.1/36500

Qualifiers

Metals	
Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

MQL

NC

ND

NEG

POS

PQL

QC

RER

**RPD** 

TEF TEQ

TNTC

RL

**PRES** 

Method Quantitation Limit

**Practical Quantitation Limit** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

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	
Percent Recovery	
Contains Free Liquid	
Colony Forming Unit	
Contains No Free Liquid	
Duplicate Error Ratio (normalized absolute difference)	
Dilution Factor	
Detection Limit (DoD/DOE)	
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
Decision Level Concentration (Radiochemistry)	
Estimated Detection Limit (Dioxin)	
Limit of Detection (DoD/DOE)	
Limit of Quantitation (DoD/DOE)	
EPA recommended "Maximum Contaminant Level"	
Minimum Detectable Activity (Radiochemistry)	
Minimum Detectable Concentration (Radiochemistry)	
Method Detection Limit	
Minimum Level (Dioxin)	
Most Probable Number	

2010011011 041111141	
Client: South Carolina Public Service Authority	Job ID: 680-237959-1
Project/Site: 125915/JM02-08-G01.1/36500	

Project/Site: 125915/JM02-08-G01.1/36500	
Client Sample ID: AF68738	Lab Sample ID: 680-237959-1
No Detections.	
Client Sample ID: AF68732	Lab Sample ID: 680-237959-2
No Detections.	
Client Sample ID: AF68740	Lab Sample ID: 680-237959-3
No Detections.	
Client Sample ID: AF68743	Lab Sample ID: 680-237959-4
No Detections.	
Client Sample ID: AF68744	Lab Sample ID: 680-237959-5
No Detections.	
Client Sample ID: AF68745	Lab Sample ID: 680-237959-6
No Detections.	
Client Sample ID: AF68741	Lab Sample ID: 680-237959-7
No Detections.	
Client Sample ID: AF68725	Lab Sample ID: 680-237959-8
No Detections.	
Client Sample ID: AF68742	Lab Sample ID: 680-237959-9
No Detections.	
Client Sample ID: AF68747	Lab Sample ID: 680-237959-10
No Detections.	
Client Sample ID: AF68731	Lab Sample ID: 680-237959-11
No Detections.	
Client Sample ID: AF68723	Lab Sample ID: 680-237959-12
No Detections.	
Client Sample ID: AF68724	Lab Sample ID: 680-237959-13
No Detections.	
Client Sample ID: AF68746	Lab Sample ID: 680-237959-14
No Detections.	
Client Sample ID: AF68726	Lab Sample ID: 680-237959-15
No Detections.	
Client Sample ID: AF68725	Lab Sample ID: 680-237959-16

This Detection Summary does not include radiochemical test results.

No Detections.

# **Detection Summary**

Project/Site: 125915/JM02-08-G01.1/36500	
Client Sample ID: AF68730	Lab Sample ID: 680-237959-17
No Detections.	
Client Sample ID: AF68729	Lab Sample ID: 680-237959-18
No Detections.	
Client Sample ID: AF68728	Lab Sample ID: 680-237959-19
No Detections.	
Client Sample ID: AF68751	Lab Sample ID: 680-237959-20
No Detections.	
Client Sample ID: AF68750	Lab Sample ID: 680-237959-21
No Detections.	
Client Sample ID: AF68755	Lab Sample ID: 680-237959-22
No Detections.	
Client Sample ID: AF68733	Lab Sample ID: 680-237959-23
No Detections.	
Client Sample ID: AF68734	Lab Sample ID: 680-237959-24
No Detections.	
Client Sample ID: AF68757	Lab Sample ID: 680-237959-25
No Detections.	
Client Sample ID: AF68749	Lab Sample ID: 680-237959-26

This Detection Summary does not include radiochemical test results.

No Detections.

Client: South Carolina Public Service Authority

Job ID: 680-237959-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-1 **Client Sample ID: AF68738** Date Collected: 07/12/23 12:28

Matrix: Water

Job ID: 680-237959-1

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA) Analyte Result Qualifier RL MDL Unit Prepared

Analyzed Dil Fac Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:36

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Lab Sample ID: 680-237959-2 **Client Sample ID: AF68732** Date Collected: 07/12/23 14:32

Matrix: Water

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:40

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Client Sample ID: AF68740 Lab Sample ID: 680-237959-3

Matrix: Water

Date Collected: 07/12/23 11:01 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:42

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-4

**Client Sample ID: AF68743** Date Collected: 07/12/23 13:23

Matrix: Water

Job ID: 680-237959-1

Method: SW846 7470A - Mercury (CVAA)

Date Received: 07/20/23 09:45

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury

0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:43

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

**Client Sample ID: AF68744** Date Collected: 07/12/23 13:28

Lab Sample ID: 680-237959-5

Date Received: 07/20/23 09:45

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:45

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-6 **Client Sample ID: AF68745** Date Collected: 07/11/23 15:21

Matrix: Water

Job ID: 680-237959-1

Method: SW846 7470A - Mercury (CVAA)

Date Received: 07/20/23 09:45

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury

0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:46

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-7

Matrix: Water

Job ID: 680-237959-1

Client Sample ID: AF68741 Date Collected: 07/11/23 12:51

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:51

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Client: South Carolina Public Service Authority

Job ID: 680-237959-1

Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-8 **Client Sample ID: AF68725** Date Collected: 07/18/23 11:49

Matrix: Water

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:53

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-9 **Client Sample ID: AF68742** Date Collected: 07/18/23 14:53

Matrix: Water

Job ID: 680-237959-1

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:54

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68747
Date Collected: 07/17/23 10:08

Lab Sample ID: 680-237959-10

Matrix: Water

Job ID: 680-237959-1

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:56 1

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Client: South Carolina Public Service Authority

Job ID: 680-237959-1

Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-11 Client Sample ID: AF68731 Date Collected: 07/17/23 11:15

Matrix: Water

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:57

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Lab Sample ID: 680-237959-12 **Client Sample ID: AF68723** Date Collected: 07/17/23 13:00

Matrix: Water

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 16:59

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-13

Matrix: Water

Job ID: 680-237959-1

Client Sample ID: AF68724
Date Collected: 07/17/23 13:05
Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/21/23 10:52 07/21/23 17:00 1

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Client: South Carolina Public Service Authority

Job ID: 680-237959-1

Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68746 Lab Sample ID: 680-237959-14

Matrix: Water

Date Collected: 07/17/23 14:24 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	0.200	U F1 F2	0.200		ug/L		07/25/23 12:25	07/26/23 10:29	1	
Mercury	0.200	U	0.200		ug/L		08/02/23 10:19	08/03/23 10:19	1	

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Client: South Carolina Public Service Authority

Job ID: 680-237959-1

Project/Site: 125915/JM02-08-G01.1/36500

Date Collected: 07/13/23 14:16 Matrix: Water

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	0.200	U F1	0.200		ug/L		07/25/23 12:39	07/26/23 10:37	1	
Mercury	0.200	U	0.200		ug/L		08/02/23 10:19	08/03/23 10:20	1	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-16 **Client Sample ID: AF68725** Date Collected: 07/13/23 14:21

Matrix: Water

Job ID: 680-237959-1

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:45

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Client Sample ID: AF68730 Lab Sample ID: 680-237959-17

Matrix: Water

Date Collected: 07/13/23 10:01 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	П	0.200		ua/I		07/25/23 12:39	07/26/23 10:46	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68729

Lab Sample ID: 680-237959-18

Matrix: Water

Job ID: 680-237959-1

Date Collected: 07/13/23 11:24 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:48

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Client Sample ID: AF68728 Lab Sample ID: 680-237959-19

Matrix: Water

Date Collected: 07/13/23 13:32 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:49 1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Client Sample ID: AF68751

Lab Sample ID: 680-237959-20

Matrix: Water

Date Collected: 07/10/23 10:00 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:51 1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Client Sample ID: AF68750 Lab Sample ID: 680-237959-21

Matrix: Water

Date Collected: 07/10/23 11:18 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.200	U	0.200		ug/L		07/25/23 12:39	07/26/23 10:52	1		

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-22

Matrix: Water

Job ID: 680-237959-1

**Client Sample ID: AF68755** Date Collected: 07/10/23 12:59 Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:54

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Lab Sample ID: 680-237959-23 **Client Sample ID: AF68733** Date Collected: 07/10/23 14:10

Matrix: Water

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:55

**Eurofins Savannah** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-24 **Client Sample ID: AF68734** Date Collected: 07/10/23 14:15

Matrix: Water

Job ID: 680-237959-1

Method: SW846 7470A - Mercury (CVAA)

Date Received: 07/20/23 09:45

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury

0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 10:57

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Lab Sample ID: 680-237959-25 **Client Sample ID: AF68757** Date Collected: 07/11/23 09:51

Matrix: Water

Job ID: 680-237959-1

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA) Analyte Result Qualifier RL MDL Unit

Prepared Analyzed Dil Fac Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 11:02

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68749 Date Collected: 07/11/23 10:52 Lab Sample ID: 680-237959-26

Matrix: Water

Job ID: 680-237959-1

Date Received: 07/20/23 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Mercury 0.200 U 0.200 ug/L 07/25/23 12:39 07/26/23 11:03 1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Prep Type: Total/NA

**Prep Batch: 789400** 

**Prep Batch: 789400** 

Prep Type: Total/NA

**Prep Batch: 789957** 

Prep Type: Total/NA

**Prep Batch: 789957** 

Prep Type: Total/NA

**Prep Batch: 789957** 

Prep Type: Total/NA

Client Sample ID: AF68746

Client Sample ID: AF68746

%Rec

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-789400/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 789621

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 0.200 07/21/23 10:52 07/21/23 16:32 Mercury 0.200 U ug/L

Lab Sample ID: LCS 680-789400/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA **Prep Batch: 789400** 

Analysis Batch: 789621

Spike LCS LCS

Added Result Qualifier Limits Analyte Unit D %Rec 2.50 80 - 120 Mercury 2.592 ug/L 104

Lab Sample ID: 680-237959-1 MS Client Sample ID: AF68738 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 789621

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Limits Analyte Added Unit %Rec 0.200 U 1.00 1.059 97 80 - 120 Mercury ug/L

Lab Sample ID: 680-237959-1 MSD Client Sample ID: AF68738 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 789621

**Prep Batch: 789400** MSD MSD %Rec Spike **RPD** Sample Sample **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit ug/L Mercury 0.200 U 1.00 1.032 80 - 120

Lab Sample ID: MB 680-789957/12-A

Matrix: Water

Analysis Batch: 790193

MR MR

RL Analyte Result Qualifier **MDL** Unit **Prepared** Analyzed Dil Fac 0.200 U 0.200 07/25/23 12:25 07/26/23 10:26 Mercury ug/L

Lab Sample ID: LCS 680-789957/13-A

Matrix: Water

Analysis Batch: 790193

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 2.50 80 - 120 Mercury 2.644 ug/L 106

Lab Sample ID: 680-237959-14 MS

Matrix: Water

Analysis Batch: 790193

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 0.200 U F1 F2 1.00 Mercury 0.2046 F1 ug/L 20 80 - 120

Lab Sample ID: 680-237959-14 MSD

Matrix: Water

Analysis Batch: 790193 **Prep Batch: 789957** Spike MSD MSD %Rec **RPD** Sample Sample Added Limits **RPD** Analyte Result Qualifier Result Qualifier Unit %Rec Limit 0.200 U F1 F2 1.00 27 Mercury 0.200 UF1F2 ug/L 16 80 - 120

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

Lab Sample ID: MB 680-789960/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 790193

Prep Type: Total/NA

**Prep Batch: 789960** 

**Prep Batch: 789960** 

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** Mercury 0.200 07/25/23 12:39 07/26/23 10:34 0.200 U ug/L

Lab Sample ID: LCS 680-789960/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA **Prep Batch: 789960** 

Analysis Batch: 790193

Spike LCS LCS

%Rec

Added Result Qualifier Limits **Analyte** Unit D %Rec 2.50 80 - 120 Mercury 2.631 ug/L 105

Lab Sample ID: 680-237959-15 MS Client Sample ID: AF68726 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 790193

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit %Rec

Mercury 0.200 UF1 1.00 0.2226 F1 22 80 - 120 ug/L

Lab Sample ID: 680-237959-15 MSD Client Sample ID: AF68726 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 790193 **Prep Batch: 789960** MSD MSD %Rec Spike **RPD** Sample Sample

**Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.200 U F1 Mercury 1.00 0.2316 F1 ug/L 80 - 120

Lab Sample ID: MB 680-791340/12-A

Matrix: Water

Analysis Batch: 791612

Prep Type: Total/NA

**Prep Batch: 791340** 

Client Sample ID: Method Blank

MR MR

Analyte Result Qualifier

RL **MDL** Unit **Prepared** Analyzed Dil Fac 0.200 U 0.200 08/02/23 10:17 08/03/23 10:11 Mercury ug/L

Lab Sample ID: LCS 680-791340/13-A

Matrix: Water

Analysis Batch: 791612

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

**Prep Batch: 791340** 

Spike LCS LCS %Rec

Result Qualifier Limits Unit D %Rec

Added Analyte 2.50 2.769 80 - 120 Mercury ug/L 111

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

#### Metals

**Prep Batch: 789400** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total/NA	Water	7470A	
680-237959-2	AF68732	Total/NA	Water	7470A	
680-237959-3	AF68740	Total/NA	Water	7470A	
680-237959-4	AF68743	Total/NA	Water	7470A	
680-237959-5	AF68744	Total/NA	Water	7470A	
680-237959-6	AF68745	Total/NA	Water	7470A	
680-237959-7	AF68741	Total/NA	Water	7470A	
680-237959-8	AF68725	Total/NA	Water	7470A	
680-237959-9	AF68742	Total/NA	Water	7470A	
680-237959-10	AF68747	Total/NA	Water	7470A	
680-237959-11	AF68731	Total/NA	Water	7470A	
680-237959-12	AF68723	Total/NA	Water	7470A	
680-237959-13	AF68724	Total/NA	Water	7470A	
MB 680-789400/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-789400/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237959-1 MS	AF68738	Total/NA	Water	7470A	
680-237959-1 MSD	AF68738	Total/NA	Water	7470A	

Analysis Batch: 789621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-1	AF68738	Total/NA	Water	7470A	789400
680-237959-2	AF68732	Total/NA	Water	7470A	789400
680-237959-3	AF68740	Total/NA	Water	7470A	789400
680-237959-4	AF68743	Total/NA	Water	7470A	789400
680-237959-5	AF68744	Total/NA	Water	7470A	789400
680-237959-6	AF68745	Total/NA	Water	7470A	789400
680-237959-7	AF68741	Total/NA	Water	7470A	789400
680-237959-8	AF68725	Total/NA	Water	7470A	789400
680-237959-9	AF68742	Total/NA	Water	7470A	789400
680-237959-10	AF68747	Total/NA	Water	7470A	789400
680-237959-11	AF68731	Total/NA	Water	7470A	789400
680-237959-12	AF68723	Total/NA	Water	7470A	789400
680-237959-13	AF68724	Total/NA	Water	7470A	789400
MB 680-789400/1-A	Method Blank	Total/NA	Water	7470A	789400
LCS 680-789400/2-A	Lab Control Sample	Total/NA	Water	7470A	789400
680-237959-1 MS	AF68738	Total/NA	Water	7470A	789400
680-237959-1 MSD	AF68738	Total/NA	Water	7470A	789400

**Prep Batch: 789957** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	<u> </u>
MB 680-789957/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-789957/13-A	Lab Control Sample	Total/NA	Water	7470A	
680-237959-14 MS	AF68746	Total/NA	Water	7470A	
680-237959-14 MSD	AF68746	Total/NA	Water	7470A	

**Prep Batch: 789960** 

<b>Lab Sample ID</b> 680-237959-15	Client Sample ID AF68726	Prep Type Total/NA	Matrix Water	Method 7470A	Prep Batch
680-237959-16	AF68725	Total/NA	Water	7470A	
680-237959-17	AF68730	Total/NA	Water	7470A	

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# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

### **Metals (Continued)**

Prep Batch: 789960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-18	AF68729	Total/NA	Water	7470A	
680-237959-19	AF68728	Total/NA	Water	7470A	
680-237959-20	AF68751	Total/NA	Water	7470A	
680-237959-21	AF68750	Total/NA	Water	7470A	
680-237959-22	AF68755	Total/NA	Water	7470A	
680-237959-23	AF68733	Total/NA	Water	7470A	
680-237959-24	AF68734	Total/NA	Water	7470A	
680-237959-25	AF68757	Total/NA	Water	7470A	
680-237959-26	AF68749	Total/NA	Water	7470A	
MB 680-789960/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-789960/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-237959-15 MS	AF68726	Total/NA	Water	7470A	
680-237959-15 MSD	AF68726	Total/NA	Water	7470A	

#### Analysis Batch: 790193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	789957
680-237959-15	AF68726	Total/NA	Water	7470A	789960
680-237959-16	AF68725	Total/NA	Water	7470A	789960
680-237959-17	AF68730	Total/NA	Water	7470A	789960
680-237959-18	AF68729	Total/NA	Water	7470A	789960
680-237959-19	AF68728	Total/NA	Water	7470A	789960
680-237959-20	AF68751	Total/NA	Water	7470A	789960
680-237959-21	AF68750	Total/NA	Water	7470A	789960
680-237959-22	AF68755	Total/NA	Water	7470A	789960
680-237959-23	AF68733	Total/NA	Water	7470A	789960
680-237959-24	AF68734	Total/NA	Water	7470A	789960
680-237959-25	AF68757	Total/NA	Water	7470A	789960
680-237959-26	AF68749	Total/NA	Water	7470A	789960
MB 680-789957/12-A	Method Blank	Total/NA	Water	7470A	789957
MB 680-789960/1-A	Method Blank	Total/NA	Water	7470A	789960
LCS 680-789957/13-A	Lab Control Sample	Total/NA	Water	7470A	789957
LCS 680-789960/2-A	Lab Control Sample	Total/NA	Water	7470A	789960
680-237959-14 MS	AF68746	Total/NA	Water	7470A	789957
680-237959-14 MSD	AF68746	Total/NA	Water	7470A	789957
680-237959-15 MS	AF68726	Total/NA	Water	7470A	789960
680-237959-15 MSD	AF68726	Total/NA	Water	7470A	789960

#### **Prep Batch: 791340**

Lab Sample ID 680-237959-14	Client Sample ID AF68746	Prep Type Total/NA	Matrix Water	<b>Method</b> 7470A	Prep Batch
680-237959-15	AF68726	Total/NA	Water	7470A	
MB 680-791340/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-791340/13-A	Lab Control Sample	Total/NA	Water	7470A	

#### Analysis Batch: 791612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-237959-14	AF68746	Total/NA	Water	7470A	791340
680-237959-15	AF68726	Total/NA	Water	7470A	791340
MB 680-791340/12-A	Method Blank	Total/NA	Water	7470A	791340
LCS 680-791340/13-A	Lab Control Sample	Total/NA	Water	7470A	791340

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68738

Date Collected: 07/12/23 12:28 Date Received: 07/20/23 09:45 Lab Sample ID: 680-237959-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:36

Client Sample ID: AF68732

Lab Sample ID: 680-237959-2

Date Collected: 07/12/23 14:32 Matrix: Water Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:40

Client Sample ID: AF68740 Lab Sample ID: 680-237959-3

Matrix: Water

Date Collected: 07/12/23 11:01 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:42

**Client Sample ID: AF68743** Lab Sample ID: 680-237959-4

Date Collected: 07/12/23 13:23 **Matrix: Water** Date Received: 07/20/23 09:45

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab 07/21/23 10:52 Total/NA 7470A 789400 DW EET SAV Prep Total/NA 07/21/23 16:43 Analysis 7470A 1 789621 BJB **EET SAV** 

Client Sample ID: AF68744 Lab Sample ID: 680-237959-5

Date Collected: 07/12/23 13:28 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:45

Client Sample ID: AF68745 Lab Sample ID: 680-237959-6

Date Collected: 07/11/23 15:21 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:46

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68741

Date Collected: 07/11/23 12:51 Date Received: 07/20/23 09:45 Lab Sample ID: 680-237959-7

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:51

Client Sample ID: AF68725

Date Collected: 07/18/23 11:49 Date Received: 07/20/23 09:45 Lab Sample ID: 680-237959-8

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:53

Client Sample ID: AF68742

Date Collected: 07/18/23 14:53

Date Received: 07/20/23 09:45

Lab Sample ID: 680-237959-9

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:54

Client Sample ID: AF68747

Date Collected: 07/17/23 10:08

Date Received: 07/20/23 09:45

Lab Sample ID: 680-237959-10

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:56

Client Sample ID: AF68731

Date Collected: 07/17/23 11:15

Date Received: 07/20/23 09:45

Batch

Batch

Lab	Sample	ID:	680	-2	3	7	959-1	11
						_		

**Prepared** or Analyzed Lab 07/21/23 10:52 **EET SAV** 

Factor Number Analyst Method **Prep Type** Type Run Total/NA 7470A Prep 789400 DW Total/NA Analysis 7470A 789621 BJB **EET SAV** 07/21/23 16:57 1

Dilution

**Batch** 

Client Sample ID: AF68723

Date Collected: 07/17/23 13:00

Date Received: 07/20/23 09:45

Lab	Sample	IU:	000-23/939-12
			Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 16:59

**Eurofins Savannah** 

Matrix: Water

Lab Sample ID: 690 227050 12

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Client Sample ID: AF68724

Date Collected: 07/17/23 13:05 Date Received: 07/20/23 09:45

Date Collected: 07/17/23 14:24

Lab Sample ID: 680-237959-13

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789400	DW	EET SAV	07/21/23 10:52
Total/NA	Analysis	7470A		1	789621	BJB	EET SAV	07/21/23 17:00

Client Sample ID: AF68746 Lab Sample ID: 680-237959-14

Matrix: Water

08/02/23 10:19

08/03/23 10:19

Date Received: 07/20/23 09:45 Batch Batch Dilution **Batch** Prepared Method **Prep Type Number Analyst** or Analyzed Type Run **Factor** Lab Total/NA 7470A 789957 DW **EET SAV** 07/25/23 12:25 Prep Total/NA 7470A 790193 BJB 07/26/23 10:29 Analysis **EET SAV** 1

Client Sample ID: AF68726 Lab Sample ID: 680-237959-15 Date Collected: 07/13/23 14:16 Matrix: Water

1

791340 DW

791612 BJB

**EET SAV** 

**EET SAV** 

Date Received: 07/20/23 09:45

Prep

Analysis

7470A

7470A

Total/NA

Total/NA

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor **Number Analyst** or Analyzed Lab Total/NA Prep 7470A 789960 DW **EET SAV** 07/25/23 12:39 Total/NA 790193 BJB 07/26/23 10:37 Analysis 7470A **EET SAV** 1

Total/NA Prep 7470A 791340 DW **EET SAV** 08/02/23 10:19 Total/NA 7470A **EET SAV** 08/03/23 10:20 Analysis 791612 BJB 1

Client Sample ID: AF68725 Lab Sample ID: 680-237959-16 Date Collected: 07/13/23 14:21 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:45

Client Sample ID: AF68730 Lab Sample ID: 680-237959-17

Date Collected: 07/13/23 10:01 Date Received: 07/20/23 09:45

Batch Batch Dilution **Batch Prepared** Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab 07/25/23 12:39 Total/NA DW **EET SAV** Prep 7470A 789960 Total/NA **EET SAV** 07/26/23 10:46 **Analysis** 7470A 790193 BJB 1

Client Sample ID: AF68729 Lab Sample ID: 680-237959-18

Date Collected: 07/13/23 11:24 Date Received: 07/20/23 09:45

Batch Batch **Dilution Batch** Prepared **Prep Type** Method Run Factor **Number Analyst** or Analyzed Type Lab

7470A DW **EET SAV** 07/25/23 12:39 Total/NA Prep 789960 Total/NA Analysis 7470A **EET SAV** 07/26/23 10:48 1 790193 BJB

**Eurofins Savannah** 

Matrix: Water

**Matrix: Water** 

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

**Client Sample ID: AF68728** 

Lab Sample ID: 680-237959-19

Matrix: Water

Date Collected: 07/13/23 13:32 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:49

Client Sample ID: AF68751

Lab Sample ID: 680-237959-20

Matrix: Water

Date Collected: 07/10/23 10:00 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:51

Client Sample ID: AF68750

Lab Sample ID: 680-237959-21

Matrix: Water

Date Collected: 07/10/23 11:18 Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:52

Client Sample ID: AF68755

Lab Sample ID: 680-237959-22 Date Collected: 07/10/23 12:59 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A		·	789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:54

**Client Sample ID: AF68733** 

Lab Sample ID: 680-237959-23 Date Collected: 07/10/23 14:10 **Matrix: Water** 

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:55

Client Sample ID: AF68734

Lab Sample ID: 680-237959-24 Date Collected: 07/10/23 14:15 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 10:57

**Eurofins Savannah** 

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

Lab Sample ID: 680-237959-25

Matrix: Water

Date Collected: 07/11/23 09:51 Date Received: 07/20/23 09:45

**Client Sample ID: AF68757** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 11:02

Lab Sample ID: 680-237959-26 **Client Sample ID: AF68749** 

Date Collected: 07/11/23 10:52 Matrix: Water

Date Received: 07/20/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			789960	DW	EET SAV	07/25/23 12:39
Total/NA	Analysis	7470A		1	790193	BJB	EET SAV	07/26/23 11:03

**Laboratory References:** 

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

**Eurofins Savannah** 

 $\mathbf{SSL} \ \Box$ 

# santee cooper

### Chain of Custody

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

COLER XL axi& ətərine¶ [] ОСО Derticulate Matter gH □ IN 🗆 SVII Chlorides □ Fineness □ Rad 228 Oil & Grease tos 🗆 □ Cq Hđ ( uz 🗆  $\mathbf{s} \mathbf{N} \square$ □ Kad 226 DHC Denity (CaSO4) Purity (CaSO4) Pullings NPDES SON O ☐ Dissolved Fe D XKL 2000 oM 🗆 □ C³  $\Lambda \square$ ☐ Dissolved As Other Tests: O BL Hq□ шП aM 🗆 □ Be əmisioM % □ □ CHM ZON [] mrolifoD latoT 🗆 Sieve DΩ □ Volatile Matter 8M □ iΤロ □ Ba DE. COL D BLINS a D .)OI [] D Oil & Grease IS 🗆 IJΠ  $\Box$  **B** Lensmith [] N-EHN D while [] WIV G □ AOC POTT/9T sA □ 🗆 ‰ Сэгрон USA D  $u_S \, \square$  $\square \mathbf{K}$ AAH\MHT 🗆 Wallboard Cypsuai(of DDOC DFOL ⇒misioM % □ ☐ Naphthalene as 🗆 o Fe IA 🗆 ешонику 🛚 □ BLEX olemiti() OOL LI aA □ 9S 🗆 □C⊓ **WISC** Nutrients HSEAH Coal CINSANS) 🗆 METALS (all ) Date/Time/Init for preservative: əted Employee# Relinquished by: Employee # Received by: Date əwiT Preservative Lot#: Received by: 9cniT Employee# Relinquished by: Date Employee # əmiT Date Correct pH: unorallo EZ/61/L Shop હાળ Initial: LEWB (°C): Employee# Relinquished by: Employee # amil Date amiT Sample Receiving (Internal Use Only) တ SZ-JAM **ひと 43 土** 27/21/2 E571 680-237959 2 EZ/81/L 나비 SCL80 => H1 L 80 = -> 42-9AW Chain 1521 S+L 89 +V LZ-4YM 22/11/1 으 IZSI Custod) 44F897A 1328 4nd 92-44M 27F68743 9Z - JAM 2Z21 OHL89-17 62-9-AW 1011 ZEL89=14 91-9AW T 75H1 85L89-17 W M M M 27/21/1 IS-9AW 7/6m 2.0 -78 OLTIL 1558 × 7 4P 2 4 Bottle type: | G/Plastic-P) Grab (G) or Composite ( Matrix(see below **Collection Time** £ Preservative Sample Collector Collection Date Total # of containers Any other notes Misc. sample into Reporting limit (λ]υο (Glass-(see Description (Juternal use Method # Sample Location/ Labworks ID# **Strammo Analysis Group** (SeY @santeecooper.com ON ALLIMOI JMO2.89.681.1 36500 SILSTI Customer Email/Report Recipient: Project/Task/Unit #: Date Results Needed by: Serun request for any flagged QC

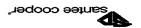
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Contract Lab Info. TA -SAV

LCWILLIA



## Chain of Custody

Santec Cooper
One Riverwood Drive
Moneles Comer, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

Project/Task/Unit #:

Date Results Needed by:

Customer Email/Report Recipient:

**Quo12** sisylenA 125915 JM02.09.601.1 36500 @santeecooper.com **(Yes)** Rerun request for any flagged QC

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Analysis Group

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Customer Email/Report Recipient:

172d12 \ 1W05.08.641.1 3650 ON SAY \_@santeecooper.com Rerun request for any flagged QC Project/Task/Unit #: Date Results Needed by: Santee Cooper
One Riverwood Drive
Moneda Comer, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax. (843)761-4175 Chain of Custody santee cooper\*

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### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-237959-1

Login Number: 237959 List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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# **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02-08-G01.1/36500

Job ID: 680-237959-1

### **Laboratory: Eurofins Savannah**

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

Authority	Program	Identification Number	<b>Expiration Date</b>
South Carolina	State	98001	06-30-23 *

 $^{\star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

Eurofins Savannah

Field Data Sheets	
(Note: the color coding is to assist field personnel in determining when the well has stabilized enough to begin sample collection.)	

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW-A1-1	28.14	5.74	10-20	2/14/2023	1522	23.08

Drawdown: 5.91 depth to GW (ft)

Ferric Iron: +++ mg/L Ferrous Iron: +++ mg/L

1 chous hon.		mg/L				
Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1457	21.06	4.17	114	458	0	2.26
1502	20.31	4.44	60	474	0	1
1507	20.12	4.4	46	485	0	0.8
1512	19.99	4.3	44	498	0	0.74
1517	19.98	4.21	45	502	0	0.73
1522	20.01	4.17	42	508	0	0.69

#### Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-7	29.94	8.75	15- 35	2/16/2023	1255	26.98

Drawdown: 8.81 depth to GW (ft)

 $\begin{array}{ccc} \text{Ferric Iron:} & 0.83 & \text{mg/L} \\ \text{Ferrous Iron:} & 0.78 & \text{mg/L} \end{array}$ 

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1235	21.23	6.15	24	1180	0	3.07
1240	21.08	5.59	62	1200	0	1.94
1245	20.93	5.51	73	1210	0	1.89
1250	20.92	5.48	79	1200	0	1.84
1255	20.96	5.5	80	1200	0	1.79

Comments/Conditions:

Samples were collected by Zach McHenry and Melanie Goings

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-1	41.35	17.46	23-33	2/28/2023	1258	35.81

Drawdown: 17.68 depth to GW (ft)

Ferric Iron: +++ mg/L Ferrous Iron: +++ mg/L

Terrous from.		mg/L				
Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1230	23.62	6.42	78	1600	7.7	2.46
1235	24.46	6.33	11	1840	2.7	1.36
1240	24.4	6.46	-3	1930	4.8	0.99
1245	24.4	6.34	-9	1930	2.9	0.92
1250	24.31	6.35	-15	1920	3.6	0.84
1255	24.34	6.31	-20	1900	3.1	0.79
1258	24.35	6.3	-22	1900	3.1	0.81

#### Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-2	29.21	6.5	12'-20'	2/27/2023	1544	24.64

Drawdown: 6.79 depth to GW (ft)

Ferric Iron: 3 mg/L Ferrous Iron: 2.9 mg/L

		g/ L			- 1 · 1 ·	51 1 1
Time	Temp	рН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1513	22.01	5.6	55	448	72.1	1.5
1518	22.2	4.99	101	413	53.3	1.08
1523	22.18	4.85	113	393	12.6	0.89
1528	22.26	4.8	118	381	8.8	0.83
1533	21.99	4.85	112	378	8.1	0.77
1538	21.59	5.18	90	372	9.1	0.72
1541	21.36	5.12	90	369	9.1	0.68
1544	21.25	5.09	90	367	7.8	0.68
						· · · · · · · · · · · · · · · · · · ·

#### Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-3	28.31	6.02	10'-20'	2/28/2023	1144	22.82

Drawdown: 6.21 depth to GW (ft)

Ferric Iron: 0.84 mg/L Ferrous Iron: 0.83 mg/L

-		1116/12				
Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1124	21.21	4.76	76	183	5.4	5.06
1129	21.12	4.43	96	185	2.6	1.26
1134	21.16	4.35	100	184	3.4	1.06
1139	21.16	4.31	99	182	1.5	0.98
1144	21.18	4.34	96	182	1.7	0.96

#### Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-4	28.24	5.77	12'-22'	2/28/2023	1019	22.54

Drawdown: 6.03 depth to GW (ft)

Ferric Iron: 0.95 mg/L Ferrous Iron: 0.69 mg/L

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
945		6.27	133	359	14.7	2.38
950		6.28	121	364	8.6	2.01
955		6.3	107	365	7.7	1.71
1000		6.31	88	363	7.7	1.46
1005		6.32	73	363	6.6	1.51
1003				363		
		6.35	61		6.1	1.35
1013		6.36	55	364	5.9	1.36
1016		6.35	50	365	5.6	1.28
1019	21.32	6.39	46	365	5.3	1.34

Comments/Conditions: duplicate taken at 1024

Samples were collected by Zach McHenry and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-5	37.64	15.08	23'-33'	2/28/2023	1431	35.92

Drawdown: 15.3 depth to GW (ft)

Ferric Iron: 1.28 mg/L Ferrous Iron: 0.91 mg/L

Time	Temp round 1	pH round 1	Eh ORP	Spec Cond round 1	·	Dissolved Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1400	24.6	7.21	33	1620	1.6	1.82
1405	24.83	7.04	25	1620	2.4	1.05
1410	25.11	7.04	12	1600	1.2	1.05
1415	25.17	7.04	-4	1590	0.2	0.88
1420	25.46	7.02	-19	1580	1.1	0.89
1425	25.01	7.03	-32	1560	0.8	0.81
1428	25.21	7.02	-40	1550	0	0.81
1431	25.3	7.01	-42	1550	0	0.82

#### Comments/Conditions:

Samples were collected by Zach McHenry and Marvin Lewis

**NPDES/CCR:** Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW-A1-1	28.14	6.94	10-20	7/12/2023	1052	23.08

Drawdown: 7.12 depth to GW (ft)

Ferric Iron: +++ mg/L Ferrous Iron: mg/L

		1115/12				
Time	Temp	рН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1022	23.91	4.82	33	614	0.3	1.64
1027	23.5	4.62	-6	655	0.6	0.88
1032	23.23	4.59	-21	703	0.8	0.77
1037	23.25	4.59	-30	718	1.3	0.72
1042	23.23	4.6	-37	726	2.1	0.7
1047	23.3	4.6	-42	726	3.1	0.68
1052	23.31	4.6	-47	731	3.5	0.67

#### Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-7	29.94	9.67	15- 35	6/27/2023	1357	26.98

Drawdown: 9.77 depth to GW (ft)

Ferric Iron: 0.26 mg/L Ferrous Iron: 0.29 mg/L

Time	Temp	рН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1332	31.18	6.61	-203	2420	0	1.27
1337	29.81	6.41	-224	2320	0	0.92
1342	29.54	6.39	-232	2310	0	0.82
1347	29.13	6.4	-240	2330	0.3	0.8
1352	28.84	6.4	-245	2340	0.7	0.77
1357	28.77	6.4	-250	2340	1.7	0.74

Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-1	41.35	18.08	23-33	7/10/2023	1118	35.78

Drawdown: 18.44 depth to GW (ft)

Ferric Iron: +++ mg/L Ferrous Iron: mg/L

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1033	23.95	6.04	31	1770	45.1	2.21
1038	23.87	6.12	-3	1940	2.2	1.04
1043	24.03	6.12	-24	1970	2.7	0.86
1048	24.33	6.11	-43	1980	3.1	0.8
1053	24.33	6.11	-59	1960	3.7	0.76
1058	24.18	6.1	-71	1950	3.5	0.73
1103	24.13	6.08	-88	1950	3	0.71
1106	24.34	6.07	-96	1930	3.4	0.7
1109	23.93	6.07	-104	1930	3.9	0.7
1112	23.92	6.06	-112	1920	3.5	0.7
1115	23.84	6.06	-118	1930	2.5	0.69
1118	24.55	6.06	-122	1920	1.9	0.68

#### Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

228 Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As
Ra 226/228
Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-2	29.21	8.01	12'-20'	7/10/2023	1000	24.64

Drawdown: 8.46 depth to GW (ft)

 $\begin{array}{lll} \mbox{Ferric Iron:} & 0.81 & \mbox{mg/L} \\ \mbox{Ferrous Iron:} & \mbox{mg/L} \end{array}$ 

remous non.	mg/L						
Time	Temp	рН	Eh	Spec Cond	Turbidity	Dissolved	
	round 1	round 1	ORP	round 1		Oxygen	
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)	
930	22.68	4.13	112	200	18.4	1.82	
935	23.07	4.29	88	170	4.2	1.11	
940	23.04	4.36	63	164	1.9	0.95	
945	22.95	4.4	55	165	1.9	0.88	
950	23.06	4.44	48	164	1.8	0.83	
955	23.12	4.46	43	166	1.7	0.81	
1000	23.17	4.45	42	165	2.5	0.79	

#### Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-3	28.31	7.6	10'-20'	7/6/2023	1409	22.78

Drawdown: 7.74 depth to GW (ft)

Ferric Iron: 0.6 mg/L Ferrous Iron: mg/L

remotes from the state of the s								
Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved		
	round 1	round 1	ORP	round 1		Oxygen		
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)		
1349	28.64	4.47	82	161	0	5.15		
1354	28.6	4.46	51	163	0	0.86		
1359	28.72	4.46	39	167	0	0.75		
1404	28.54	4.46	33	166	1.3	0.7		
1409	28.87	4.45	29	166	2.3	0.65		

#### Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-4	28.24	7.26	12'-22'	7/6/2023	1308	22.57

Drawdown: 7.58 depth to GW (ft)

Ferric Iron: 3.14 mg/L Ferrous Iron: 3.06 mg/L

Time	Temp round 1	pH round 1	Eh ORP	Spec Cond round 1	Turbidity	Dissolved Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1232	29.95	6.45	-6	366	4.7	1.09
1237	29.57	6.3	-14	356	0	0.81
1242	28.84	6.27	-15	346	0.4	0.72
1247	28.26	6.28	-21	361	0	0.68
1252	27.42	6.29	-27	382	0.9	0.66
1257	27.19	6.31	-37	398	0.5	0.65
1302	27.19	6.34	-46	407	0.7	0.64
1305	26.77	6.35	-51	412	1.8	0.64
1308	26.53	6.37	-56	423	1.9	0.63

Comments/Conditions: DUP @ 1313

Samples were collected by Justin Kirk and Marvin Lewis

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-5	37.64	14.65	23'-33'	7/10/2023	1259	35.91

Drawdown: 17.57 depth to GW (ft)

Ferric Iron: 2.96 mg/L Ferrous Iron: mg/L

Terrous from.	rous non. hig/L							
Time	Temp	рН	Eh	Spec Cond	Turbidity	Dissolved		
	round 1	round 1	ORP	round 1		Oxygen		
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)		
1239	26.97	6.76	-25	1430	0.2	1.49		
1244	25.78	6.86	-63	1430	0	0.86		
1249	25.2	6.82	-67	1390	1.5	0.76		
1254	25.06	6.81	-70	1390	3.2	0.71		
1259	25.1	6.81	-72	1380	0	0.67		

### Comments/Conditions:

Samples were collected by Justin Kirk and Marvin Lewis

**NPDES/CCR:** Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-3	28.31	6.19	10'-20'	9/27/2023	1220	22.78

Drawdown: 6.31 depth to GW (ft)

Ferric Iron: 0.79 mg/L Ferrous Iron: 0.75 mg/L

Time	Temp round 1	pH round 1	Eh ORP	Spec Cond round 1	Turbidity	Dissolved Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1149	24.29	4.38	160	140	7.5	1.08
1154	24.58	4.1	140	137	21.5	0.5
1159	24.9	4.06	132	137	21.5	0.42
1204	24.94	4.02	128	136	16.3	0.52
1209	25.04	4	122	136	16.9	0.51
1214	25.14	3.99	118	136	13	0.49
1217	25.21	3.99	114	136	13	0.48
1220	25.25	3.99	111	136	13.3	0.48

Comments/Conditions:

Samples were collected by Zach McHenry and Brian Brase

Appendix C – Closure by Removal Certification

# Certification Statement Completion of Closure Winyah Generating Station, Closed Unit 2 Slurry Pond

The South Carolina Public Service Authority (Santee Cooper) is implementing the April 17, 2015, U.S. Environmental Protection Agency (U.S. EPA) Federal Coal Combustion Residuals (CCR) Rule (40 CFR §§257 and 261) for the Winyah Generating Station, located in Georgetown County, South Carolina.

In accordance with §257.102(f)(3), the owner or operator of the CCR unit must obtain a certification from a qualified professional engineer verifying that closure has been completed in accordance with the closure plan specified in §257.102(b) and the requirements of §257.102. §257.102(c) requires the owner or operator of the CCR unit to meet two criteria for determining closure completion when closing by removal:

- 1. When constituent concentrations throughout the CCR unit and any areas affected by releases from the CCR unit have been removed; and
- 2. Groundwater monitoring concentrations do not exceed the groundwater protection standards established pursuant to §257.95(h) for constituents listed in Appendix IV of 40 CFR Part 257.

Santee Cooper has completed CCR, non-CCR, and underlying soil removal for the above-referenced CCR unit in accordance with the closure plan specified in §257.102(b) and a state-approved closure plan. On November 9, 2017, a Santee Cooper qualified professional engineer (QPE) certified the completion of closure in accordance with state requirements. South Carolina's Department of Health and Environmental Control (SCDHEC) approved the completion of closure on February 5, 2018, on the basis of the QPE's certification and a site visit. Additionally, all Appendix IV constituent concentrations in associated groundwater monitoring wells are below the groundwater protection standards established under 40 CFR Part 257 as of the date of this certification. The groundwater monitoring data and statistical evaluations have been documented in the Annual Groundwater Monitoring and Corrective Action Reports published on Santee Cooper's public website.

#### **CERTIFICATION**

I, Aubree Decoteau, being a Registered Professional Engineer in the State of South Carolina, do hereby certify to the best of my knowledge, information, and belief, that the information contained herein is true and correct and has been prepared in accordance with generally accepted good engineering practices.

Signature

Date 7/10/2623