### 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT SOUTH ASH POND WINYAH GENERATING STATION

by Santee Cooper Moncks Corner, South Carolina

January 31, 2023

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### 1. Annual Groundwater Monitoring Report Summary

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

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

At the start of the current annual reporting period (January 1, 2022), the WGS South Ash Pond continued to operate under an assessment monitoring program in accordance with § 257.95, which was initiated on July 16, 2018. Statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards (GWPS) were not identified in any of the wells to date, including both the February-March and July 2022 sampling events. At the end of the current annual reporting period (December 31, 2022), the South Ash Pond remained in the assessment monitoring program. Because SSLs of Appendix IV constituents have not been identified, initiating, and completing an assessment of corrective measures, holding a public meeting, selecting a remedy, and initiating remedial activities were not required.

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. 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 South Ash Pond at WGS is an existing surface impoundment which is no longer receiving CCR or non-CCR waste streams and is undergoing closure by removal. As such, it is subject to the groundwater monitoring and corrective action requirements set forth by the EPA in 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Unit 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 the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report documents the activities completed in 2022 for the WGS South Ash Pond as required by the subject regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.95, is provided in this report.

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

Statistically significant increases (SSI) of Appendix III constituents were identified downgradient of South Ash Pond, and the notification was provided on January 15, 2018. As a result, an Assessment Monitoring program was initiated as required by  $\S$  257.94(e)(2). The notification was placed in the facility's operating record as required by 257.106(h)(4).

As required by § 257.93(h)(2), a statistical evaluation of the detected Appendix IV constituents was conducted. The results of this evaluation determined that the detected Appendix IV constituents were not present at statistically significant levels (SSLs) above the GWPS. Therefore, this unit remained in assessment monitoring.

For the assessment monitoring in 2022, the two sampling events are consistent with prior sampling results and confirm that SSLs of the detected Appendix IV constituents above GWPS are not present for this unit, so the unit remains in assessment monitoring.

#### 2.2.2 Key Actions Completed

The following key actions were completed in 2022:

- Prepared 2021 Annual Report including:
  - The Annual Report was placed in the facility's operating record pursuant to § 257.105(h)(1);
  - Pursuant to § 257.106(h)(1), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];

- Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)];
- Collected and analyzed two rounds of groundwater samples (February-March and July) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the concentrations in the facility's operating record as required by § 257.95(d)(1). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B;
- Completed statistical evaluations to determine if SSLs above GWPS were present for detected Appendix IV constituents in accordance with § 257.93(h)(2) (Appendix A);
- Installed new monitoring well WAP-28 and initiated collecting eight independent samples from
  to establish a statistically representative dataset prior to including in the statistical evaluations.
   WAP-28 will be added to the compliance groundwater monitoring network after collecting eight
  samples;
- Improved the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
  - Revising the groundwater elevation measurement procedure by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample;
  - The water surface elevations of unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer; and
- Evaluated turbidity trends in sitewide wells and identified wells to be redeveloped by a certified
  well driller to remove buildup of sediment fines on the well screens. Well redevelopment was
  completed in November 2022. Success of redevelopment will be monitored during 2023
  sampling events.

#### 2.2.3 Problems Encountered

There were multiple laboratory issues encountered in 2022 which contributed to longer than average turnaround time to receive results. Santee Cooper's internal lab, Analytical Services, is certified by the state of South Carolina (#08552) to run most of the analyses on Appendix III and Appendix IV constituents for groundwater except for mercury and radium 226/228. However, the inductively coupled plasma – mass spectrophotometer (ICP-MS) that analyzes the Appendix IV metals was broken and irreparable at the beginning of 2022. A new ICP-MS was ordered and delivered in April 2022 but was non-operational upon delivery. For the February sampling event, the samples were held at the Analytical Services' lab while repairs were attempted on the instrument. In the meantime, Analytical Services began to analyze the samples on the inductively coupled plasma – optical emission spectroscopy (ICP-OES) but was unable to achieve the appropriate reporting limits because it ran a different analytical method (EPA SW-846 6010D instead of 6020B). When initial repairs were unsuccessful on the ICP-MS, the samples were sent to a third-party laboratory certified by the state of South Carolina (Eurofins Savannah), approximately two months after sample collection. Eurofins Savannah returned the

analytical results approximately one month after receipt. In this results package, the non-detect reporting limits for monitoring well WAP-12 (Sample ID #AF27199) exceeded the GWPS for arsenic, beryllium, lead, and thallium. A duplicate sample for monitoring well WAP-12 was collected at the same time as the original (Sample ID #AF27200), and the analytical results demonstrate the non-detect values are less than the required GWPS.

For the July sampling event, the samples were again held at the Analytical Services' lab while ongoing repairs were attempted on the ICP-MS, which were ultimately unsuccessful. After approximately six weeks, Analytical Services sent the samples to a third-party lab that is certified by the state of South Carolina to analyze Appendix IV metals (Rogers & Callcott) because they had a quicker turnaround time than Eurofins Savannah. While Rogers & Callcott was able to analyze metals under 6010D, they also experienced technical issues with their ICP-MS and was unable to analyze metals under method 6020B. The remaining sample volumes were returned to Santee Cooper. Upon receipt, Analytical Services sent the samples to Eurofins Savannah to analyze the appropriate metals under method 6020B. Although Eurofins Savannah analyzed some metals for both the February and July samples, the lab obtained different reporting limits for the two sampling events. All non-detect reporting limits were below the required GWPS for the July samples.

Additionally, a preliminary result of 12.1 pCi/L combined radium 226/228 concentration was found in the February sample for monitoring well WAP-2. This result was reviewed on April 5, 2022, and was found to be atypical compared to historic data for not only this well, but the all downgradient monitoring wells for this unit. A subsequent confirmation sample was collected on April 13, 2022. This confirmation sample result of 4.15 pCi/L was used in the statistical evaluation. The 12.1 pCi/L value was not removed from the data set for WAP-2 and was flagged as an outlier in the Dixon's Test for Outliers statistical output.

#### 2.2.4 Actions to Resolve Problems

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

The July 2022 sample result for combined radium 226/228 in WAP -2 was 3.04 pCi/L, which is consistent with historical data so no further action is warranted at this time.

#### 2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2023 include the following:

- Prepare the 2022 annual report; place it in the record as required by § 257.105(h)(1), notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring as required by § 257.95.

- Complete semi-annual statistical analysis of Assessment Monitoring analytical data to determine if SSLs of the detected Appendix IV constituents are present above GWPS.
- Based on the findings of the statistical analysis, conduct an evaluation of alternate sources of Appendix IV parameters, determine the nature and extent of any SSLs identified, and prepare an assessment of corrective measures, if necessary and appropriate, as provided in § 257.95(g)(1) and § 257.95(g)(3).
- Continue collection of eight independent samples from new well WAP-28 to establish a
  statistically representative dataset prior to including in the statistical evaluations. Once eight
  samples have been collected, WAP-28 will be added to the compliance groundwater monitoring
  network.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
  - Increasing the sitewide synoptic water level measurements from two (2) to four (4) times per year (on a quarterly basis and in conjunction with the semi-annual groundwater monitoring events).
  - Continue collecting surface water elevations from unlined ponds, also on the same quarterly basis as the sitewide synoptic water level measurements.

#### 2.3 40 CFR § 257.90(e) - INFORMATION

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

#### 2.3.1 40 CFR § 257.90(e)(1)

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

As required by § 257.90(e)(1), a map showing the location of the CCR unit and associated upgradient and downgradient monitoring wells for South Ash Pond is presented as Figure 1.

#### 2.3.2 40 CFR § 257.90(e)(2)

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

WGS South Ash Pond closure operations have contributed to a dynamic environment in which historic radial groundwater flow direction may be altered on a permanent or temporary basis. Data from 2021 suggests this may have occurred, but the evaluation was inconclusive because water levels within the unlined pond's dikes were not measured. Groundwater elevations and pond water levels were measured in 2022 in conjunction with the semi-annual monitoring events to determine if flow direction has changed or if additional piezometers or monitoring wells are necessary. The water levels for 2022 interpreted a shift in groundwater flow direction from radial to a more westerly flow. This is likely due to ongoing dewatering and excavation activities associated with the closure by removal of the WGS South Pond. Due to this shift in groundwater flow direction, WAP-12 would become upgradient and WAP-2 would become side-gradient. Therefore, groundwater monitoring well WAP-28 was installed in

September 2022 to keep the monitoring network compliant with a minimum of three consistently downgradient wells at the waste boundary (WAP-3, WAP-13, and WAP-28). The well installation record is provided in Appendix C. After installation of WAP-28, collection of eight independent samples was initiated to establish a statistically representative dataset prior to including this new well in the statistical evaluations. WAP-28 will be added to the compliance groundwater monitoring network after collecting eight samples.

No groundwater monitoring wells were decommissioned in 2022.

#### 2.3.3 40 CFR § 257.90(e)(3)

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

In accordance with § 257.95(b) and § 257.95(d)(1), two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection (detection or assessment), and monitoring data obtained for the groundwater monitoring program for South Ash Pond is presented in Table 1 of this report. In addition, in accordance with § 257.95(d)(3), Table 1 includes the groundwater protection standards established under § 257.95(d)(2). Laboratory analytical data reports, along with field sampling forms, are provided in Appendix B to this report.

#### 2.3.4 40 CFR § 257.90(e)(4)

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

As required by § 257.93(h) a statistical analysis of the Appendix III constituents was completed January 15, 2018. Baseline analytical data collected from background monitoring wells WBW-1 and WAP-1 were combined to develop Upper Tolerance Limits (UTLs). The UTLs for each Appendix III constituent were compared to the analytical results for the downgradient monitoring wells (WAP-2, WAP-3, WAP-12, and WAP-13). Constituents with analytical results exceeding the UTLs were identified as SSIs over background for the respective Appendix III constituent. This statistical analysis determined that SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids were present downgradient of South Ash Pond. An evaluation of alternate sources was initiated and completed on April 16, 2018, as provided in § 257.94(e)(2). A source causing the SSI over background levels was not identified at that time, and to meet the requirements of 40 CFR § 257.95, an Assessment Monitoring program was initiated on July 16, 2018.

In assessment monitoring the sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the monitoring events in 2022 were compared to their respective GWPS (Appendix A). A sample concentration greater than the GWPS is considered to

represent an SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. As required by § 257.93(h)(2), the statistical evaluation of the detected Appendix IV constituents determined that SSLs above the GWPS were not present at South Ash Pond, consistent with previous results. Therefore, this unit will remain in assessment monitoring in 2023.

#### 2.3.5 40 CFR § 257.90(e)(5)

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

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.95 of the Rule. There are no applicable requirements from Sections § 257.96 through § 257.98.

Although the Rule does not contemplate a scenario in which additional monitoring wells are added to the compliance monitoring network for an existing surface impoundment, obtaining a baseline understanding of the groundwater elevations and constituent concentrations will follow a similar protocol to baseline sampling for background wells. Eight independent baseline samples will be collected from WAP-28 on a bimonthly schedule and will be analyzed for all Appendix III and Appendix IV constituents. At the conclusion of the eight bimonthly baseline sampling events, the data will be included in the statistical evaluations moving forward and will then be measured on a semiannual basis thereafter. Bimonthly is the preferred schedule to provide a better understanding of temporal and seasonal constituent fluctuations.

Finally, we improved the potentiometric surface characterization of the uppermost aquifer by collecting site-wide synoptic water levels and collecting water elevations in unlined ponds. We revised the groundwater elevation measurement procedure by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample. Additionally, the water surface elevations of unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer. During 2023, the pond water levels and synoptic groundwater elevation measurements will be collected on a quarterly basis to gain a better understanding of changes in groundwater elevations temporally given site changes induced by closure by removal activities. Groundwater flow rate and direction are provided as Figures 2 and 3 for each sampling event as specified in § 257.93(c).

### **TABLES**

**TABLE 1 - Summary of Analytical Results** Winyah Generating Station South Ash Pond Assessment Monitoring 2022

				1		А	ppendix I	II Const	ituents											A	ppendix IV	Consti	tuents											Field Para	meters			
Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number		Boron	Calcium	Chloride	Fluoride	Sulfate	Diss ok Solid	ved	Antimony	Arsenic	Bai	rium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead		Lithium	Mercury	Molybdenum	Radium 226	Radium 228	Radium 226/Radium 228 Combined Calculation	Selenium	Thallium	Depth to Groundwater	Groundwater Elevation		Specific Conductivity	•	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen
				Unit	ug/L	mq/L	mg/L		mq/L		L SU	ug/L	uq/L			uq/L		uq/L	uq/L			ug/L	ug/L	uq/L	ug/L	pCi/L	pCi/L	pCi/L	ug/L	ug/L	Feet (htoc) <sup>4</sup>	Feet (ms.l)4	SU	uS	С	mv	NTU	ppm
	<b></b>		1		EPA 6010D	EPA 6010D	EPA 300.0	EPA 300.	0 EPA 300	J SM 254	IOC .	EPA 6020B	EPA 6020B	EPA 6010D	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020 E	EPA 300.0	EPA 6010D	6020B	EPA 6010D	EPA 7470	EPA 6010D	EPA 903.1 Mod	d EPA 904.0	EPA 903.1 Mod	EPA 6020B	EPA 6020B	3. 5		1		, Y		<b></b> '	-
			2.0	GWPS/US EPA MCL/RSL		W2060	1000	4.00	180420	190000	20	25.0	10.0	20	100	4.00	5.00	100	6.00	4.00	15.0		40.0	2.00	100	52647	70EE	6.00	50.0	2.00	1200	7.00		525	522	200	440	
	Site Backgr	round Wells																					10.000				1											
WAP-1	Background	2/15/2022	2 AF27187		16.4	1.54	7.74	<0.10	0 21.	.3 4	7.5 4.58	<2.00	7.20		43.4	<0.500	<0.500	<5.00	1.31	<0.100		<2.50	<5.00	< 0.200	<5.00	1.2	7 0.870	4.17	10100	<1.00	6.79	22.3	4.58	81.0	20.9	35.0	0	0.340
WAP-1	Background		2 AF38156		26.0	2.85	11.8	<0.10	0 22.	:3 5	3.8 4.59	<5.00	5.00		68.0	<0.500	<0.500	<5.00	1.41	<0.100	<10.0		<10.0	<0.200	<10.0	1.8	7 3.17	5.04	<2.50	<1.00	7.66	21.8	3 4.59	109	27.6	41.0	3.80	0.320
WAP-1	total samples	5			2	2	2		2	2	2 2	2	2	2 0	2	2	2	2	2	2	1	1	2	2	2		2 2	2	2	2	2		2 2	2	2	2	2	2
WBW-1	Background	2850000	2 AF27221		15.4	2.20	F 77	<0.10	0 10	0 0	202 440	<5.00	<3.00	22.0		<0.500	<0.500	<5.00	0.00	an 100	-	<2.50	<5.00	<0.200	<5.00	0.21	0 2.07	3.17	<5.00	<1 ∩∩	10.4	24.0	3 4 16	64.0	10.1	385	5.90	7.24
WBW-1	Background		AF27221 2 AF38190	_	15.4 58.0	2.20	10.6	-0.10	n 60	24 4	293 4.16 3.8 4.31	<5.00	<3.00		44 N	<0.500	10.000	<5.00	3.16	<0.100 <0.100	<10.0	\$2,50	<10.0	<0.200		0.21	6 379	4.39	-0.00	<1.00	9 99	A 1 1	4.16	80.0	10.1 24 N	326	3.00	1.34
	total samples		A 30130		2	2.70	10.2	VO. 101	2	2	2 2	3.00	2.00	1	1	2	\0.30C	2.00	3,10	20.100	1 1	1	2	70.200	\$10.0	0.33	2 2	4.33	20	2	3.33	22.0	2 2	2	24.0	2	2	2.73
******	Local samples	21			-		-		-	_				3		-	•	-	<del>- </del>	-	•			-	-		-	-	-	-	-	·		2				_
	South Ash F	Pond Wells							+	+	1								l								1				1		1 1				$\overline{}$	$\overline{}$
WAP-2	Assessment		2 AF27188		2940	209	105	<0.10	0 29	36 14	418 6.64	<2.00	<3.00		149	<0.500	<0.500	≪5.00	< 0.500	<0.100		<2.50	7.32	<0.200	<5.00	8.9	6 3.18	12.1	<5.00	<1.00	9.63	14.	1 6.64	2020	22.8	-77.0	30.8	0.420
WAP-2	Confirmation	4/13/2022	2 AF31282				7				6.43				Ť.											3.1	4 1.01	4.15			12.9	10.8	6.43	2660	22.6	-55.0	63.6	0.870
WAP-2	Assessment	7/6/2022	2 AF38157		6900	346	439	<0.10	0 54	47 19	901 6.45	<5.00	21.0		270	<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		16.0	<0.200	<10.0	1.7	0 1.34	3.04	<2.50	<1.00	10.4	13.3	6.45	2250	26.5	-67.0	32.5	0.290
WAP-2	total samples	5	J. I.		2	2	2	!	2	2	2 3	2	2	0	2	2	2	2	2	2	1	1	2	2	2		3 3	3	2	2	3		3 3	3	3	3	3	3
																									l													ليسا
WAP-3 WAP-3	Assessment Assessment	2/21/2022 7 # 9 /002	2 AF27189 2 AF38158		1210	1/4	396	3 <0.10 3 <0.10	0 92	9 10	J62 5.89 J46 6.05	<2.00 <5.00	<3.00	1	104	<0.500	<0.500 <0.500	<5.00 <5.00	0.870	<0.100 <0.100	<10.0	<2.50	<5.00 13.0	<0.200	<10.0	3.8	7 2.69	6.56 2.75		<1.00 <1.00	7.06	12.4	6.05	1280	22.4	-5.00 -9.00		0.340
WAP-3	total samples		AF30150		1300	209	220	< U. IUI	2	2	2 2 2	₹5.00	<3.00		100	<0.500	NU.50L	9.00	0.070	QU.100	<10.0	1	13.0	<0.200	<10.0	1.0	2 2	2./5	<2.50 2	<1.00	7.03	11.8	2 2	1300	25.3	-9.00	15.3	0.420
iia s	total samples	•	9		-	15	-			-					-	-	-	-		-				-		1	-	•	-	-	-		-	-	-	-		
WAP-12	Assessment	3/1/2022	2 AF27199		1930	98.5	104	<0.10	n 26	ลก ค	645 4.58	<2.00	<30.0	31.9		<5.00	<5.00	<50.0	5.05	<0.100	<b>—</b>	<25.0	<5.00	<0.200	<5.00	0.62	0 3.56	4 18	<5.00	<10.0	9.77	21	1 4.58	764	22.7	130	2.90	0.350
WAP-12	Duplicate		2 AF27200		2050	105	112	<0.10	0 27	79 7	744	<2.00	<3.00	35.3		<0.500	<0.500	<5.00	4.55	<0.100		<2.50	<5.00	<0.200	<5.00	1.1	7 4.38	5.56	<5.00	<1.00	****		1		770			
WAP-12	Assessment	7/6/2022	2 AF38168		2000	130	130	<0.10	0 30	00 8	699 4.52	<5.00	<3.00	)	19.0	<0.500	<0.500	<5.00	1.14	<0.100	<10.0		<10.0	<0.200	<10.0	1.4	1 2.85	4.26	<2.50	<1.00	10.5	20.4	4 4.52	906	28.8	78.0	4.00	0.310
WAP-12	Duplicate		2 AF38169		2100	130	134	<0.10	0 29	96 8	693	<5.00	<3.00	)	20.0	<0.500	<0.500	≪5.00	1.23	<0.100	<10.0		<10.0	< 0.200	<10.0	1.1	4 2.98	4.12	<2.50	<1.00							'	
WAP-12	total samples	5			4	4	4	8	4	4	4 2	4	- 4	2	2	4	4	4	4	4	2	2	4	4	4		4 4	4	4	4	2		2 2	2	2	2	2	2
																							9					2								-	<b>└</b>	
WAP-13	Assessment .	3/1/2022	2 AF27201		4120	381	638	<0.10	0 13	34 27	796 6.39	<2.00	<3.00	263		<0.500		<5.00	0.560	<0.100	200000	<2.50	11.9	<0.200	<5.00	1.3	1 2.81	4.12	<5.00	<1.00	6.61	15.4	4 6.39	3220	20.9	-88.0	4.00	0.330
WAP-13	Assessment .	7/18/2022	2 AF38170		3900	430	607	<0.10	0 11	10 21	192 6.38	<5.00	6.00		270	<0.500	<0.500	≪5.00	0.530	<0.100	<10.0		<10.0	<0.200	<10.0	1.4	0 2.51	3.91	<2.50	<1.00	7.05	14.9	6.38	2820	26.4	-86.0	22.4	0.330
WAP-13	total samples	5			2	2	2	2	2	2	2 2	2	2	1	1	2	2	2	2	2	1	1	2	2	2		2 2	2	2	2	2		2 2	2	2	2	2	2
1010 000		10.01.0000							. 70		25.4.00					1.00	0.500			0.100		0.00	E 74					7.00		4.00			1.00	4540				0.000
WAP-28 WAP-28	Baseline Baseline	10/21/2022	2 AF47332 AF50606		3000	89.3 81.7	429			10	054 4.96 976 4.42	<5.00 <5.00	<3.00 <3.00		257	1.30	<0.500	<5.00 <5.00	19.7	0.430		3.60	5.71 <5.00	<0.200			2 4.30 8 4.41	7.82 9.29		<1.00	11.2	11.9	4.96	1510	23.8	115 219		
			AFOUBUB		2010	01.7	403	0,45	2	2	2 4.42	<5.00 2	<3.00	0 0	2/3	2.00	<u.50l< td=""><td>9.00</td><td>21.</td><td>0.450</td><td>0</td><td>3.70</td><td>&lt;5.00 2</td><td>&lt;0.200</td><td>9.00</td><td>4.0</td><td>2 2 2</td><td>9.29</td><td>5.00</td><td>&lt;1.00</td><td>11.0</td><td>23.1</td><td>9 4.42</td><td>15.4</td><td>20.3</td><td>219</td><td>0.600</td><td>0.360</td></u.50l<>	9.00	21.	0.450	0	3.70	<5.00 2	<0.200	9.00	4.0	2 2 2	9.29	5.00	<1.00	11.0	23.1	9 4.42	15.4	20.3	219	0.600	0.360
WAF-20	total samples	) I				2	1		4	4	2 2	L		1 0							0				1		4 4						4 Z	2	- 4			2

1. All groundwater samples collected from the monitoring wells were analyzed by South Carolina Certifical laboratories: Santee Cooper Analytical Services (Certification #0852), GEL Laboratories, LLC (Certification #10120), Eurofins Savannah (Certification #98001), Rogers & Callcot, Inc. (Certification #23105001), and Pace Analytical Services LLC (Certification #99030).

2. All Background & Assessment compliance wells have been sampled to meet § 257.94 and § 257.95.

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

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

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

		2022 Synoptic 1st Eve		3 101 010411	awater mo	2nd Ev	ent	
Well Name	Collection Date	Depth to Groundwater (ft btoc) <sup>2</sup>	Top of Casing Elevation (ft msl) <sup>2</sup>	GW Elevation (ft msl) <sup>2</sup>	Collection Date	Depth to Groundwater (ft btoc) <sup>2</sup>	Top of Casing Elevation (ft msl) <sup>2</sup>	GW Elevation (ft msl) <sup>2</sup>
WBW-1	2/15/2022	10.42	31.97	21.55	7/5/2022	10.03	31.97	21.94
PZ-1 <sup>3</sup>	2	2	226	40	7/5/2022	9.38	31.25	21.87
WAP-1	2/15/2022	6.79	29.44	22.65	7/5/2022	7.62	29.44	21.82
WAP-2	2/16/2022	8.89	23.69	14.80	7/5/2022	10.04	23.69	13.65
WAP-3	2/16/2022	6.91	19.43	12.52	7/5/2022	8.00	19.43	11.43
WAP-4	2/16/2022	7.14	20.34	13.20	7/5/2022	8.29	20.34	12.05
WAP-5 <sup>1</sup>	2/16/2022	8.62	26.25	17.63	7/5/2022	9.83	26.25	16.42
WAP-6 <sup>1</sup>	2/15/2022	8.57	30.98	22.41	7/5/2022	8.99	30.98	21.99
WAP-7	2/15/2022	9.52	29.94	20.42	7/5/2022	10.22	29.94	19.72
WAP-8 <sup>1</sup>	2/15/2022	10.42	30.38	19.96	7/5/2022	11.34	30.38	19.04
WAP-9	2/16/2022	9.96	28.04	18.08	7/5/2022	10.16	28.04	17.88
WAP-10	2/16/2022	5.20	26.11	20.91	7/5/2022	6.16	26.11	19.95
WAP-11 <sup>1</sup>	2/16/2022	4.93	9.55	4.62	7/5/2022	5.65	9.55	3.90
WAP-11 WAP-12	2/16/2022	9.21	30.84	21.63	7/5/2022	9.77	30.84	21.07
WAP-12	2/16/2022	6.63	21.97	15.34	7/5/2022	7.06	21.97	14.91
WAP-13	2/16/2022	4.38	14.69	10.31	7/5/2022	5.03	14.69	9.66
WAP-14A	2/16/2022	3.05	13.95	10.90	7/5/2022	4.00	13.95	9.95
WAP-14B	2/16/2022	5.09	9.23	4.14	7/5/2022	5.71	9.23	3.52
WAP-14C	2/16/2022	9.59	13.88	4.29	7/5/2022	10.93	13.88	2.95
WAP-15	2/16/2022	6.78	20.41	13.63	7/5/2022	7.85	20.41	12.56
WAP-16	2/16/2022	7.88	25.08	17.20	7/5/2022	9.77	25.08	15.31
WAP-17	2/16/2022	6.27	26.88	20.61	7/5/2022	7.00	26.88	19.88
WAP-18	2/15/2022	10.78	31.04	20.26	7/5/2022	11.04	31.04	20.00
WAP-19	2/15/2022	24.24	43.39	19.15	7/5/2022	22.37	43.39	21.02
WAP-20	2/15/2022	21.93	43.08	21.15	7/5/2022	22.30	43.08	20.78
WAP-21	2/15/2022	22.44	43.06	20.62	7/5/2022	23.16	43.06	19.90
WAP-22	2/15/2022	10.33	30.48	20.15	7/5/2022	10.51	30.48	19.97
WAP-23	2/15/2022	22.32	43.23	20.91	7/5/2022	23.37	43.23	19.86
WAP-24	2/16/2022	7.67	28.77	21.10	7/5/2022	9.13	28.77	19.64
WAP-25	2/15/2022	8.06	27.10	19.04	7/5/2022	8.84	27.10	18.26
WAP-26	2/15/2022	8.60	27.56	18.96	7/5/2022	9.32	27.56	18.24
WBW-A1-1	2/15/2022	6.24	28.14	21.90	7/5/2022	8.69	28.14	19.45
WLF-A1-1	2/15/2022	17.92	41.35	23.43	7/5/2022	18.25	41.35	23.10
WLF-A1-2	2/15/2022	6.77	29.21	22.44	7/5/2022	7.01	29.21	22.20
WLF-A1-3	2/15/2022	6.35	28.31	21.96	7/5/2022	6.99	28.31	21.32
WLF-A1-4	2/15/2022	6.25	28.24	21.99	7/5/2022	6.70	28.24	21.54
WLF-A1-5	2/15/2022	16.29	37.64	21.35	7/5/2022	16.44	37.64	21.20
WLF-A2-1	2/15/2022	11.84	30.04	18.20	7/5/2022	9.41	30.04	20.63
WLF-A2-2	2/15/2022	7.76	27.56	19.80	7/5/2022	7.28	27.56	20.28
WLF-A2-6	2/15/2022	14.41	35.14	20.73	7/5/2022	15.26	35.14	19.88
PSE-1 <sup>4</sup>	3/3/2022	-	-	20.11	7/6/2022	-	-	21.43
PSE-3 <sup>4</sup>	3/3/2022	=	1 <del>1</del> 7	18.03	7/6/2022	=	1 <del>-1</del> -2	17.93
PSE-5 <sup>4</sup>	3/3/2022	<u></u>	-	21.06	7/6/2022	-	-	19.27

Notes:

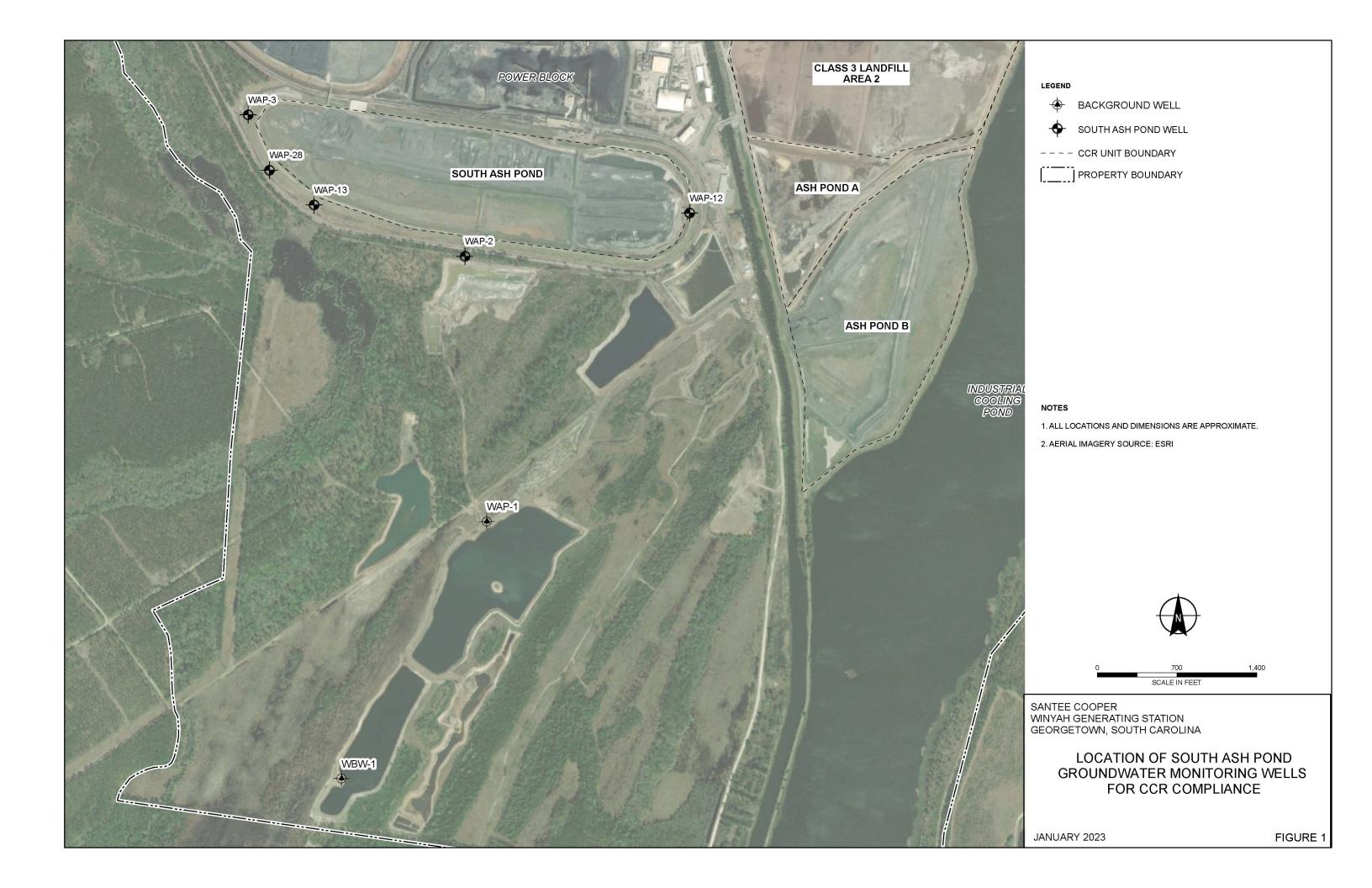
<sup>1.</sup> Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SC DHEC Industrial Wastewater Permit #SC0022471 and are not used for CCR constituent concentrations.

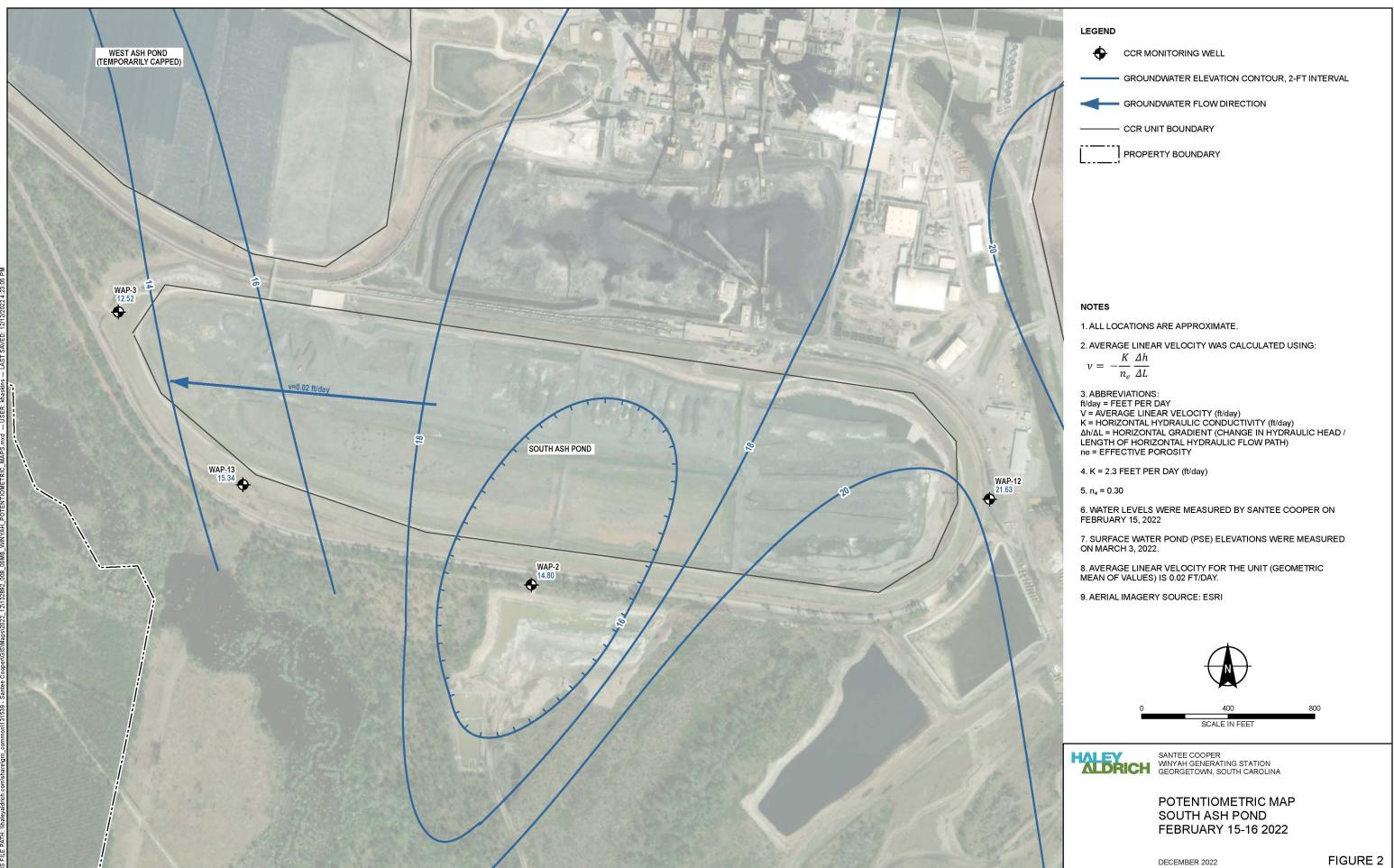
<sup>2.</sup> Depth to Groundwater is measured below the top of the casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to mean sea level (msl).

<sup>3.</sup> Was not sampled during the 1st event.

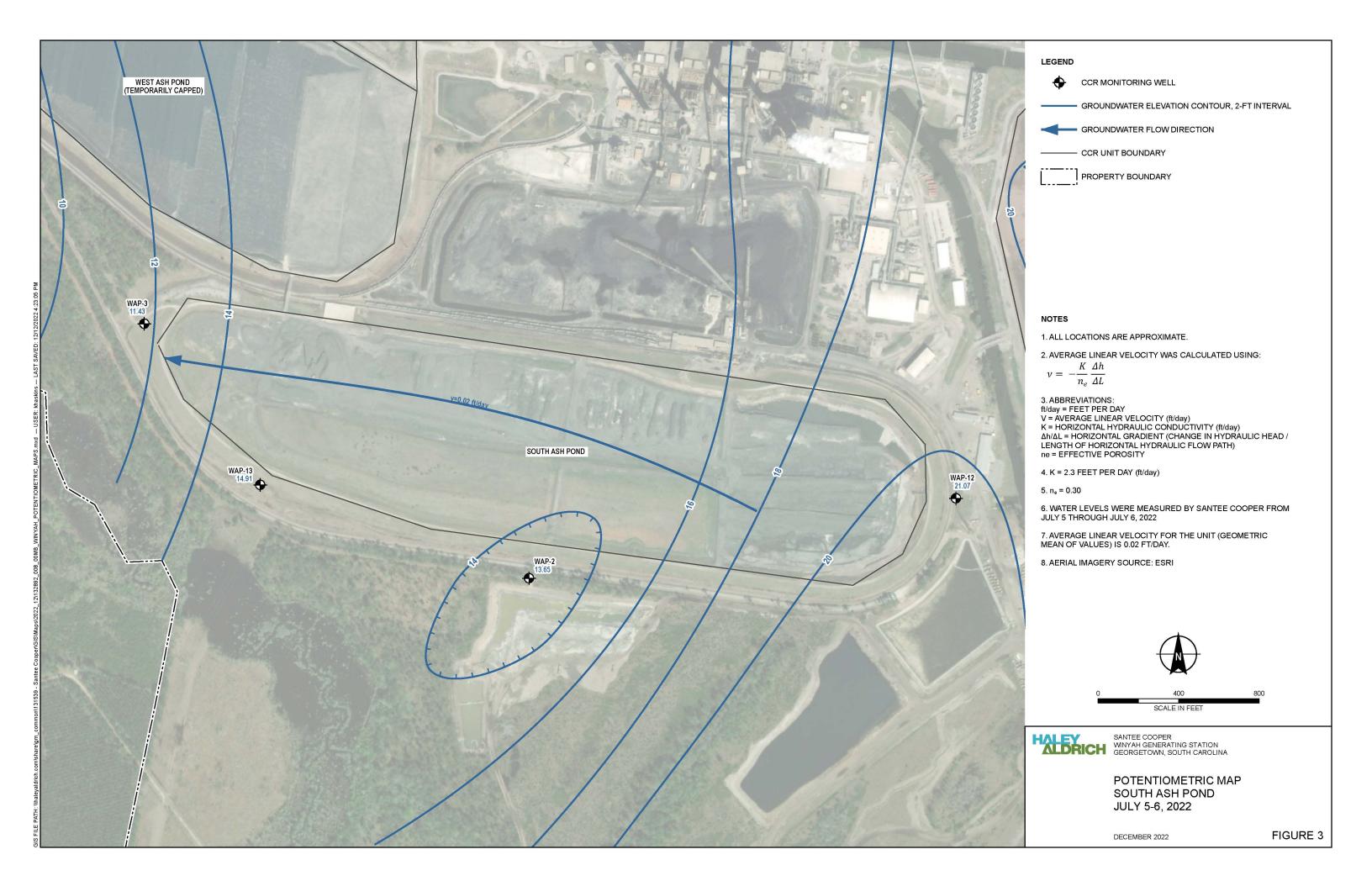
<sup>4.</sup> Pond surface elevations (PSE) were collected to aid in the potentiometric surface interpretation.

### **FIGURES**





DECEMBER 2022



Appendix A – Statistical Analysis



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

#### **TECHNICAL MEMORANDUM**

August 5, 2022 File No. 132892-015

SUBJECT: Statistical Evaluation of the February 2022 Semi-annual Groundwater Assessment

Monitoring Data, Winyah Generating Station, South Ash Pond

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 for the February 2022 semiannual assessment monitoring event for South Ash Pond at the Winyah Generating Station (WGS). Data for this groundwater sampling event were validated on June 7, 2022 by Santee Cooper.

#### **BACKGROUND**

The results of analytical testing performed on samples collected from the groundwater monitoring network referenced above were evaluated to determine whether there are statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS) of Appendix IV groundwater monitoring constituents.

Using interwell evaluations, data from the semiannual groundwater sampling event for the downgradient monitoring wells were compared to the GWPS established from the background dataset for the upgradient monitoring wells WAP-1 and WBW-1. The results of the groundwater assessment monitoring statistical evaluation are discussed below and are provided in Table I.

#### STATISTICAL EVALUATION

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

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

South Carolina Public Service Authority (Santee Cooper) August 5, 2022 Page 2

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

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

The UTLs were calculated from the background well dataset using Chemstat 6.3.0.0 software after testing for outlier sample results was completed to determine if any data would warrant removal from the dataset based on a likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using distribution plots for the downgradient sample data. 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. The background dataset will be updated again after the 2023 second semiannual sampling event, in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance).

#### **RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS**

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the February 2022 semiannual assessment monitoring event were compared to their respective GWPS (Table I). A sample concentration and LCL greater than the GWPS is considered to represent a SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for constituents in the downgradient wells. Consistent with previous results, SSLs were not identified.



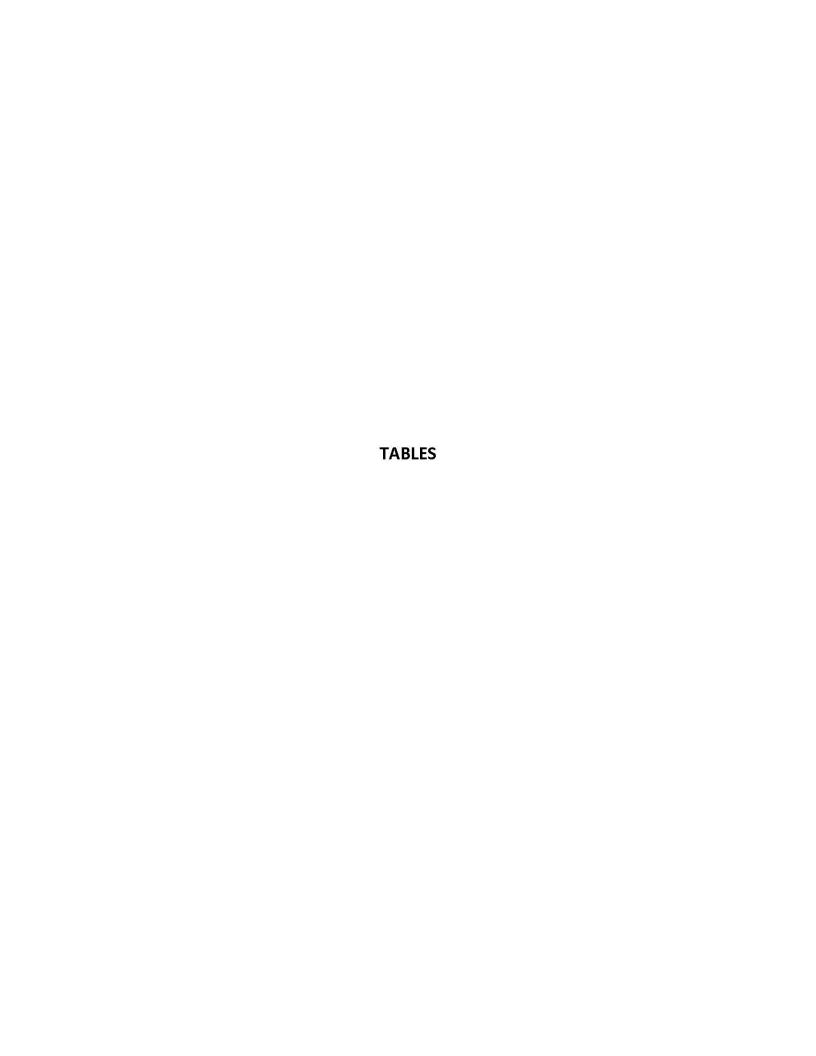
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Because the radium concentration was above the GWPS at WAP-03, the LCL was calculated and was below the GWPS. Therefore, the concentrations were not SSLs. These concentrations are attributed to the closure-by-removal construction activities that are currently underway. Short-term increases in the concentrations of Appendix IV constituents are not unexpected during closure, excavation, or construction activities. Anomalous concentrations should decrease once the closure is complete and equilibrium groundwater conditions are restored. The expected date for completing CCR removal for South Ash Pond is 2025. Groundwater trends will continue to be monitored in future sampling events.

#### Tables:

Table I – Assessment Monitoring Statistical Analysis Summary – February 2022 Groundwater Monitoring Event





Winyah South Ash Pond

Assessment Monitoring Statistical Analysis Summary
February 2022 Groundwater Monitoring Event

																					Inter-w	vell Analysis			T	GWPS	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well	February/March/April 2022 Concentration	Detect?	LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	at Individual	SSL
							CCR Appendix	-IV: Antimony, To	otal (mg/L)				ļ													Well	
WBW-1	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	eo.								
WAP-01	0/15	100%	0.002-0.025	0.00613	0.005	0.011		0.00002784	0.005276	0.8602	0.006	mg/L	N	0	1	NA	NA	NA	- NA				0.025		0.025		
WAP-02	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N			N		N	No
WAP-03	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N			N		N	No
WAP-12	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N			N		N	No
WAP-13	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N			N		N	No
							CCR Appendi	x-IV: Arsenic, To	tal (mg/L)																		
WBW-1	0/17	100%	0.003-0.005	0.00465	0.005	0.005	245 June 11 of Service 5.07	6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	NA				0.008		0.010		
WAP-01	2/19	89%	0.003-0.005	0.00508	0.005	0.00731	0.0083	0.000001312	0.001145	0.2255	0.01	mg/L	N	0	0	Yes	No	NA	Non-parametric				31030				
WAP-02	0/18	100%	0.003-0.005	0.00467	0.005	0.005		5.882E-07	0.000767	0.1643	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
WAP-03	0/18	100%	0.003-0.005	0.00467	0.005	0.005		5.882E-07	0.000767	0.1643	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
WAP-12	5/14	64%	0.003-0.03	0.00706	0.005	0.01583	0.0082	0.00004482	0.006695	0.9487	0.01	mg/L	N	0	1	Yes	No	Increasing	Non-parametric	0.030	N			Y	_	Y	No
WAP-13	2/14	86%	0.003-0.005	0.00495	0.005	0.006855	0.0103	0.000003081	0.001755	0.3546	0.01	mg/L	Y	1	0	Yes	No	Stable	Non-parametric	0.003	N			N		N	No
M/DIA/ 1	47/47	00/	224	0.0130	0.0147	0.02200	The second second second	x-IV: Barium, Tot		0.3232	_		NI.		0	Vac	NIw	Chalela	NI - we - I								
WBW-1 WAP-01	17/17	0%	-	0.0139	0.0147 0.0353	0.02298 0.0589	0.0237	0.00002015 0.0005335	0.004489 0.0231	0.3232	2	mg/L	N	0	0	Yes	No	Stable	Normal				0.094		2.000		
WAP-01	19/19 19/19	0%	-	0.303	0.311	0.4189	0.436	0.008815	0.0231	0.3097	2	mg/L	N.	0	0	No Yes	No No	Increasing Stable	Normal Non-parametric	0.149	V			V	4	N	No
WAP-02	19/19	0%	-	0.0782	0.0771	0.1246	0.450	0.00107	0.03271	0.4185	2	mg/L mg/L	N	0	0	No	No	Stable	Normal	0.149	V			V	-	N	No
WAP-12	17/17	0%	_	0.0392	0.036	0.05646	0.0627	0.00107	0.01324	0.3381	2	mg/L	N N	0	0	No	No	Decreasing	Normal	0.032	V			N	-	N	No
WAP-13	17/17	0%	-	0.264	0.263	0.324	0.34	0.001165	0.03413	0.1295	2	mg/L	N	0	0	Yes	No	Stable	Normal	0.263	v			Y		N	No
332.3	17/17	5,70			0.200			-IV: Beryllium, To		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	6/ =				1.52	33.55	380 3030 800 530	13371133	0.203							
WBW-1	0/15	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	O	NA	NA	NA									
WAP-01	0/15	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	- NA				0.0005		0.004		
WAP-02	0/13	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	О	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-03	0/13	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-12	1/13	92%	0.0005-0.005	0.000858	0.0005	0.00239	0.00065	0.000001551	0.001245	1.452	0.004	mg/L	N	0	1	Yes	No	NA	Non-parametric	0.0050	N			Υ		Y	No
WAP-13	0/13	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
							CCR Appendix	-IV: Cadmium, To	otal (mg/L)																		
WBW-1	0/16	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA				0.0005		0.005		
WAP-01	0/18	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	132.4				0.0003		0.003		
WAP-02	0/18	100%	0.0005-0.002	0.000583	0.0005	0.000725		0.00000125	0.0003536	0.6061	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N	-		N		N	No
WAP-03	0/18	100%	0.0005-0.002	100000000000000000000000000000000000000	0.0005	0.000725		0.00000125	0.0003536	0.6061	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-12	0/14	100%	0.0005-0.005	0.000929	0.0005	0.00305		0.000001533	0.001238	1.333	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0050	N			Y		N	No
WAP-13	0/14	100%	0.0005-0.002	0.000607	0.0005	0.001025		1.607E-07	0.0004009	0.6603	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
MIDIAL		0.407	0.005.0.005	2.225	0.005		-	-IV: Chromium, T		0.00000017	0.4	and the second second				21.6	I NA	216									
WBW-1	1/16	94%	0.005-0.005	0.005	0.005	0.005	0.005	7.228E-21	8.502E-11 5.647E-11	0.00000017	0.1	mg/L	N N	0	0	NA NA	NA NA	NA	NA NA				0.0050		0.100		
WAP-01 WAP-02	0/18 0/18	100%	0.005-0.005	0.005 0.00528	0.005	0.005 0.00575		3.189E-21 0.000001389	0.001179	1.129E-08 0.2233	0.1	mg/L	N	0	0	NA NA	NA NA	NA NA	NA	0.005	N			N		N	No
WAP-02 WAP-03	0/18	100%	0.005-0.01	0.00528	0.005	0.00575		0.000001389	0.001179	0.2233	0.1	mg/L mg/L	N	0	0	NA NA	NA NA	NA NA	NA NA	0.005	IN NI			N	-	N	No
WAP-12	0/14	100%	0.005-0.05	0.00857	0.005	0.024		0.000144	0.012	1.4	0.1	mg/L	N	0	0	NA.	NA.	NA.	NA NA	0.050	N			Y		N	No
WAP-13	0/14	100%	0.005-0.01	0.00536	0.005	0.00675		0.000001786	0.001336	0.2494	0.1	mg/L	N	0	0	NA.	NA.	NA.	NA	0.005	N			N		N	No
	5/1						CCR Append	ix-IV: Cobalt, Tot									A.M. V.	1	17	0.003	4.3						
WBW-1	2/17	88%	0.0005	0.00107	0.0005	0.003516	0.00838	0.000003739	0.001934	1.808	0.006	mg/L	Y	1	О	No	No	Increasing									
WAP-01	4/17	76%	0.0005	0.000676	0.0005	0.00152	0.0016	1.465E-07	0.0003828	0.5659	0.006	mg/L	N	0	0	No	No	Increasing	Non-parametric				0.0023		0.006		
WAP-02	0/14	100%	0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA.	NA	0.0005	N			N		N	No
WAP-03	6/14	57%	0.0005	0.000837	0.0005	0.002045	0.0025	3.638E-07	0.0006032	0.7207	0.006	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.0010	Y			N		N	No
WAP-12	5/14	64%	0.0005	0.000927	0.0005	0.002743	0.00505	0.00000148	0.001216	1.312	0.006	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	0.0051	Y			Y		N	No
WAP-13	8/14	43%	0.0005	0.000608	0.00057	0.0009085	0.00111	0.000000028	0.0001673	0.2753	0.006	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.0006	Υ			N		N	No
							CCR Appe	ndix-IV: Fluoride	(mg/L)																		
WBW-1	1/18	94%	0.1-0.1	0.1	0.1	0.1	0.1	1.633E-18	1.278E-09	1.278E-08	4	mg/L	N	0	0	No	No	NA	Non-parametric				0.140		4.00		
WAP-01	2/18	89%	0.1-0.1	0.104	0.1	0.1315	0.14	0.000131	0.01145	0.1102	4	mg/L	N	0	0	No	No	NA	- Hon-parametric				0.140		7.00		
WAP-02	1/18	94%	0.1-0.1	0.102	0.1	0.106	0.14	0.00008889	0.009428	0.09223	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N			N		N	No
WAP-03	11/18	39%	0.1-0.1	0.135	0.115	0.2115	0.22	0.001791	0.04232	0.3135	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N			N		N	No
WAP-12	1/18	94%	0.1-0.1	0.103	0.1	0.109	0.16	0.0002	0.01414	0.1369	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N			N		N	No
WAP-13	4/18	78%	0.1-0.1	0.116	0.1	0.2015	0.21	0.00126	0.0355	0.3058	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N			N		N	No

## Winyah South Ash Pond Assessment Monitoring Statistical Analysis Summary February 2022 Groundwater Monitoring Event

																					Inter-w	ell Analysis				GWPS	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well	February/March/April 2022 Concentration	Detect?	LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	2T	
							CCR Appen	dix-IV: Lead, Tota	l (mg/L)																		
WBW-1	0/16	100%	0.001-0.01	0.00184	0.001	0.004375		0.000005091	0.002256	1.224	0.015	mg/L	N	0	0	NA	NA	NA	Non-parametric				0.0100		0.015		
WAP-01	4/18	78%	0.001-0.01	0.00202	0.001	0.005376	0.00456	0.000004846	0.002201	1.09	0.015	mg/L	N	0	0	Yes	No	Stable	- Non-parametric				0.0100		0.013		
WAP-02	0/18	100%	0.001-0.0025	0.00131	0.001	0.0025		0.000000357	0.0005975	0.4577	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
WAP-03	0/18	100%	0.001-0.0025	0.00131	0.001	0.0025		0.000000357	0.0005975	0.4577	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
WAP-12	0/14	100%	0.001-0.025	0.003	0.001	0.01037		0.00004042	0.006358	2.119	0.015	mg/L	N	0	1	NA	NA	NA	NA	0.025	N			Υ		Υ	No
WAP-13	0/14	100%	0.001-0.0025	0.00139	0.001	0.0025		4.299E-07	0.0006557	0.4708	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
							CCR Append	ix-IV: Lithium, Tot	al (mg/L)																		
WBW-1	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	Niem mannendale				0.012		0.040		
WAP-01	1/17	94%	0.005-0.01	0.0098	0.01	0.01032	0.0116	0.00000168	0.001296	0.1323	0.04	mg/L	N	0	0	Yes	No	NA	- Non-parametric				0.012		0.040		
WAP-02	5/14	64%	0.01-0.01	0.0102	0.01	0.0117	0.013	0.000001369	0.00117	0.1151	0.04	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.007	Υ			N		N	No
WAP-03	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.000001786	0.001336	0.1386	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-12	0/14	100%	0.005-0.05	0.0125	0.01	0.024		0.0001183	0.01088	0.87	0.04	mg/L	N	0	1	NA.	NA.	NA	NA	0.005	N			N		N	No
WAP-13	7/14	50%	0.01-0.01	0.0313	0.01095	0.138	0.151	0.002205	0.04696	1.498	0.04	mg/L	Y	2	0	Yes	No	Decreasing	Non-parametric	0.012	Υ			Y		N	No
							CCR Appendi	x-IV: Mercury, To	tal (mg/L)								h										
WBW-1	0/15	100%	0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA.	NA	614								
WAP-01	0/15	100%	0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA.	NA	NA NA				0.0002		0.0020		
WAP-02	0/13	100%	0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA.	NA.	NA	NA	0.0002	N			N	1	N	No
WAP-03	0/12	100%	0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA.	NA.	NA	NA	0.0002	N			N		N	No
WAP-12	0/13	100%	0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA.	NA	0.0002	N			N		N	No
WAP-13	0/12	100%	0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
	1					С	CR Appendix-I	V: Molybdenum,	Total (mg/L)																		
WBW-1	0/17	100%	0.005-0.05	0.0121	0.01	0.018		0.00009706	0.009852	0.817	0.1	mg/L	N	0	0	NA	NA	NA									
WAP-01	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA	- NA				0.050		0.10		
WAP-02	0/13	100%	0.005-0.01	0.00962	0.01	0.01		0.000001923	0.001387	0.1442	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-03	0/13	100%	0.005-0.01	0.00962	0.01	0.01		0.000001923	0.001387	0.1442	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-12	0/13	100%	0.005-0.01	0.00962	0.01	0.01		0.000001923	0.001387	0.1442	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-13	0/13	100%	0.005-0.01	0.00962	0.01	0.01		0.000001923	0.001387	0.1442	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
						AL.	CR Appendix-	IV: Radium-226 &		2000											-						
WBW-1	10/17	41%	0-4	2.93	4	4.298	4.33	2.45	1.565	0.5338	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric								
WAP-01	12/17	29%	4-4	3.45	4	5.786	5.97	2.527	1.59	0.4612	5	pCi/L	Y	3	0	No	No	Decreasing	Normal				5.97		6.0		
WAP-02	17/18	6%	4-4	6.81	6.56	9.04	12.1	3.25	1.803	0.2648	5	pCi/L	Υ	17	0	Yes	No	Stable	Normal	4.150	Υ			N		N	No
WAP-03	13/17	24%	4-4	3.51	4	5.024	6.56	2.282	1.511	0.4305	5	pCi/L	Υ	1	0	No	No	Stable	Normal	6.560	Y	2.869		N		N	No
WAP-12	17/17	0%	-	4.67	4.84	6.542	6.71	2.262	1.504	0.3221	5	pCi/L	Υ	7	0	No	No	Decreasing	Normal	4.180	Y	9-m-150-7-m-		N		N	No
WAP-13	14/17	18%	4-4	4.14	4	6.062	6.35	1.241	1.114	0.2694	5	pCi/L	Υ	3	0	No	No	Decreasing	Normal	4.120	Υ			N		N	No
	m.sams					1100		c-IV: Selenium, To												unt mat.						استوال	
WBW-1	0/16	100%	0.005-0.02	0.0109	0.01	0.02		0.00001406	0.00375	0.3429	0.05	mg/L	N	0	0	NA	NA	NA									
WAP-01	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000115	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA	- NA				0.020		0.050		
WAP-02	0/18	100%	0.005-0.02	0.0106	0.01	0.02		0.00001438	0.003792	0.3592	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-03	0/18	100%	0.005-0.02	0.0106	0.01	0.02		0.00001438	0.003792	0.3592	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-12	0/18	100%	0.005-0.02	0.0107	0.01	0.02		0.00001458	0.003732	0.4034	0.05	mg/L	N	0	0	NA.	NA.	NA.	NA NA	0.005	N			N		N	No
WAP-13	0/14	100%	0.005-0.02	0.0107	0.01	0.02		0.00001868	0.004322	0.4034	0.05	mg/L	N	0	0	NA.	NA.	NA.	NA NA	0.005	N			N		N	No
Carlotte and Company and Co	9/17			and the second of			CCR Appendi	x-IV: Thallium, To				6/ =				WARES.	S.M. C.		1980	0.003				**			
WBW-1	0/15	100%	0.001-0.001	0.001	0.001	0.001	ээл лурснаг	0	n	0	0.002	mg/L	N	0	0	NA.	NA.	NA	ï								
WAP-01	0/15	100%	0.0001-0.001	0.00094	0.001	0.001		0.000000054	0.0002324	0.2472	0.002	mg/L	N	0	0	NA NA	NA.	NA.	- NA				0.001		0.002		
WAP-01	0/13	100%	0.0001-0.001	0.00094	0.001	0.001		0.00000004	0.0002324	0.2472	0.002	mg/L	NI NI	0	0	NA.	NA NA	NA NA	NA	0.001	NI			N		M	No
WAP-02		100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N NI	0	0	NA NA	NA NA	NA NA	NA NA	0.001	N N			NI NI		IN.	No
WAP-03	0/13 0/13	100%	0.001-0.001	0.001	0.001	0.001		0.000006231	0.002496	1.475	0.002	mg/L	N N	0	1	NA NA	NA NA	NA NA	NA NA	0.010	N			Y		Y	No
		100%	0.001-0.001	0.00169	0.001	0.0046		0.000000231	0.002496	T'4\2	0.002		NI NI	0	0	NA NA	NA NA	NA NA	NA NA		2000			N		M	No
WAP-13	0/13	100%	0.001-0.001	0.001	0.001	0.001		U	U	U	0.002	mg/L	IN	U	U	IVA.	INA.	IVA	INA	0.001	N			IV.		IN	INO



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#### **TECHNICAL MEMORANDUM**

December 30, 2022 File No. 132892-015

SUBJECT: Statistical Evaluation of the Summer 2022 Semiannual Groundwater Assessment

Monitoring Data, Winyah Generating Station, South Ash 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 summer 2022 semiannual assessment monitoring event for the Winyah Generating Station (WGS) South Ash Pond. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

#### **BACKGROUND**

The WGS South Ash Pond ceased receipt of all CCR and non-CCR wastewater inflows prior to April 11, 2021. Closure by excavation and removal of CCR is currently underway.

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 from background wells.

#### STATISTICAL EVALUATION

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

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

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the assumed distribution of

South Carolina Public Service Authority (Santee Cooper) December 30, 2022 Page 2

background, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to development the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

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

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

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

#### **RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS**

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table I). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with previous results, SSLs were not identified.

Because arsenic was identified above the GWPS in WAP-02 the LCL was calculated, and the resulting concentration was not an SSL. The concentrations are attributed to the closure-by-removal construction activities currently underway. Concentrations should decrease once closure is complete and groundwater equilibrium is restored. The expected date for completing CCR removal for the South Ash Pond is 2025. Groundwater trends will continue to be monitored during future sampling events.

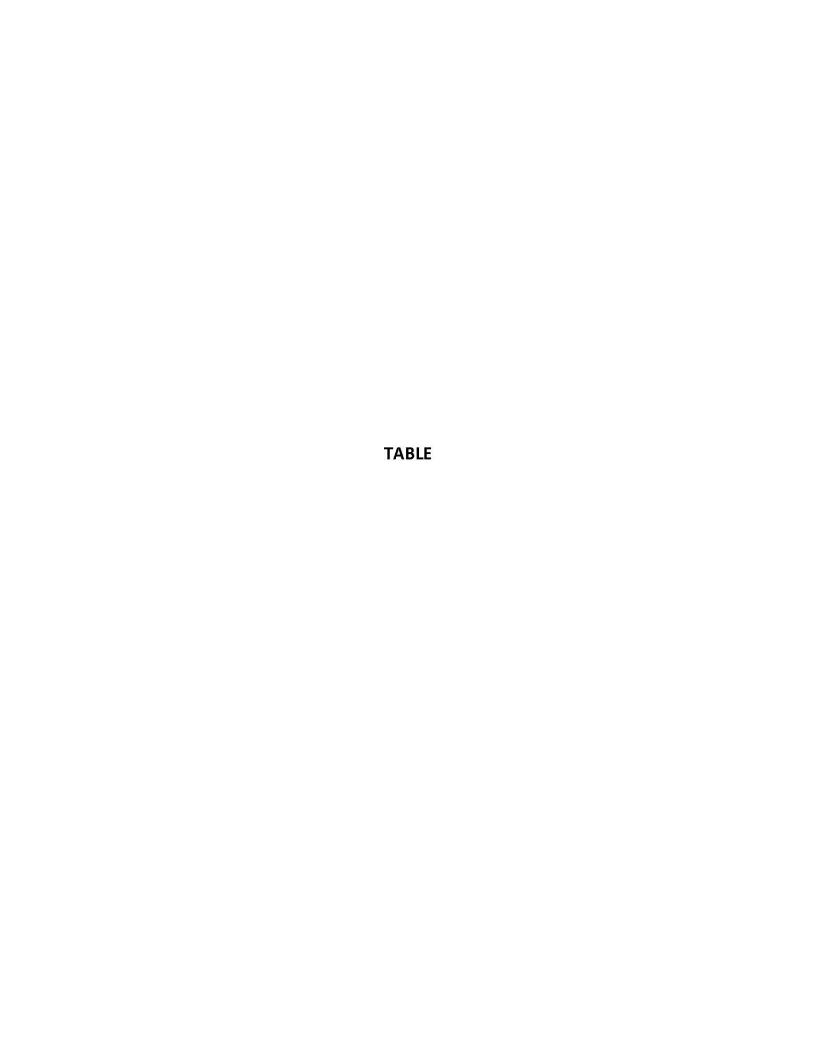
#### **Enclosures:**

Table I – WGS South Ash Pond Summer 2022 Semiannual Assessment Monitoring Data

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<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.



## TABLE I WGS SOUTH ASH POND SUMMER 2022 SEMIANNUAL ASSESSMENT MONITORING DATA

																			i		Inter-w	vell Analysis				GWPS	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non- Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well	July 2022 Concentration	Detect?	LCL	Upper Tolerance Limit	SSI	GWPS {Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
							CCR Appe	endix-IV: Antimo	1																		
WBW-1	0/16	100%	0.005-0.025	0.00625	0.005	0.01		0.000025	0.005	0.8	0.006	mg/L	N	0	1	NA	NA	NA	NA NA				0.025		0.025		
WAP-01 WAP-02	0/16 0/14	100%	0.002-0.025 0.002-0.025	0.00606 0.00621	0.005	0.01		0.00002606	0.005105 0.005466	0.8421 0.8795	0.006	mg/L mg/L	N N	0	1	NA NA	NA NA	NA NA	NA NA	0.005	N			N		N	No
WAP-03	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA NA	NA	NA	0.005	N		-	N		N	No
WAP-12	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N			N		N	No
WAP-13	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N			N		N	No
							CCR App	endix-IV: Arseni	c, Total (mg/L)																		
WBW-1	0/18	100%	0.003-0.005	0.00456	0.005	0.005		0.000000732	0.0008556	0.1878	0.01	mg/L	N	0	0	NA	NA	NA	NA				0.008		0.010		
WAP-01	3/20	85%	0.003-0.005	0.00507	0.005	0.007255	0.0083	0.000001243	0.001115	0.2197	0.01	mg/L	N	0	0	Yes	No	NA	Non-parametric					.,		· ·	T
WAP-02 WAP-03	1/19	95%	0.003-0.005 0.003-0.005	0.00553 0.00458	0.005 0.005	0.0066	0.021	0.0000146 7.018E-07	0.003821 0.0008377	0.6913 0.1829	0.01	mg/L	Y	0	0	Yes NA	No NA	NA NA	Non-parametric  NA	0.021	Y	0.005		N N		N	No No
WAP-03	0/19 5/15	100% 67%	0.003-0.003	0.00438	0.005	0.003	0.0082	0.00004271	0.0006536	0.1629	0.01	mg/L mg/L	N	0	1	Yes	No	Stable	Non-parametric	0.003	N N		-	N		N	No
WAP-13	3/15	80%	0.003-0.005	0.00502	0.005	0.00729	0.0103	0.000002935	0.001713	0.3412	0.01	mg/L	Y	1	0	Yes	No	Stable	Non-parametric	0.003	Y			N		N	No
							-	endix-IV: Bariun				,										1					
WBW-1	18/18	0%	8	0.0156	0.01485	0.02675	0.044	0.00006934	0.008327	0.5351	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.004		2,000		
WAP-01	20/20	0%	-	0.0357	0.0376	0.08165	0.094	0.0006193	0.02489	0.6978	2	mg/L	N	0	0	No	No	Increasing	Normal				0.094		2.000		
WAP-02	20/20	0%	-	0.301	0.3105	0.418	0.436	0.008406	0.09168	0.3041	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.261	Υ			Y		N	No
WAP-03	20/20	0%	-	0.0823	0.07755	0.1572	0.16	0.001349	0.03672	0.4464	2	mg/L	N	0	0	No	No	Stable	Normal	0.153	Y			Y		N	No
WAP-12 WAP-13	18/18	0%		0.0382	0.035	0.05607	0.0627	0.0001809	0.01345	0.352	2	mg/L	N	0	0	No	No	Decreasing	Normal	0.019	Y			N		N	No
WAP-13	18/18	0%		0.265	0.2665	0.323	0.34	0.001127 endix-IV: Berylliu	0.03356	0.1267	2	mg/L	IN .	U	U	Yes	No	Stable	Normal	0.270	Y			Y		IN.	No
WBW-1	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005	сск Арре	0	0	0	0.004	mg/L	N	0	0	NA	NA	NA									
WAP-01	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	- NA				0.0005		0.004		
WAP-02	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-03	0/14	100%	0.0005-0.0005		0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-12	1/14	93%	0.0005-0.005	0.000832	0.0005	0.002172	0.00065	0.000001441	0.0012	1.442	0.004	mg/L	N	0	1	No	No	NA	Non-parametric	0.0005	N			N		N	No
WAP-13	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005	CCB Anna	0 endix-IV: Cadmiu	0 m. Total (mg/l.)	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WBW-1	0/17	100%	0.0005-0.0005	0.0005	0.0005	0.0005	сск Арре	nuix-iv. Caumiu	() () () () () () () () () () () () () (	0	0.005	mg/L	N	0	0	NA	NA NA	NA	T								
WAP-01	0/19	100%	0.0005-0.0005		0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA NA	NA	- NA				0.0005		0.005		
WAP-02	0/19	100%	0.0005-0.002	0.000579	0.0005	0.00065		1.184E-07	0.0003441	0.5944	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-03	0/19	100%	0.0005-0.002	0.000579	0.0005	0.00065		1.184E-07	0.0003441	0.5944	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-12	0/15	100%	0.0005-0.005	0.0009	0.0005	0.0029		0.000001436	0.001198	1.331	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		_	N		N	No
WAP-13	0/15	100%	0.0005-0.002	0.0006	0.0005	0.00095	CCP Anna	0.00000015 ndix-IV: Chromit	0.0003873	0.6455	0.005	mg/L	N	0	0	NA NA	NA	NA	NA NA	0.0005	N			N		N	No
WBW-1	1/17	94%	0.005-0.005	0.005	0.005	0.005	0.005	3.388E-21	5.821E-11	1.164E-08	0.1	mg/L	N	0	0	No	No	NA									
WAP-01	0/19	100%	0.005-0.005	0.005	0.005	0.005	100000000000000000000000000000000000000	0	0	0	0.1	mg/L	N	0	0	NA	NA	NA	- Non-parametric				0.0050		0.100		
WAP-02	0/19	100%	0.005-0.01	0.00526	0.005	0.0055		0.000001316	0.001147	0.2179	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-03	0/19	100%	0.005-0.01	0.00526	0.005	0.0055		0.000001316	0.001147	0.2179	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-12	0/15	100%	0.005-0.05	0.00833	0.005	0.022		0.0001345 0.000001667	0.0116 0.001291	1.392	0.1	mg/L	N	0	0	NA	NA NA	NA	NA NA	0.005	N N			N		N	No
WAP-13	0/15	100%	0.005-0.01	0.00533	0.005	0.0065	CCR Ann	pendix-IV: Cobal		0.2421	0.1	mg/L	IN	, u	U	NA	NA	NA	NA 	0.005	N			IV		. N	No
WBW-1	3/18	83%	0.0005-0.0005	0.00118	0.0005	0.003934	0.00838	0.000003759		1.636	0.006	mg/L	Y	1	0	Yes	No	NA									
WAP-01	5/18	72%	0.0005-0.0005	0.000717	0.0005	0.001515	0.0016	1.678E-07	0.0004097	0.5712	0.006	mg/L	N	0	0	No	No	NA	<ul> <li>Non-parametric</li> </ul>				0.0023		0.006		
WAP-02	0/15	100%	0.0005-0.0005	Company Company Control of Control	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-03	7/15	-	0.0005-0.0005		0.0005	0.00201	0.0025	3.379E-07	0.0005813	0.6927	0.006	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.00087	Y			N		N	No
WAP-12 WAP-13	6/15 9/15	60% 40%	0.0005-0.0005 0.0005-0.0005		0.0005 0.00056	0.002565 0.000893	0.00505 0.00111	0.000001377 2.64E-08	0.001173 0.0001625	1.246 0.2697	0.006	mg/L mg/L	N N	0	0	Yes	No No	Increasing Stable	Non-parametric  Non-parametric	0.0005	N N			N N		N N	No No
AAVIT2	9/13	4070	0.0003-0.0003	0.000003	0.00030	0.000033		2.64E-06 Appendix-IV: Fluc	1.	0.2037	0.000	mg/L	.N	U	U	165	110	Stable	Hon-parametric:	0.0003	IN			IV.		- 19	140
WBW-1	1/19	95%	0.1-0.1	0.1	0.1	0.1	0.1	0	0	0	4	mg/L	N	0	0	No	No	NA	Nan				0.140		4.00		
WAP-01	2/19	89%	0.1-0.1	0.104	0.1	0.131	0.14	0.0001246	0.01116	0.1076	4	mg/L	N	0	0	No	No	NA	Non-parametric				0.140		4.00		
WAP-02	1/19	95%	0.1-0.1	0.102	0.1	0.104	0.14	0.00008421	0.009177	0.08987	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N			N		N	No
WAP-03	11/19	42%	0.1-0.1	0.133	0.11	0.211	0.22	0.001756	0.04191	0.3147	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N			N		N	No
WAP-12 WAP-13	1/19 4/19	95% 79%	0.1-0.1 0.1-0.1	0.103 0.115	0.1	0.106 0.201	0.16	0.0001895 0.001204	0.01376 0.0347	0.1334 0.3011	4	mg/L mg/L	N N	0	0	No No	No No	Stable Stable	Non-parametric  Non-parametric	0.10 0.10	N N			N N		N N	No No
	7,13	1.570	012 012	5,115	5.1	5,201		pendix-IV: Lead,		5.5011	×10	6/ -				1 100	.,	D.S. G. D. I.C.		0.10	13			111		-4:3	110
WBW-1	0/17	100%	0.001-0.01	0.00232	0.001	0.01		0.000008686	0.002947	1.268	0.015	mg/L	N	0	0	NA	NA	NA	Non naramatria				0.0100		0.015		
WAP-01	4/19	79%	0.001-0.01	0.00204	0.001	0.005104	0.00456	0.000004589	1	1.048	0.015	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.0100		0.015		
WAP-02	0/19	100%	0.001-0.0025	0.00137	0.001	0.0025		4.123E-07	0.0006421	0.4692	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
WAP-03	0/19	100%	0.001-0.0025	0.00137	0.001	0.0025		4.123E-07	0.0006421	0.4692	0.015	mg/L	N	0	0	NA NA	NA NA	NA	NA NA	0.010	N			N.		N	No
WAP-12 WAP-13	0/15 0/15	100%	0.001-0.025 0.001-0.01	0.00347 0.00197	0.001	0.0145 0.00475		0.0000408	0.006388	1.843 1.175	0.015 0.015	mg/L mg/L	N N	0		NA NA	NA NA	NA NA	NA NA	0.010 0.010	N N			N N		N	No No
MAYL-13	0/15	10070	0.001-0.01	0.0013/	0.001	0.00473	CCR App	endix-IV: Lithiur		1.1/3	0.013	ilig/ L	, is		U	1975	[144]	13/23	TAVA	0.010	I IN			13		18	NU
WBW-1	0/18	100%	0.005-0.01	0.00972	0.01	0.01	.,	0.000001389	III	0.1212	0.04	mg/L	N	0	0	NA	NA	NA	New watermark				0.013		0.040		
WAP-01	1/18	94%	0.005-0.01	0.00981	0.01	0.01024	0.0116	0.000001583	0.001258	0.1283	0.04	mg/L	N	0	0	Yes	No	NA	Non-parametric				0.012		0.040		
WAP-02	6/15	60%	0.01-0.01	0.0106	0.01	0.0139	0.016	0.000003541	-	0.1783	0.04	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.016	Y			Y		N	No
WAP-03	1/15	93%	0.005-0.01	0.00987	0.01	0.0109	0.013	0.00000241	0.001552	0.1573	0.04	mg/L	N	0	0	Yes	No	Stable		0.013	Y			Y		N	No
WAP-12 WAP-13	0/15 7/15	100%	0.005-0.05	0.0123	0.01	0.022	0.151	0.0001102	0.0105	0.8513	0.04	mg/L mg/l	N V	2	0	NA Ves	NA No	NA	NA Non-parametric	0.010	N N			N N		N	No No
VV AP-15	7/15	53%	0.01-0.01	0.0299	0.01	0.137	0.151	0.002078	0.04559	1.524	0.04	mg/L	T		U	Yes	No	Decreasing	Non-parametric	0.010	N			D/L		IN .	INO

HALEY & ALDRICH, INC.

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### TABLE I WGS SOUTH ASH POND SUMMER 2022 SEMIANNUAL ASSESSMENT MONITORING DATA

																			Ī		Inter-w	ell Analysis				GWPS	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non- Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well	July 2022 Concentration	Detect?	LCL	Upper Tolerance Limit	SSI	MCL/RSL or	exceedance above Background at Individual Well	SSL
							CCR Appe	endix-IV: Mercur	y, Total (mg/L)																Limit		
WBW-1	0/16	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	216				0.0000		0.0000		
WAP-01	0/16	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	- NA				0.0002		0.0020		
WAP-02	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002	İ	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
WAP-03	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
WAP-12	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
WAP-13	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002	İ	0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
							CCR Append	dix-IV: Molybder	um, Total (mg/L)																		
WBW-1	0/18	100%	0.005-0.05	0.0119	0.01	0.016		0.00009158	0.00957	0.8012	0.1	mg/L	N	0	0	NA	NA	NA	- NA				0.050		0.10		1
WAP-01	0/18	100%	0.005-0.01	0.00972	0.01	0.01		0.000001389	0.001179	0.1212	0.1	mg/L	N	0	0	NA	NA	NA	INA				0.050		0.10		
WAP-02	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.000001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
WAP-03	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.000001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
WAP-12	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.000001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			Ν		N	No
WAP-13	0/14	100%	0.005-0.01	0.00964	0.01	0.01		0.000001786	0.001336	0.1386	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
							CCR Appen	dix-IV: Radium-2	26 & 228 (pCi/L)																		
WBW-1	11/18	39%	0-4	3.01	4	4.339	4.39	2.424	1.557	0.5167	5	pCi/L	N	0	0	No	No	Stable	Non-parametric				5.97		5.97		
WAP-01	13/18	28%	4-4	3.54	4	5.774	5.97	2.519	1.587	0.449	5	pCi/L	Υ	4	0	No	No	Stable	Normal				5.57		5.57		
WAP-02	19/20	5%	4-4	6.49	6.25	8.68	12.1	3.918	1.979	0.3052	5	pCi/L	Υ	17	0	Yes	No	Stable	Normal	3.040	Y			N		N	No
WAP-03	14/18	22%	4-4	3.47	4	4.928	6.56	2.179	1.476	0.4259	5	pCi/L	Υ	1	0	No	No	Decreasing	Normal	2.750	Y			N		N	No
WAP-12	18/18	0%	-	4.65	4.62	6.531	6.71	2.138	1.462	0.3147	5	pCi/L	Y	7	0	No	No	Decreasing	Normal	4.260	Y			N		N	No
WAP-13	15/18	17%	4-4	4.12	4	6.044	6.35	1.171	1.082	0.2624	5	pCi/L	Υ	3	0	No	No	Decreasing	Normal	3.910	Y			N		N	No
							CCR Appe	ndix-IV: Seleniu	m, Total (mg/L)																		<u> </u>
WBW-1	0/17	100%	0.0025-0.02	0.0104	0.01	0.02		0.00001737	0.004168	0.3992	0.05	mg/L	N	0	0	NA	NA	NA	NA NA				0.020		0.050		
WAP-01	0/19	100%	0.0025-0.02	0.0104	0.01	0.02		0.00001546	0.003932	0.3783	0.05	mg/L	N	0	0	NA	NA	NA	1363				0.020		0.030		
WAP-02	0/19	100%	0.0025-0.02	0.0101	0.01	0.02		0.000017	0.004123	0.4069	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N			Ν		N	No
WAP-03	0/19	100%	0.0025-0.02	0.0101	0.01	0.02		0.000017	0.004123	0.4069	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N			Ν		N	No
WAP-12	0/15	100%	0.0025-0.02	0.0102	0.01	0.02		0.00002185	0.004674	0.4597	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N			N		N	No
WAP-13	0/15	100%	0.0025-0.02	0.0102	0.01	0.02		0.00002185	0.004674	0.4597	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N			N		N	No
							CCR Appe	endix-IV: Thalliu	n, Total (mg/L)																		
WBW-1	0/16	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA NA				0.001		0.002		
WAP-01	0/16	100%	0.0001-0.001	0.000944	0.001	0.001		5.063E-08	0.000225	0.2384	0.002	mg/L	N	0	0	NA	NA	NA	INA				0.001		0.002		
WAP-02	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No
WAP-03	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No
WAP-12	0/14	100%	0.001-0.01	0.00164	0.001	0.00415		0.000005786	0.002405	1.464	0.002	mg/L	N	0	1	NA	NA	NA	NA	0.001	N		X.	N		N	No
WAP-13	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No

HALEY & ALDRICH, INC.

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Appendix B – Laboratory Analytical Reports



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF27187

Location: GW Well WAP-1

Date: 02/15/2022

Sample Collector: BRT/BSB

Loc. Code WAP-1

Time: 12:34

			11116. 12.07		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	7.2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	43.4	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	< 0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	1.54	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	< 0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.31	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	16.4	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	< 0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	47.50	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	< 0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	7.74	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	21.3	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	1.27	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	0.870	pCi/L	03/09/2022	GEL	EPA 903.1 Mod EPA 904.0
Radium 226/228 Combined Calculation	2.14	pCi/L	03/09/2022	GEL	EPA 904.0 EPA 903.1 Mod
pH	4.58	SU	02/15/2022	BRT/BSB	LPA 903. I MOD

#### Comments:

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

Analysis Validated:

Lindal allians



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF27221

Location: GW Well WBW-1

Date: 02/15/2022

Sample Collector: BRT/BSB

Loc. Code WBW-1

Time: 11:24

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	22.8	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	2.28	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	8.38	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<5	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	15.4	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	292.5	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	5.77	mg/L	02/23/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	10.9	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	0.210	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.97	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.17	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
Н	4.16	SU	02/15/2022	BRT/BSB	

#### Comments:

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

Analysis Validated:

Linda Willians



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF27188

Location: GW Well WAP-2

Date: 02/21/2022

Sample Collector: BRT/BSB

Loc. Code WAP-2

Time: 10:42

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	149	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	209	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<2	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	2940	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	7.32	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	< 0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	1418	mg/L	03/04/2022	COAMESWA	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	105	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	296	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	8.96	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	3.18	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	12.1	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.64	SU	02/21/2022	BRT/BSB	

#### Comments:

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

Analysis Validated:

Lindalellas



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF27189

Location: GW Well WAP-3

Date: 02/21/2022

Sample Collector: BRT/BSB

Loc. Code WAP-3

**Time:** 12:05

Arsenic       <3       ug/L       05         Barium       104       ug/L       03         Beryllium       <0.5       ug/L       05         Calcium       174       mg/L       03         Cadmium       <0.5       ug/L       05         Cobalt       1.02       ug/L       05         Chromium       <5       ug/L       05         Lead       <2.5       ug/L       05         Antimony       <2       ug/L       05         Selenium       <5       ug/L       05         Thallium       <1       ug/L       05         Boron       1210       ug/L       03         Lithium       <5.00       ug/L       03         Molybdenum       <5.00       ug/L       03         Mercury       <0.20       ug/L       03	/15/2022 //25/2022 E //25/2022 E //25/2022 E //25/2022 E //25/2022 E //25/2022 E //25/2022 E	Analyst EUROFINS SAV SJHATCHE EUROFINS SAV SJHATCHE EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV	Method EPA 6020B EPA 6020B EPA 6010D EPA 6020B EPA 6020B EPA 6020B EPA 6020B EPA 6020B EPA 6020B
Barium       104       ug/L       03         Beryllium       <0.5	1/15/2022 1/25/2022 1/25/2022 1/25/2022 1/25/2022 1/25/2022 1/25/2022 1/25/2022 1/25/2022	SJHATCHE EUROFINS SAV SJHATCHE EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV	EPA 6010D EPA 6020B EPA 6010D EPA 6020B EPA 6020B EPA 6020B EPA 6020B EPA 6020B
Beryllium       <0.5	//25/2022 E //15/2022 E //25/2022 E //25/2022 E //25/2022 E //25/2022 E //25/2022 E //25/2022 E	EUROFINS SAV SJHATCHE EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV	EPA 6020B EPA 6010D EPA 6020B EPA 6020B EPA 6020B EPA 6020B
Calcium       174       mg/L       03.         Cadmium       <0.5	/15/2022 /25/2022 E /25/2022 E /25/2022 E /25/2022 E /25/2022 E /25/2022 E	SJHATCHE EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV	EPA 6010D EPA 6020B EPA 6020B EPA 6020B EPA 6020B EPA 6020B
Cadmium       <0.5	/25/2022 E /25/2022 E /25/2022 E /25/2022 E /25/2022 E /25/2022 E	EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV	EPA 6020B EPA 6020B EPA 6020B EPA 6020B EPA 6020B
Cobalt 1.02 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <2 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 05/Chromium <5 ug/L 03/Chromium ug/L 03/Chromium <5 ug/L 03/Chromium u	/25/2022 E /25/2022 E /25/2022 E /25/2022 E /25/2022 E	EUROFINS SAV EUROFINS SAV EUROFINS SAV EUROFINS SAV	EPA 6020B EPA 6020B EPA 6020B EPA 6020B
Chromium	/25/2022 E /25/2022 E /25/2022 E /25/2022 E	EUROFINS SAV EUROFINS SAV EUROFINS SAV	EPA 6020B EPA 6020B EPA 6020B
Lead	/25/2022 E /25/2022 E /25/2022 E	EUROFINS SAV EUROFINS SAV	EPA 6020B EPA 6020B
Antimony <2 ug/L 05/ Selenium <5 ug/L 05/ Thallium <1 ug/L 05/ Boron 1210 ug/L 03/ Lithium <5.00 ug/L 03/ Molybdenum <5.00 ug/L 03/ Mercury <0.20 ug/L 03/	/25/2022 E	EUROFINS SAV	EPA 6020B
Selenium         <5	/25/2022 E		
Thallium		EUROFINS SAV	EPA 6020B
Boron	10=10000		
Lithium       <5.00	/25/2022 E	EUROFINS SAV	EPA 6020B
Solution	/15/2022	SJHATCHE	EPA 6010D
Molybdenum         <5.00	/15/2022	SJHATCHE	EPA 6010D
Mercury <0.20 ug/L 03/	/15/2022	SJHATCHE	EPA 6010D
Total Dissabled Calida	/14/2022	PACE	EPA 7470
Total Dissolved Solids 1052 mg/L 03/	/04/2022	SJBROWN	SM 2540C
Threadala	/23/2022	KCWELLS	EPA 300.0
Oblanda	/23/2022	KCWELLS	EPA 300.0
Culfata	/23/2022	KCWELLS	EPA 300.0
Tedium 000	07/2022		PA 903.1 Mod
2-di 000	09/2022	GEL	
Podius 200/000 O. I. I.O. I. I.	09/2022		EPA 904.0
5.55 per 2	/21/2022	GEL E BRT/BSB	PA 903.1 Mod

#### Comments:

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

Analysis Validated:

Linda Willians



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF27199

Location: GW Well WAP-12

Date: 03/01/2022

Sample Collector: BRT/BSB

Loc. Code WAP-12

Time: 11:49

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<30	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	31.9	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	98.5	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	5.05	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<50	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<25	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<2	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<5	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<10	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	1930	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/15/2022	PACE	EPA 7470
Total Dissolved Solids	645.0	mg/L	03/09/2022	SJBROWN	SM 2540C
Fluoride	< 0.10	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	104	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	260	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Radium 226	0.620	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	3.56	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.18	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
рН	4.58	SU	03/01/2022	BRT/BSB	

#### Comments:

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

Analysis Validated:

Lindal Dellars



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF27200

Location: GW Well WAP-12

Date: 03/01/2022

Sample Collector: BRT/BSB

Loc. Code WAP-12

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Time: 11:54

Analysis	Duplicate		Tille, 11.04		
	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	35.3	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	105	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	4.55	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<2	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<5	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	2050	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	< 0.20	ug/L	03/15/2022	PACE	EPA 7470
Total Dissolved Solids	743.8	mg/L	03/09/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	112	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	279	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	1.17	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	4.38	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.56	pCi/L	03/31/2022	GEL	EPA 903.1 Mod

#### Comments:

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

Analysis Validated:

Lindal Wellians



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample # AF27201** 

Location: GW Well WAP-13

Date: 03/01/2022

Sample Collector: BRT/BSB

Loc. Code WAP-13

Time: 13:01

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Analysis	Result	Units	Test Date	Analyst	Method		
Arsenic	<3	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Barium	263	ug/L	04/07/2022	SJHATCHE	EPA 6010D		
Beryllium	< 0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B		
Calcium	381	mg/L	04/07/2022	SJHATCHE	EPA 6010D		
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B		
Cobalt	0.56	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B		
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B		
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B		
Antimony	<2	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Selenium	<5	ug/L	05/11/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Thallium	<1	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Boron	4120	ug/L	04/07/2022	SJHATCHE	EPA 6010D		
Lithium	11.9	ug/L	04/07/2022	SJHATCHE	EPA 6010D		
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D		
Mercury	<0.20	ug/L	03/15/2022	PACE	EPA 7470		
Total Dissolved Solids	2796	mg/L	03/09/2022	SJBROWN	SM 2540C		
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0		
Chloride	638	mg/L	03/05/2022	KCWELLS	EPA 300.0		
Sulfate	134	mg/L	03/05/2022	KCWELLS	EPA 300.0		
Radium 226	1.31	pCi/L	03/23/2022	GEL	EPA 903.1 Mod		
Radium 228	2.81	pCi/L	03/31/2022	GEL	EPA 904.0		
Radium 226/228 Combined Calculation	4.12	pCi/L	03/31/2022	GEL	EPA 903.1 Mod		
pH	6.39	SU	03/01/2022	BRT/BSB			

#### Comments:

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

Analysis Validated:

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### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Sample # AF31282 Location: GW Well WAP-2 Date: 04/13/2022 Sample Collector: BRT/BWM

Loc. Code WAP-2	Resample		Time: 10:23		
Analysis	Result	Units	Test Date	Analyst	Method
Radium 226	3.14	pCi/L	05/26/2022	GEL	EPA 903.1 Mod
Radium 228	1.01	pCi/L	05/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.15	pCi/L	05/31/2022	GEL	EPA 903.1 Mod
pH	6.43	SU	04/13/2022	BRT/BWM	

#### Comments:

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

Analysis Validated:

Validated date: 6/6/22



## SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF38156

Location: GW Well WAP-1

Date: 07/06/2022

Sample Collector: DEW/BM

Loc. Code WAP-1

Time: 11:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5	ug/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	68.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	2.850	mg/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	1.41	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	26.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	<b>EUROFINS SAV</b>	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	11.8	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	22.3	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Total Dissolved Solids	53.75	mg/L	07/11/2022	AMSOULE	SM 2540C
Radium 226	1.87	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	3.17	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.04	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
рН	4.59	SU	07/06/2022	DEW/BM	

#### 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:



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF38190

Location: GW Well WBW-1

Date: 07/06/2022

Sample Collector: DEW/BM

Loc. Code WBW-1

Time: 10:23

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	44.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	2.700	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	3.15	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	58.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	10.5	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	6.94	mg/L	07/11/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	43.75	mg/L	07/11/2022	AMSOULE	SM 2540C
Radium 226	0.596	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	3.79	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.39	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
pH	4.31	SU	07/15/2022	DEW/BM	

#### 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:



# SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF38157

Location: GW Well WAP-2

Date: 07/06/2022

Sample Collector: DEW/BM

Loc. Code WAP-2

Time: 12:51

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	21	ug/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	270	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	< 0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	346.0	mg/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6010D
Cadmium	< 0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	6900.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	16.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	<b>EUROFINS SAV</b>	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	439	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	547	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Total Dissolved Solids	1901	mg/L	07/11/2022	<b>AMSOULE</b>	SM 2540C
Radium 226	1.70	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	1.34	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.04	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
pH	6.45	SU	07/06/2022	DEW/BM	

#### 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:

Lindalellar



## SANTEE COOPER ANALYTICAL SERVICES **CERTIFICATE OF ANALYSIS** LAB CERTIFICATION #08552

**Sample # AF38158** Location: GW Well WAP-3 Date: 07/18/2022 Sample Collector: DEW/BM

Loc. Code WAP-3 Time: 12:01

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	160	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	209.0	mg/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	0.87	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	1300.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	13.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	<b>EUROFINS SAV</b>	EPA 6010D
Mercury	<0.2	ug/L	07/26/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/20/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	228	mg/L	07/20/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	133	mg/L	07/20/2022	<b>KCWELLS</b>	EPA 300.0
Total Dissolved Solids	1046	mg/L	07/22/2022	AMSOULE	SM 2540C
Radium 226	1.68	pCi/L	08/10/2022	GEL	EPA 903.1 Mod
Radium 228	1.07	pCi/L	08/18/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.75	pCi/L	08/18/2022	GEL	EPA 903.1 Mod
pH	6.05	SU	07/18/2022	DEW/BM	

#### 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:



## SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF38168

Location: GW Well WAP-12

Date: 07/06/2022

Sample Collector: DEW/BM

Loc. Code WAP-12

Time: 14:06

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	19.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	< 0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	130.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	1.14	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	2000.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	< 0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	< 0.10	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	130	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	300	mg/L	07/11/2022	<b>KCWELLS</b>	EPA 300.0
Total Dissolved Solids	698.8	mg/L	07/11/2022	<b>AMSOULE</b>	SM 2540C
Radium 226	1.41	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	2.85	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.26	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
pH	4.52	SU	07/06/2022	DEW/BM	

#### 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:

Elians



## SANTEE COOPER ANALYTICAL SERVICES **CERTIFICATE OF ANALYSIS** LAB CERTIFICATION #08552

**Sample #** AF38169

Location: GW Well WAP-12

Date: 07/06/2022

Sample Collector: DEW/BM

Loc. Code WAP-12

DUP

Time: 14:11

	DOP				
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	20.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	130.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	1.23	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	2100.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	< 0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	134	mg/L	07/11/2022	KCWELLS	EPA 300.0
Sulfate	296	mg/L	07/11/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	692.5	mg/L	07/11/2022	AMSOULE	SM 2540C
Radium 226	1.14	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	2.98	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.12	pCi/L	08/05/2022	GEL	EPA 903.1 Mod

#### Comments:

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

Analysis Validated:



## SANTEE COOPER ANALYTICAL SERVICES CERTIFICATE OF ANALYSIS LAB CERTIFICATION #08552

**Sample #** AF38170

Location: GW Well WAP-13

Date: 07/18/2022

Sample Collector: DEW/BM

Loc. Code WAP-13

Time: 13:12

Analysis	Result	Units	<b>Test Date</b>	Analyst	Method
Arsenic	6	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	270	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	430.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	0.53	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	3900.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/26/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/21/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	607	mg/L	07/21/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	110	mg/L	07/21/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2192	mg/L	07/22/2022	AMSOULE	SM 2540C
Radium 226	1.40	pCi/L	08/10/2022	GEL	EPA 903.1 Mod
Radium 228	2.51	pCi/L	08/18/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.91	pCi/L	08/18/2022	GEL	EPA 903.1 Mod
pΗ	6.38	SU	07/18/2022	DEW/BM	

#### 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:

27



### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

### LAB CERTIFICATION #08552

Sample # AF47332 Location: GW Well WAP-28 Date: 10/21/2022 Sample Collector: WJK/MDG

Loc. Code WAP-28 Time: 10:47

Loc. Code VVAP-28	AP-26 Time: 10.47				
Analysis	Result	Units	Test Date	A nalyst	Method
Arsenic	<3	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Barium	257	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Beryllium	1.3	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	89.30	mg/l	10/27/2022	<b>EUROFINS SAV</b>	EPA 6010D
Cadmium	<0.5	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	19.70	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	3.6	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Selenium	4.48	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Thallium	<1	ug/L	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Boron	3000	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Lithium	5.71	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	11/10/2022	<b>EUROFINS SAV</b>	EPA 7470
Iron	81800	ug/l	10/27/2022	<b>EUROFINS SAV</b>	EPA 6010D
Fluoride	0.43	mg/L	11/02/2022	KCWELLS	EPA 300.0
Chloride	429	mg/L	11/02/2022	KCWELLS	EPA 300.0
Sulfate	73.8	mg/L	11/02/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1054	mg/L	10/26/2022	SJBROWN	SM 2540C
Radium 226	3.52	pCi/L	11/13/2022	GEL	EPA 903.1 Mod
Radium 228	4.30	pCi/L	11/07/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	7.82	pCi/L	11/16/2022	GEL	EPA 903.1 Mod
pH	4.96	SU	10/21/2022	WUK/ML	
Copper	<5	ug/l	10/27/2022	<b>EUROFINS SAV</b>	EPA 6020B
Nickel	7.6	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Zinc	25	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B

#### Comments:

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

Analysis Validated:

Lindal Ullian

Validated date: 11/21/22



### SANTEE COOPER ANALYTICAL SERVICES

#### **CERTIFICATE OF ANALYSIS**

LAB CERTIFICATION #08552

Sample # AF50606

Location: GW Well WAP-28

Date: 12/06/2022

Sample Collector: WJK/BM

Loc. Code WAP-28

Time: 11:34

Loc. Code WAP-20	Ar-20 Time: 11:34				
Analysis Arsenic	Result <3	Units ug/l	Test Date 12/13/2022	Analyst EUROFINS SAV	Method
Barium	273	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B EPA 6020B
Beryllium	2.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Calcium	81.70	mg/l	12/13/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Cobalt	21.1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Lead	3.7	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Selenium	5.0	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Boron	2810	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	12/13/2022	EUROFINS SAV	EPA 7470
Iron	88800	ug/l	12/13/2022	EUROFINS SAV	EPA 6010D
Fluoride	0.45	mg/L	12/07/2022	KCWELLS	EPA 300.0
Chloride	403	mg/L	12/07/2022	KCWELLS	EPA 300.0
Sulfate	71.4	mg/L	12/07/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	976.2	mg/L	12/15/2022	SJBROWN	SM 2540C
Radium 226	4.88	pCi/L	12/19/2022	GEL	EPA 903.1 Mod
Radium 228	4.41	pCi/L	12/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	9.29	pCi/L	01/09/2023	GEL	EPA 903.1 Mod
pH	4.42	SU	12/06/2022	MDG	LI A 500.1 Wou
Copper	<5	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B
Nickel	8.4	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B
		-5.			LI 7 1 002 0 D

#### 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



## **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-214692-1

Client Project/Site: 125915/JM02.08.G01.1/36500

For:

South Carolina Public Service Authority Santee Cooper PO BOX 2946101 Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by: 5/27/2022 12:55:58 PM

Jerry Janier

Jerry Lanier, Project Manager I (912)250-0281

Jerry.Lanier@et.eurofinsus.com

·····LINKS ······

Review your project results through

**Have a Question?** 



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Laboratory Job ID: 680-214692-1

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Job ID: 680-214692-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-214692-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.3° C.

#### Metals

Method 6020B: The post digestion spike % recovery for multiple analytes associated with batch 180-398185 was outside of control limits. The associated sample is: AF27188 (680-214692-2).

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: 680-214692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-214692-1	AF27187	Water	02/15/22 12:34	04/28/22 10:30
680-214692-2	AF27188	Water	02/21/22 10:42	04/28/22 10:30
680-214692-3	AF27189	Water	02/21/22 12:05	04/28/22 10:30
680-214692-4	AF27190	Water	02/21/22 13:35	04/28/22 10:30
680-214692-5	AF27191	Water	02/17/22 11:28	04/28/22 10:30
680-214692-6	AF27192	Water	02/17/22 14:45	04/28/22 10:30
680-214692-7	AF27193	Water	02/17/22 10:05	04/28/22 10:30
680-214692-8	AF27194	Water	02/17/22 13:39	04/28/22 10:30
680-214692-9	AF27195	Water	02/22/22 11:15	04/28/22 10:30
680-214692-10	AF27196	Water	02/21/22 14:48	04/28/22 10:30
680-214692-11	AF27197	Water	02/21/22 14:53	04/28/22 10:30
680-214692-12	AF27198	Water	02/17/22 12:23	04/28/22 10:30

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## **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	TAL SAV
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL SAV

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

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

TAL 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: 680-214692-1

#### Qualifiers

#### Metals

Qualifier **Qualifier Description** 

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

MQL NC

ND NEG

POS

PQL

QC

RL RPD

TEF

TEQ

TNTC

RER

**PRES** 

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

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.1/36500 Client Sample ID: AF27187 Lab Sample ID: 680-214692-1 Result Qualifier Analyte RL MDL Unit Dil Fac D Method Prep Type 7.22 3.00 6020B Arsenic ug/L Total/NA ug/L Cobalt 1.31 0.500 6020B Total/NA Lab Sample ID: 680-214692-2 Client Sample ID: AF27188 No Detections. Client Sample ID: AF27189 Lab Sample ID: 680-214692-3 Analyte Result Qualifier RL MDL Unit Dil Fac D Method Prep Type Cobalt 1.02 0.500 ug/L 1 6020B Total/NA Client Sample ID: AF27190 Lab Sample ID: 680-214692-4 No Detections. Client Sample ID: AF27191 Lab Sample ID: 680-214692-5 No Detections. Client Sample ID: AF27192 Lab Sample ID: 680-214692-6 No Detections. Client Sample ID: AF27193 Lab Sample ID: 680-214692-7 MDL Unit Analyte Result Qualifier RL Dil Fac D Method Prep Type Arsenic 3.31 3.00 6020B Total/NA ug/L Cobalt 0.705 0.500 ug/L 6020B Total/NA Client Sample ID: AF27194 Lab Sample ID: 680-214692-8

Arsenic 48.7 3.00 ug/L 1 6020B Total/NA

RL

RL

3.00

MDL Unit

MDL Unit

ug/L

Dil Fac D Method

6020B

Method

Lab Sample ID: 680-214692-9

1

Dil Fac D

Result Qualifier

Result Qualifier

220

Client Sample ID: AF27196 Lab Sample ID: 680-214692-10

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 Dil Fac
 D
 Method
 Prep Type

 Arsenic
 6.41
 3.00
 ug/L
 1
 6020B
 Total/NA

Client Sample ID: AF27197 Lab Sample ID: 680-214692-11

AnalyteResultQualifierRLMDLUnitDil FacDMethodPrep TypeArsenic12.43.00ug/L16020BTotal/NA

Client Sample ID: AF27198 Lab Sample ID: 680-214692-12

No Detections.

Analyte

Arsenic

Analyte

Client Sample ID: AF27195

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Job ID: 680-214692-1

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Prep Type

Prep Type

Total/NA

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Client Sample ID: AF27187

Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-1 Date Collected: 02/15/22 12:34

Matrix: Water

Method: 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.22	·	3.00		ug/L		05/24/22 16:11	05/25/22 20:07	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:07	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:07	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:07	1
Cobalt	1.31		0.500		ug/L		05/24/22 16:11	05/25/22 20:07	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:07	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:07	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	Ū	5.00		ug/L		05/06/22 16:08	05/07/22 14:40	1
Antimony	2 00	Ū	2 00		ua/L		05/06/22 16:08	05/07/22 14:40	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Client Sample ID: AF27188

Lab Sample ID: 680-214692-2

Matrix: Water

Date Collected: 02/21/22 10:42 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	Ū	3.00		ug/L		05/24/22 16:11	05/25/22 20:28	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:28	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:28	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:28	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:28	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:28	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:28	1

-	<u></u>									
	Method: EPA 6020B - Metals (ICP/MS)									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 14:42	1
	Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 14:42	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Client Sample ID: AF27189

Lab Sample ID: 680-214692-3 Date Collected: 02/21/22 12:05

Matrix: Water

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICI	P/MS)								
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00 U	J	3.00		ug/L		05/24/22 16:11	05/25/22 20:30	1
Beryllium	0.500 U	J	0.500		ug/L		05/24/22 16:11	05/25/22 20:30	1
Cadmium	0.500 U	J	0.500		ug/L		05/24/22 16:11	05/25/22 20:30	1
Chromium	5.00 U	J	5.00		ug/L		05/24/22 16:11	05/25/22 20:30	1
Cobalt	1.02		0.500		ug/L		05/24/22 16:11	05/25/22 20:30	1
Lead	2.50 U	J	2.50		ug/L		05/24/22 16:11	05/25/22 20:30	1
Thallium	1.00 U	). J	1.00		ug/L		05/24/22 16:11	05/25/22 20:30	1

Method: EPA 6020B - Metal	s (ICP/MS)								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00 L	J	5.00		ug/L		05/06/22 16:08	05/07/22 15:25	1
Antimony	2.00 L	J	2.00		ug/L		05/06/22 16:08	05/07/22 15:25	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Lab Sample ID: 680-214692-4

Matrix: Water

Client Sample ID: AF27190

Date Collected: 02/21/22 13:35 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:33	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:33	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:33	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:33	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:33	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:33	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:33	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:33	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:33	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214692-5

Matrix: Water

Job ID: 680-214692-1

Client Sample ID: AF27191 Date Collected: 02/17/22 11:28

Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:10	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:10	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:10	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:10	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:10	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:35	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:35	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Client Sample ID: AF27192

Lab Sample ID: 680-214692-6

Matrix: Water

Date Collected: 02/17/22 14:45 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:12	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:12	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:12	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:12	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:12	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:38	1
Antimony	2 00	U	2 00		ua/L		05/06/22 16:08	05/07/22 15:38	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Lab Sample ID: 680-214692-7

Matrix: Water

Client Sample ID: AF27193

Date Collected: 02/17/22 10:05 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.31		3.00		ug/L		05/24/22 16:11	05/25/22 20:20	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:20	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:20	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:20	1
Cobalt	0.705		0.500		ug/L		05/24/22 16:11	05/25/22 20:20	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:20	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:20	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	Ū	5.00		ug/L		05/06/22 16:08	05/07/22 15:41	1
Antimony	2.00	U	2.00		ua/L		05/06/22 16:08	05/07/22 15:41	î

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Lab Sample ID: 680-214692-8

Matrix: Water

Client Sample ID: AF27194 Date Collected: 02/17/22 13:39

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	220		3.00		ug/L		05/24/22 16:11	05/25/22 20:23	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:23	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:23	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:23	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:23	1
Method: EPA 6020B - Metals (ICP/MS	•	Qualifier	RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:43	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:43	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Lab Sample ID: 680-214692-9

Matrix: Water

Client Sample ID: AF27195 Date Collected: 02/22/22 11:15

Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	48.7		3.00		ug/L		05/24/22 16:11	05/25/22 20:35	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:35	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:35	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:35	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:35	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:35	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:35	1

Method: EPA 6020B - Metals (ICP/MS)	S)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:54	1
Antimony	2.00	U	2.00		ua/L		05/06/22 16:08	05/07/22 15:54	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Client Sample ID: AF27196 Lab Sa

Lab Sample ID: 680-214692-10

Date Collected: 02/21/22 14:48

Date Received: 04/28/22 10:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.41		3.00		ug/L		05/24/22 16:11	05/25/22 20:38	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:38	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:38	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:38	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:38	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:38	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:38	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 16:04	1
Antimony	2.00	U	2.00		ua/L		05/06/22 16:08	05/07/22 16:04	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Lab Sample ID: 680-214692-11

Matrix: Water

Client Sample ID: AF27197

Date Collected: 02/21/22 14:53 Date Received: 04/28/22 10:30

Method: 6020B - Metals (IC Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.4		3.00		ug/L		05/24/22 16:11	05/25/22 20:41	1
Beryllium	0.500 l	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:41	1
Cadmium	0.500 l	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:41	1
Chromium	5.00 L	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:41	1
Cobalt	0.500 L	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:41	1
Lead	2.50 U	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:41	1
Thallium	1.00 l	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:41	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00	-	ug/L		05/06/22 16:08	05/07/22 16:15	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 16:15	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Lab Sample ID: 680-214692-12

Matrix: Water

Client Sample ID: AF27198
Date Collected: 02/17/22 12:23

Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:25	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:25	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:25	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:25	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:25	1

Method: EPA 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 16:26	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 16:26	1

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Job ID: 680-214692-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-722485/1-A Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA Prep Batch: 722485 Analysis Batch: 722803

	MB MB							
Analyte Re	sult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00 U	3.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Beryllium 0	.500 U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cadmium 0	.500 U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Chromium	5.00 U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cobalt 0	.500 U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Lead	2.50 U	2.50		ug/L		05/24/22 16:11	05/25/22 19:49	1
Thallium	1.00 U	1.00		ug/L		05/24/22 16:11	05/25/22 19:49	1

Lab Sample ID: LCS 680-722485/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Prep Batch: 722485

Analysis Batch: 722803

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits 100 97.59 80 - 120 Arsenic ug/L 98 50.0 49.07 80 - 120 Beryllium ug/L 98 Cadmium 50.0 49.44 99 80 - 120 ug/L Chromium 100 96.03 80 - 120 ug/L 96 Cobalt 50.0 51.43 80 - 120 ug/L 103 Lead 505 490.3 ug/L 80 - 120 Thallium 40.0 39.07 ug/L 98 80 - 120

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

Lab Sample ID: MB 180-397966/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 398185

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 14:35	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 14:35	1

Lab Sample ID: LCS 180-397966/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 398185							Prep Batch: 397966	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Selenium	1000	935.8	S	ug/L		94	80 - 120	
Antimony	250	247.2		ua/l		99	80 120	

Lab Sample ID: 680-214692-2 MS Client Sample ID: AF27188 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 398185									Prep Batch: 397966
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Selenium	5.00	U	1000	952.8	<del>√</del> 1	ug/L	- 10 <del>(1-1</del> 0 )	95	75 - 125
Antimony	2.00	U	250	247.5		ua/L		99	75 <sub>-</sub> 125

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Prep Batch: 397966

## **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

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

Lab Sample ID: 680-214692-2 MSD Client Sample ID: AF27188

Matrix: Water

Watrix: water									Prep	lype: lo	tal/NA
Analysis Batch: 398185									Prep I	Batch: 3	97966
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Selenium	5.00	U	1000	908.6		ug/L		91	75 - 125	5	20
Antimony	2.00	U	250	246.6		ug/L		99	75 - 125	0	20

## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

#### Metals

Prep Batch: 397966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-214692-1	AF27187	Total/NA	Water	3010A	
680-214692-2	AF27188	Total/NA	Water	3010A	
680-214692-3	AF27189	Total/NA	Water	3010A	
680-214692-4	AF27190	Total/NA	Water	3010A	
680-214692-5	AF27191	Total/NA	Water	3010A	
680-214692-6	AF27192	Total/NA	Water	3010A	
680-214692-7	AF27193	Total/NA	Water	3010A	
680-214692-8	AF27194	Total/NA	Water	3010A	
680-214692-9	AF27195	Total/NA	Water	3010A	
680-214692-10	AF27196	Total/NA	Water	3010A	
680-214692-11	AF27197	Total/NA	Water	3010A	
680-214692-12	AF27198	Total/NA	Water	3010A	
MB 180-397966/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-397966/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214692-2 MS	AF27188	Total/NA	Water	3010A	
680-214692-2 MSD	AF27188	Total/NA	Water	3010A	

Analysis Batch: 398185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	EPA 6020B	397966
680-214692-2	AF27188	Total/NA	Water	EPA 6020B	397966
680-214692-3	AF27189	Total/NA	Water	EPA 6020B	397966
680-214692-4	AF27190	Total/NA	Water	EPA 6020B	397966
680-214692-5	AF27191	Total/NA	Water	EPA 6020B	397966
680-214692-6	AF27192	Total/NA	Water	EPA 6020B	397966
680-214692-7	AF27193	Total/NA	Water	EPA 6020B	397966
680-214692-8	AF27194	Total/NA	Water	EPA 6020B	397966
680-214692-9	AF27195	Total/NA	Water	EPA 6020B	397966
680-214692-10	AF27196	Total/NA	Water	EPA 6020B	397966
680-214692-11	AF27197	Total/NA	Water	EPA 6020B	397966
680-214692-12	AF27198	Total/NA	Water	EPA 6020B	397966
MB 180-397966/1-A	Method Blank	Total/NA	Water	EPA 6020B	397966
LCS 180-397966/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	397966
680-214692-2 MS	AF27188	Total/NA	Water	EPA 6020B	397966
680-214692-2 MSD	AF27188	Total/NA	Water	EPA 6020B	397966

Prep Batch: 722485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	3010A	
680-214692-2	AF27188	Total/NA	Water	3010A	
680-214692-3	AF27189	Total/NA	Water	3010A	
680-214692-4	AF27190	Total/NA	Water	3010A	
680-214692-5	AF27191	Total/NA	Water	3010A	
680-214692-6	AF27192	Total/NA	Water	3010A	
680-214692-7	AF27193	Total/NA	Water	3010A	
680-214692-8	AF27194	Total/NA	Water	3010A	
680-214692-9	AF27195	Total/NA	Water	3010A	
680-214692-10	AF27196	Total/NA	Water	3010A	
680-214692-11	AF27197	Total/NA	Water	3010A	
680-214692-12	AF27198	Total/NA	Water	3010A	
MB 680-722485/1-A	Method Blank	Total/NA	Water	3010A	

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## **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

### **Metals (Continued)**

### Prep Batch: 722485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	3010A	

#### Analysis Batch: 722803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	6020B	722485
680-214692-2	AF27188	Total/NA	Water	6020B	722485
680-214692-3	AF27189	Total/NA	Water	6020B	722485
680-214692-4	AF27190	Total/NA	Water	6020B	722485
680-214692-5	AF27191	Total/NA	Water	6020B	722485
680-214692-6	AF27192	Total/NA	Water	6020B	722485
680-214692-7	AF27193	Total/NA	Water	6020B	722485
680-214692-8	AF27194	Total/NA	Water	6020B	722485
680-214692-9	AF27195	Total/NA	Water	6020B	722485
680-214692-10	AF27196	Total/NA	Water	6020B	722485
680-214692-11	AF27197	Total/NA	Water	6020B	722485
680-214692-12	AF27198	Total/NA	Water	6020B	722485
MB 680-722485/1-A	Method Blank	Total/NA	Water	6020B	722485
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	6020B	722485

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Job ID: 680-214692-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27187

Lab Sample ID: 680-214692-1 Date Collected: 02/15/22 12:34

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:07	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 14:40	RSK	TAL PIT

Client Sample ID: AF27188 Date Collected: 02/21/22 10:42

Lab Sample ID: 680-214692-2

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:28	ВЈВ	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 14:42	RSK	TAL PIT

Client Sample ID: AF27189 Date Collected: 02/21/22 12:05

Lab Sample ID: 680-214692-3

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:30	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:25	RSK	TAL PIT

Client Sample ID: AF27190

Lab Sample ID: 680-214692-4

Matrix: Water

Date Collected: 02/21/22 13:35 Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:33	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:33	RSK	TAL PIT

Client Sample ID: AF27191

Lab Sample ID: 680-214692-5

Matrix: Water

Date Collected: 02/17/22 11:28 Date Received: 04/28/22 10:30

7)	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:10	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:35	RSK	TAL PIT

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Job ID: 680-214692-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27192

Date Collected: 02/17/22 14:45 Date Received: 04/28/22 10:30 Lab Sample ID: 680-214692-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:12	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:38	RSK	TAL PIT

Client Sample ID: AF27193

Date Collected: 02/17/22 10:05

Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:20	ВЈВ	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:41	RSK	TAL PIT

Client Sample ID: AF27194

Date Collected: 02/17/22 13:39

Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-8

Matrix: Water

-1	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:23	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:43	RSK	TAL PIT

Client Sample ID: AF27195

Date Collected: 02/22/22 11:15

Date Received: 04/28/22 10:30

ab Sam	ole ID:	680-214692-9	
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:35	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:54	RSK	TAL PIT

Client Sample ID: AF27196

Date Collected: 02/21/22 14:48

Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A	18. 12		722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:38	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 16:04	RSK	TAL PIT

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#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

Client Sample ID: AF27197

Lab Sample ID: 680-214692-11

Matrix: Water

Date Collected: 02/21/22 14:53 Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:41	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 16:15	RSK	TAL PIT

Client Sample ID: AF27198

Lab Sample ID: 680-214692-12

Matrix: Water

Date Collected: 02/17/22 12:23 Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020B		1	722803	05/25/22 20:25	ВЈВ	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 16:26	RSK	TAL PIT

Laboratory References:

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

TAL 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 Moncks Corner, SC 29461 Phone (843)761-8000 Ext. 5148 Fax (843)761-4175

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA 125915 / JMØ2.08. GOI. 1/ 36500 @santeecooper.com Yes No **Analysis Group** Labworks ID # Sample Location/ Comments Bottle type: (Glass-G/Plastic-P) Preservative (see below) Matrix(see below) Collection Date (Internal use Description **Collection Time** Fotal # of container Sample Collector Method# 5,8 only) Grab (G) or Composite (C) . Reporting limit 0 Misc. sample info T. Any other notes B 88 BEB X P G GW 2 X 2/15/22 AF27187 WAP-1 1234 METHOD 6020 X WAP -2 88 2/21/22 1042 PLEASE SEND TO ST LOUIS FOR SE TO MEET RL X 89 1205 -3 X 90 -4 1335 91 -5 2/17/22 1128 92 -6 1445  $\neg$ 93 1005 X 680-214692 Chain of Custody 94 -8 1339 95 X - 9 1115 2/22/22 -10 1448 75 2/21/22 Sample Receiving (Internal Use Only)
TEMP (°C): 189 Initial: Relinquished by: Employee# Date Time Received by: Employee# Date Time Symoun 35594 4/27/22 1500 428-22 TVI MRO Correct pH: Yes No 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 ) Nutrients MISC. GWestini Coal Flyash □ Cu □ Sb DITOC □ Wallboard — O BTEX □ Ultimate O Ammonia D AI □ Se □Fe □ DOC 11 Napthalene Gyprum(all ☐ % Moisture below) □ As DΚ □ Sn □ THM/HAA ☐ TP/TPO4 □ Ash ☐ % Carbon O AIM
TOC
Distributed in Soluble Metals OVOC O NH3-N ☐ Sulfur  $\Box$  B □ Li □Sr ○ Mineral ☐ Oil & Grease ΩF. □ BTUs Analysis □ E. Coli □Ва □Mg □ Ti III CI 11 Total Coliform □ Volatile Matter O Sieve □ Be □ Mn □ NO2 □pH E Purity (CaSO4) E % Moisture □ CHN □ % Moisture □ Br ☐ Dissolved As Other Tests: □Са □Мо  $\square V$ ☐ Dissolved Fe □ NO3 Sulfites XRF Scan MEDES □ Cd □ Zn □Na □ Rad 226 **□ SO4** HGI DOIL& Greate G Chlorides ☐ Rad 228 Fineness □Hg □Со □Ni O As □ PCB Particulate Matter Particle Size HTSS □ Cr □Pb □ C<sub>t</sub>VI

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Customer	Email/	Report Recipie	ent:	Date R	esults Ne	eded b	y:		Pr	oject/	Task/	Unit #:		Rerun request	for ar	ıy fla <sub>l</sub>	ged C	ĮC
LCWILL	LIA	@santeec	ooper.com		'			125	915	/ JM	02.0	08.GØ].]	] 36500	Yes	No			
															A	nalysis	Group	
Labworks (Internal u. only)		Sample Location 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	Met     Rep     Mis     Any	Comment of the control of the contro		AS, Cd, Cr, Pb Se, Tl, Sb	1 01		
AF271	97	WAP - 10	DUP	2/21/22	1453	BET	١	P	G	GW	2	меннар	6020		X	Х		
	98	WAP -II		2/17/22		1	1	1	1	1	1	SEE ?	HEET FO	R RLS	×	盔		
		240											SAMPLE TO MEE	TO STLOUUS				
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Relinquisi	hed by:	Employee#	Date	Time	Receiv	ed by:	Er	nployee	#.	Date		Time	Sample Re	ceiving (Internal				
Amou	n	35594	4/21/22	15a	AL		*7	N	U	28.2	2	1030	TEMP (*C	D): <u>18.9   18</u> .	Initial	-		
Relinquisi		Employee#	Date	Time	Receiv	ed by:		nployee	,	Date		Time	Correct p	H: Yes No				
													Preservati	ve Lot#:				
Relinquish	ned by:	Employee#	Date	Time	Receiv	ed by:	Er	nployee	#	Date		Time						
													Date/Time	/Init for preserva	itive:			
	□ ME	TALS (all)	Mare	rients	MIS	· ·		Gu.	gsun			Fool		et 1				
□Ag	□ Cu	□Sb	L TO		□ BTEX	<u>Na.</u>		Wallbo		<u>.</u>	1 n	<u>Coal</u> Ultimate		Flyash Ammonia		Oll		
□ Al	□Fe	□Se	0 DO	Ç I	Napthale			Gyp	swin(al	a ·	1	☐ % Moist	ure 🗍	LOI			Qual. de tiongs	
□ As	□K.	□Sn	□ TP/ □ NH		☐ THM/HA	LA.		belo Al			1	□ Ash		% Carbon				
ΠВ	□ Li	□Sr	a of		□ Oil & Gr □ E. Coli	ease	l.		<b>C</b>			☐ Sulfur ☐ BTUs	1 4	Mineral Analysis	10		No.	
□ Ba	□Mg	and the second second	E CL		l l Total Col	iform			al meta ubia Ma			□ Volatile		Sieve	J D		Care	
□Be	□Mn		□ NO. □ Br	25452202477722447000	□ pH □ Dissolved	í As			ity (Cal doistun		O	□ CHN ther Tests:	П	% Moisture			(Garea	
□ Ca	□Мо		nno:	3	☐ Dissolved			Sul	files		1 = 2	KRF Scan		NPDES				
□ Cd	□Na	□ Zn	0.804		□ Rad 226 □ Rad 228			□ pH □ Chi				IGI ineness	j	Oil & Grease			e Ni Pe	
□ C₀	□Ni	□ Hg			□ PCB			O Par	icle Siz	c .		articulate Ma	itter 🗓	As	1			
□ Cr	□Pb	□ CrVI						Sulfur							100			

# **Chain of Custody Record**

Eurofins Pittsburgh													D.	eurofins		
301 Alpha Drive KIDC Park Pittsburgh PA 15238 Phone 412-963-7058 Fax: 412-963-2468	0	hain c	of Cus	Chain of Custody Record	ecc	ğ							9	2000	America	Environment Testing America
Client Information (Sub Contract Lab)	Sampler			Lab PM. Lanier	<sub>Lab PM.</sub> Lanier, Je <i>rr</i> y A	ry A			Carrie	Carrier Tracking No(s).	o(s).		COC No: 180-46	COC No: 180-462144 1		
Client Contact Shipping/Receiving	Phone:			E-Mail: Jerry	Lanie	@e	E-Mail: Jerry Lanıer@et.eurofinsus.com	om	State	State of Origin: South Carolina			Page: Page	Page: Page 1 of 2		
Company Eurofins Environment Testing Southeast,					Accred	itation	Accreditations Required (See note) NELAP - Florida State - So	outh "	Carolina, State Program	e Progran	3		Job #	Job #: 680-214692-1		
Address. 5102 LaRoche Avenue ,	Due Date Requested 5/4/2022	ă					,	Analysis	Requested	ed			Pres	Preservation Codes:	les: M - Hexane	
City Savannah	TAT Requested (days):	ys):									$\dashv$		B - NaOH C - Zn Ace	NaOH Zn Acetate	N - None O - AsNaO2	
State, Zip: GA, 31404	I I												n m 0	A ci	Q - Na2SO: R - Na2S2C	ũ
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #				)								# G 7	cid	S - H2SO4 T - TSP Dodecahydrate	yecahydrate
Email:	WO#				10000									J - Ice J - DI Water	V-MCAA W-pH 4-5	
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190											tala.	L-EDA	DA	Y - Trizma Z - other (specify)	ecify)
Site:	SSOW#:					-							Other	ד		
		Sample	Sample Type (C=comp.	Matrix (w=water S=solid,	ld Filtered form MS/N	0B/3010A 7					**************************************	al Norales	tal Number			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	n	=grab)   BT=TIBSUB, A=AIr)	-	1						J.	7'0	Special In	Special Instructions/Note:	/Note:
AF27187 (680-214692-1)	2/15/22	1234 Fastern		Water	_	×							-			
AF27188 (680-214692-2)	2/21/22	10 42 Eastern		Water		×							1			
AF27189 (680-214592-3)	2/21/22	12 05 Eastern		Water		×										
AF27190 (680-214692-4)	2/21/22	13 35 Eastern		Water	_	×							-			
AF27191 (680-214692-5)	2/17/22	11.28 Eastern		Water		×							-			
AF27192 (680-214692-6)	2/17/22	14 45 Eastern		Water		×										
AF27193 (680-214692-7)	2/17/22	10 05 Eastern		Water		×							3	And the second s		
AF27194 (680-214692-8)	2/17/22	13 39 Eastern		Water		×										
AF27195 (680-214692-9)	2/22/22	11 15 Eastern		Water		×							-			
Note: Since laboratory accreditations are subject to change. Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.	places the ownership or being analyzed the sa he signed Chain of Cu	if method, analy imples must be stody attesting t	te & accredita shipped back to said complic	tion compliance to the Eurofins ance to Eurofin	upon o Pittsbu s Pittsb	out sul rgh lai lurgh.	contract laborate oratory or other i	ories. This sa instructions w	ımple shipme III be provide	nt is forward d. Any chan	ed under ges to ac	chain-of creditatic	custody on status	This sample shipment is forwarded under chair-of-custody If the laboratory does not currently zions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsb	ny does not c ight to Eurofin	urrently is Pittsburgh
Possible Hazard Identification					S	]damp	Sample Disposal ( A fee	A fee may	be assess	assessed if sam Disposal By Lab	ples a	e retai	tained long Archive For	may be assessed if samples are retained longer than 1 month)  — Disposal By 1 ab  Archive For	month) Months	
Deliverable Requested I, II III, IV, Other (specify)	Primary Deliverable Rank: 1	able Rank: 1			ပ္သ	ecia	Special Instructions/QC		Requirements							
Empty Kit Relinquished by		Date:			Time.					Method of Shipment:	ipment					
Relinquished by	Date/Time:	27.6	700	Company	举	Rec ec	Received by Received by	7	Mure		Date/Time.	12	ha	6:30	Company	
Relinquished by:	Date/Time:			Company		Rec	Received by:			-	Date/Time:				Company	
Custody Seals Intact: Custody Seal No  Δ Yes Δ No						C 00	Cooler Temperature(s) °C		and Other Remarks:	6	12		2)	8	Var. 06/08	06/08/2021
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# **Chain of Custody Record**

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(5.8)	1231	°C and Other Remarks:	Cooler Temperature(s) °C and	Ω					Custody Seals Intact: Custody Seal No
Company	Date/Time:		Received by	70	Company			Date/Time:	Relinquished by
( , \$ O Company	Date/Time. 5/12-1	Motion	Received by:	12/1/20	Company	1700	R	SM	Relinquished by
. , o Company		Memod of 8	Received by		Company		Date.	Date/Lime:	Empty Kit Relinquished by:
		Requirements.	Special Instructions/QC Rec	upec		( 1	erable Kank	Primary Deliverable Rank. 1	Deliverable Requested I, II, III, IV, Other (specify)
retained longer than 1 month)  Archive For Months	□ as	may be assessed if samples  Disposal By Lab		Sam	1000 No. 100			) )	Possible Hazard Identification Unconfirmed
If the laborator	ded under chain-of-custoonges to accreditation state	This sample shipment is forwarded under chain-of-custody clions will be provided. Any changes to accreditation status.	ubcontract laboratories. Thi aboratory or other instruction	e upon out s ; Pittsburgh I ns Pittsburgh	Itation complianc ck to the Eurofins plicance to Eurofi	nalyte & accredi t be shipped bac ing to said comp	p of method, and samples must Custody attesti	laces the ownershi being analyzed, the le signed Chain of i	Note: Since laboratory accreditations are subject to change. Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories, maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instruation immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh
AND THE PROPERTY OF THE PROPER			×		Water		12:23 Eastern	2/17/22	AF27198 (680-214692-12)
and the second s			×		Water		14 53 Eastern	2/21/22	AF27197 (680-214692-11)
Annual Control of the	-		×		Water		14 48 Eastern	2/21/22	AF27196 (680-214692-10)
	X			X	100	Preserv		X	
Special Instructions/Note:	Total Numbe		6020673010A 7	Field Filtered Perform MS/II 6020B/3010A 7	Matrix (www.ater S=solid, O=waste/oll, BT=Tissue, A=Air)	Sample Type (C=comp, G=grab)	Sample	Sample Date	Sample Identification - Client ID (Lab ID)
Other	T -	42-10	IOFIN	/ISD (			Section 1	ssow#:	Site:
			, wetai	es or				Project #: 68008190	Project Name 125915/JM02 08 G01 1/36500
J-DI Water W-pH 4-5				No)			7	WO#	Email:
cid	ΞΘ.			0)				PO #	Phone: 912-354-7858(Tel) 912-352-0165(Fax)
	7 10 0								State, Zlp: GA, 31404
B - NaOH O - AsNaO2 C - Zn Acetate D NaOAS	ဂ မာ :						(days)	TAT Requested (days):	City Savannah
Cod	Pre	is Requested	Analysis				sted	Due Date Requested 5/4/2022	Address. 5102 LaRoche Avenue ,
Job #: 680-214692-1		ote): South Carolina State Program	Accreditations Required (See note): NELAP - Florida State - South	Accreditation NELAP -					Company Eurofins Environment Testing Southeast,
Page: Page 2 of 2		State of Origin: South Carolina	E-Mail: Jerry Lanıer@et.eurofinsus.com	⊪ / Lanıer@	Е-Маі: Јеггу			Phone:	
180-462144 2		Carner Tracking No(s).		Lanier Jerry A	Lab PM. Lanier			Sampler	Client Information (Sub Contract Lab)
Renvironment Testing America			0.	ecor	Chain of Custody Record	of Cus	Chain		Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh PA 15238 Phone 412-963-7058 Fax: 412-963-2468



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# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-214692-1

Login Number: 214692 List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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.	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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# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-214692-1

Login Number: 214692
List Source: Eurofins Pittsburgh
List Number: 2
List Creation: 05/03/22 05:29 PM

Creator: Watson, Debbie

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214692-1

## **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	06-30-22
South Carolina	State	98001	06-30-22

## **Laboratory: Eurofins Pittsburgh**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
South Carolina	State	89014	05-19-22	

Eurofins Savannah

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March 17, 2022

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

RE: Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

### Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

· Pace Analytical Services - Asheville

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

Sincerely,

Tyriek Hooks tyriek.hooks@pacelabs.com

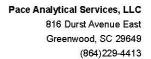
(704)875-9092 Project Manager

Tyrick Hooks

**Enclosures** 

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







### **CERTIFICATIONS**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648 North Carolina Drinking Water Certification #: 37712 North Carolina Wastewater Certification #: 40 South Carolina Laboratory ID: 99030 South Carolina Certification #: 99030001 Virginia/VELAP Certification #: 460222

### **REPORT OF LABORATORY ANALYSIS**



## **SAMPLE ANALYTE COUNT**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92591496001	AF27221	EPA 7470A	DBB1	1	PASI-A
92591496002	AF27187	EPA 7470A	DBB1	1	PASI-A
92591496003	AF27222	EPA 7470A	DBB1	1	PASI-A
92591496004	AF27193	EPA 7470A	DBB1	1	PASI-A
92591496005	AF27188	EPA 7470A	DBB1	1	PASI-A
92591496006	AF27189	EPA 7470A	DBB1	1	PASI-A
92591496007	AF27190	EPA 7470A	DBB1	1	PASI-A
92591496008	AF27196	EPA 7470A	DBB1	1	PASI-A
92591496009	AF27232	EPA 7470A	DBB1	1	PASI-A
92591496010	AF27233	EPA 7470A	DBB1	1	PASI-A
92591496011	AF27209	EPA 7470A	DBB1	1	PASI-A
92591496012	AF27210	EPA 7470A	DBB1	1	PASI-A
92591496013	AF27220	EPA 7470A	DBB1	1	PASI-A
92591496014	AF27207	EPA 7470A	DBB1	1	PASI-A
92591496015	AF27202	EPA 7470A	DBB1	1	PASI-A
92591496016	AF27203	EPA 7470A	DBB1	1	PASI-A
92591496017	AF27217	EPA 7470A	DBB1	1	PASI-A
92591496018	AF27195	EPA 7470A	DBB1	1	PASI-A
92591496019	AF27214	EPA 7470A	DBB1	1	PASI-A
92591496020	AF27212	EPA 7470A	DBB1	1	PASI-A
92591496021	AF27211	EPA 7470A	DBB1	1	PASI-A
92591496022	AF27229	EPA 7470A	DBB1	1	PASI-A
92591496023	AF27230	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

## **REPORT OF LABORATORY ANALYSIS**



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27221 Lab ID: 92591496001 Collected: 02/15/22 11:24 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:17 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27187 Lab ID: 92591496002 Collected: 02/15/22 12:34 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:23 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27222 Lab ID: 92591496003 Collected: 02/16/22 13:46 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:29 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27193 Lab ID: 92591496004 Collected: 02/17/22 10:05 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:31 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27188 Lab ID: 92591496005 Collected: 02/21/22 10:42 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:33 7439-97-6

### **REPORT OF LABORATORY ANALYSIS**



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27189 Lab ID: 92591496006 Collected: 02/21/22 12:05 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:36 7439-97-6

### **REPORT OF LABORATORY ANALYSIS**



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27190 Lab ID: 92591496007 Collected: 02/21/22 13:35 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:38 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27196 Lab ID: 92591496008 Collected: 02/21/22 14:48 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:40 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27232 Lab ID: 92591496009 Collected: 02/24/22 11:44 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:42 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

 Sample: AF27233
 Lab ID: 92591496010
 Collected: 02/24/22 11:49
 Received: 03/04/22 10:45
 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:44 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27209 Lab ID: 92591496011 Collected: 02/24/22 13:37 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:46 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27210 Lab ID: 92591496012 Collected: 02/24/22 13:42 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:48 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27220 Lab ID: 92591496013 Collected: 02/24/22 15:04 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:54 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27207 Lab ID: 92591496014 Collected: 02/28/22 10:29 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 13:56 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27202 Lab ID: 92591496015 Collected: 02/28/22 13:02 Received: 03/04/22 10:45 Matrix: Water CAS No. **Parameters** Results Units Report Limit DF Prepared Analyzed Qual 7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville ND ug/L 03/11/22 16:00 03/14/22 13:59 7439-97-6 D3 Mercury 1.0



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27203 Lab ID: 92591496016 Collected: 02/28/22 13:07 Received: 03/04/22 10:45 Matrix: Water CAS No. **Parameters** Results Units Report Limit DF Prepared Analyzed Qual 7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville ND ug/L 03/11/22 16:00 03/14/22 14:01 7439-97-6 D3 Mercury 1.0



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27217 Lab ID: 92591496017 Collected: 02/22/22 10:18 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 14:03 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27195 Lab ID: 92591496018 Collected: 02/22/22 11:15 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 14:05 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27214 Lab ID: 92591496019 Collected: 02/22/22 12:04 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 14:07 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27212 Lab ID: 92591496020 Collected: 02/22/22 15:14 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/14/22 14:09 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27211 Lab ID: 92591496021 Collected: 02/23/22 12:18 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/17/22 10:49 7439-97-6





Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27229 Lab ID: 92591496022 Collected: 02/24/22 10:27 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/17/22 10:55 7439-97-6

### **REPORT OF LABORATORY ANALYSIS**





Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Sample: AF27230 Lab ID: 92591496023 Collected: 02/24/22 10:33 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/17/22 10:57 7439-97-6



### **QUALITY CONTROL DATA**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

QC Batch: 683594 Analysis Method: EPA 7470A

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

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92591496001, 92591496002, 92591496003, 92591496004, 92591496005, 92591496006, 92591496007,

92591496008, 92591496009, 92591496010, 92591496011, 92591496012, 92591496013, 92591496014, 92591496015, 92591496016, 92591496017, 92591496018, 92591496019, 92591496020

METHOD BLANK: 3575639 Matrix: Water

Associated Lab Samples: 92591496001, 92591496002, 92591496003, 92591496004, 92591496005, 92591496006, 92591496007,

92591496008, 92591496009, 92591496010, 92591496011, 92591496012, 92591496013, 92591496014,

92591496015, 92591496016, 92591496017, 92591496018, 92591496019, 92591496020

Parameter Units Result Limit Analyzed Qualifiers

Mercury ug/L ND 0.20 03/14/22 13:13

LABORATORY CONTROL SAMPLE: 3575640 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Mercury ug/L 2.5 2.6 103 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3575641 3575642 MS MSD 92591496001 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc Conc. Result Result % Rec % Rec Limits **RPD** Qual ND 2.5 Mercury ug/L 2.5 2.5 2.3 98 75-125

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

### **REPORT OF LABORATORY ANALYSIS**



### **QUALITY CONTROL DATA**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

QC Batch: 683595 Analysis Method: EPA 7470A

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

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92591496021, 92591496022, 92591496023

METHOD BLANK: 3575649 Matrix: Water

Associated Lab Samples: 92591496021, 92591496022, 92591496023

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Mercury ug/L ND 0.20 03/17/22 10:41

LABORATORY CONTROL SAMPLE: 3575650

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury ug/L 2.5 2.4 97 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3575651 3575652

MS MSD 92591496021 Spike Spike MS MSD MS MSD % Rec Parameter Units Conc. Result % Rec % Rec Limits RPD Qual Result Conc. Result ug/L ND 2.5 2.5 2.4 2.3 97 75-125 8 Mercury 89

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

### **REPORT OF LABORATORY ANALYSIS**



#### **QUALIFIERS**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

#### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

#### **ANALYTE QUALIFIERS**

Date: 03/17/2022 02:21 PM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

#### **REPORT OF LABORATORY ANALYSIS**



#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591496

Date: 03/17/2022 02:21 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591496001	AF27221	EPA 7470A	683594	EPA 7470A	684405
92591496002	AF27187	EPA 7470A	683594	EPA 7470A	684405
92591496003	AF27222	EPA 7470A	683594	EPA 7470A	684405
92591496004	AF27193	EPA 7470A	683594	EPA 7470A	684405
92591496005	AF27188	EPA 7470A	683594	EPA 7470A	684405
92591496006	AF27189	EPA 7470A	683594	EPA 7470A	684405
92591496007	AF27190	EPA 7470A	683594	EPA 7470A	684405
92591496008	AF27196	EPA 7470A	683594	EPA 7470A	684405
92591496009	AF27232	EPA 7470A	683594	EPA 7470A	684405
2591496010	AF27233	EPA 7470A	683594	EPA 7470A	684405
2591496011	AF27209	EPA 7470A	683594	EPA 7470A	684405
2591496012	AF27210	EPA 7470A	683594	EPA 7470A	684405
2591496013	AF27220	EPA 7470A	683594	EPA 7470A	684405
2591496014	AF27207	EPA 7470A	683594	EPA 7470A	684405
2591496015	AF27202	EPA 7470A	683594	EPA 7470A	684405
2591496016	AF27203	EPA 7470A	683594	EPA 7470A	684405
2591496017	AF27217	EPA 7470A	683594	EPA 7470A	684405
2591496018	AF27195	EPA 7470A	683594	EPA 7470A	684405
2591496019	AF27214	EPA 7470A	683594	EPA 7470A	684405
2591496020	AF27212	EPA 7470A	683594	EPA 7470A	684405
2591496021	AF27211	EPA 7470A	683595	EPA 7470A	684420
2591496022	AF27229	EPA 7470A	683595	EPA 7470A	684420
92591496023	AF27230	EPA 7470A	683595	EPA 7470A	684420

#### **REPORT OF LABORATORY ANALYSIS**

# Pace Analytical"

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

Laboratory receiving samples: Asheville	unter	sville [	Rale	igh[	Mechanicsville Atlanta Kernersville
Sample Condition Upon Receipt  Sante Coop Courier:  Commercial  Client Name:  Sante Coop MFed Ex  Description  Pace	<b>e</b> ∕ ⊡usp ⊡othe			Proje Client	#: WO#: 92591496
Custody Seal Present? Yes XINO Seals Inta	ct?	Yes	MN	Ö.	Date/Initials Person Examining Contents 3-4-22 AR
	Bags you of h	Non P		Other Mue	Biological Tissue Frozen?  Yes No N/A
Cooler Temp Corrected (°C):  USDA Regulated Soll ( X N/A, water sample)	0				Temp should be above freezing to 6°C  Samples on Ice, cooling process has begun
Did samples originate in a quarantine zone within the United St.  []YesNo	ates: CA	NY, or 5	C (check m	aps)?	Did samples originate from a foreign source (Internationally, including lawait and Puerto Rich)? Tyes William
		<del></del>			Comments/Discrepancy:
Chain of Custody Present?	Yes	□No:	□N/A	1.	
Samples Arrived within Hold Time?	MYes	□No:	DN/A	2.	
Short Hold Time Analysis (<72 hr.)?	Yes	No	□N/A	3.	
Rush Turn Around Time Requested?	□Yes	No	□N/A	4.	
Sufficient Volume?	Yes	No	CIN/A	5.	
Correct Containers Used?	XYes XYes	□Ne	□N/A □N/A	6.	
Containers Intact?	Ves.	. No.	□N/A	7	- 1
Dissolved analysis: Samples Field Flitered?	□Yes	□No.	PON/A	8,	
	Yes	No	□n/y	9.	
-Includes Date/Time/ID/Analysis Matrix:					
	Yes	No.		10.	
	□Yes □Yes	□No ′	DANA	Tir.	
COMMENTS/SAMPLE DISCREPANCY	) Di	- 0	WF	P.	Field Data Required? Ves No -26, WAP-23, WAP-22,
CLIENT NOTIFICATION/RESOLUTION				Lot	t ID of split containers:
Person contacted:			Date/Ti	me: _	
Project Manager SCURF Review:		·			Date:



#### Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021

Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

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

Exceptions: VOA, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
\*\*Bottom half of box is to list number of bottles

Project LIOH . 92

92591496

M: TIH

Due Date: 03/18/22

CLIENT: 97-SanteeCoo

· Item#	BP4U-125 ml. Plastic Unpreserved (N/A) (CI-)	BP3U-250 ml. Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BPJU-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2S04 (pH < 2) (GL3)	BP3N-250 mL plastic HNO3 (pH < 2)	8P4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic N3OH (pH > 12) (CF)	WGFU-Wide-mouthed Glass Jar Unpreserved	AGIU-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SQ4 (pH < 2)*	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A[DG3A]-250 mL Amber NHACJ (N/A)[CI-]	DG9H-40 mLVOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA: H3PO4 (N/A)	VOAK (3 vials per kit) 5035 kit (N/A)	V/GK (3 vials per kit) -VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU: 100 ml. Amber Unpreserved vials (N/A)	VSGL-20 mt. Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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2	1				1	/	1	1					1	1	1									/	1	:		
3					/	X	/	/					1	1	1	-							_	/	1			
4					Z	X	1			.,		-27-	/	1	/				*****					1				
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6				÷	1			7					1	/	1	T									/			
7							1	7			7		1															
В	1					Y	1	1					/	/	7									1				
9	1				1	W	1	7					/	1														1
10	1				V	Y		1			1		1	1	1					- 1				1				:
11							1	1				-		1	1								1	1	7	ani-		
12					J							:		1											7			

	*	рН Ас	justment Log for Pres	erved Samples		
Sample ID	Type of Preservative	bH nbov receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
					-	

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



#### Document Name; Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Rovised: November 15, 2021

Page 2 of 2

Issuing Authority: Page Carolinas Quality Office

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

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

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

Project WO#: 92591496

PM: TIH

Due Date: 03/18/22

CLIENT: 97-SanteeCoo

Item#	8P49-125 mL Plastic Unpreserved (N/A) (CI-)	893U-250 rak Plastic Unpreserved (N/A)	SPZU-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CL)	BP3N-250 mL plastic HNO3 [pH < 2)	BP42-125 ml Plastic ZN Acetale & NaOH (>9)	BP48-125 mt Plastic NaQH (pH > 12) (CL)	WGFU-Wide-mouthed Glass jar Unpreserved	AG114-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 (ner Amber HCI (pH < 2)	AG3U-250 mt. Amber Unpreserved (N/A) (CI-)	AGIS-1 liter Amberth2504 [pH = 2]	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mt Amber NH4CI (N/A)(CI-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mt YOA H3PO4 (N/A)	VOAK (3 wais per kit) -5035 kt. (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-225 mL Szerije Plastic (N/A - lab)	SP2T-250 ml. Sterile Plastic (N/A – lab)		BP3A-250 ml. Plastic (NH2)250¢ (9.3-9.7)	AGDU-100 mL Amber Unpreserved viols [N/A]	VSGU-20 mt. Scintillation vials (N/A)	DG9U 40 mL Amber Unareserved vials (N./b)
1	1					K		V			7					-								/		3.7		
2	1					Y		1																/				÷
3						X								7	V						+			1				<del></del> -
5						X		1					V												1	-		
6			_			X		7					1	1	V								1			7		
7		_	_		V			1			1		7	1	1						.			1			7	<del>- , -</del>
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



# Document Name: Sample Condition Upon Receipt (SCUR) Document No.:

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021
Page 2 of 2
Issuing Authority:

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

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

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

Project WO#: 92591496

PM: TIH

Due Date: 03/18/22

CLIENT: 97-SanteeCoo

	BDAN 304 FF DIAM STATE	True 223 mg Prostic Unpreserved (N/A) [CI-]	PP3U-250 mil. Plastic Unpreserved (N/A)	8P2U-500.mt Plastic Unpreserved (N/A)	Control	BP1U-1 liter Plastic Unpreserved (N/A)	8P4S-325 mt Plastic H2SO4 (pH < 2) (CH)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mit Plastic ZN Accepte & NaOH Co.	BP48-125 ml Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jac Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCI (pH.< 2)	AG3U-250:mLAmber Unpreserved (N/A) (CI-)	AGAS-zlitteramber H2SO4 (pH < 2)	AG35-256.mL Amber H2504 (pH < 2)	AG3A[DG3A]-250 mL Amber NH40 (N/A)(CI-)	DG9H-40 mt. VOA HCI (N/A)	WG9T-40 mt VOS N225203 (N/A)	VG9U-40-mL VOA Uopreserved (N/A)	DG9P-40 mt YOA: H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - 126)	SPZT-Z50 mL Sterile Plastic (N/A - lab)		BP3A-250/mt Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20.mt Scintillation vials [N/A]	DG9U-40 mt Amber Unpreserved vials (N/A)
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	pH Ac	justment Log for Pres	served Samples		
Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lat #-
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, quit of temp, incorrect containers.



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

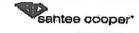
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LOWILLIA	@santeecooper.com			1215	67 1 3	M02.	79.GØI 1 3650	<u>_</u> •	No	
3				٠					Anah	sls Group
Labvorks ID # (Interpal use only)	Sample Coestion/. Description	follecton Date	Sample Collector	South type (Glass)	comfort Composite (Q) — Macris (see below)	Preservative (see	Kdomote  Venosi +  Teroffing limit  Više sample in  Anyulfra lotes	37 47 48	\$	
AF27221	waw-I	2/15/22 1124	BSB	P	G GW	2.	MERHOD 7470	·02/	×	
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7] 197	T - 10 DAL	1453	<u> </u>	1 -		1			1	┼
Lytown Legionomically Millinguistics/		ARACKA  ARACKA	icus de la companya d	and by	3-9-	2.2	TEMP (Correct) Preserva  Date/Tim	eceiving (Internal U C): NA No oli: CO No dive Lot#:	nicial:/	ar.

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



8antee Cooper One Riverwood Drive Moneke Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fex: (843)761-4175

	Customer Email	/Report Recipient:	Date R	esults Needed I	by:	Project/Task,	/Unit #:	Rerun request	for an	y flagged QC
	LCWILLIA	@santeecooper.com	<i>نــن</i>						No	
					gali.				A	nalvsis Group
	Labworks ID # (Internal use (only)	Sample Location/ Description	Collection Date	Collection Times	Commence of Commen	Composition Composition (Matrix) (See below) Matrix)	Any operage	district the second	Hg	
	AF27232	WLF-A2-6	2/24/22	1144 BSB	1 7	G GW 2	74-70	029	X	
	33	T exte		1149				010	1	
	209	MAP - 17		(837	3,			01/		
	1 210	I 17 DUP	Ţ	1342 -	ŢŢ	1 1 1		012		
1	219	WA-17-26		1459 .	1	1.11				
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は 一日 一日 一日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日		7/3/22 (400/6/11) (200		MISC. Nacker  Plantage  Plantage  Misc.  Napple Plantage  Plantage		3-4-22	1095 Correct Preservate Date/Til	t pH; (ve) No vative Lot#: me/init for preservat	utial:_	AR



Customer Email	/Report Reciple	nt:	Date	Results N	eeded b	y:		Pr	oject/	Task/	Unit #:	F	Rerun request	for ar	ıy flage	ged QC
LCWILLIA	@santeec	ooper.com		<u></u>			1215	567	<u></u>	402.0	9.G01	36500	Ves	Nο		
				*										Α	najvsis C	<u> Group</u>
LabworkSID# (Internal use only)	Sample Location Description		Coffection Date	Collection Time	Symple Collector	Total & of containers.	Sortie type (Gass	D) angligas	Watrater below	Preservative (sea)	i Re Mi	aliod# portug limit sc sample into		吾		
AF27217	WAP-24		2/22/21	810) 2	BEB	出	P	G	GW	2	7470	(	217	X		
上 216	WAP-23		<u>.</u>	1340	1		1				4. 1899	90 W				
195	WAP -=			1115			4					0	18	Ш		
214	WX+-21			1204								0	13			
212	WAP-19		1	15:14-								6.1	10			
기타	WAP-22		2/23/22	1400	1		1 1									
23	WLF-42-2	· · · · · · · · · · · · · · · · · · ·		1112									The same party of			
2.11	WAP-18			(2)8								0	21			
AF 27229	WLF-AZ-1		2/24/22	1027			$\perp$	1				Q'	22			Ш
230	WLF-42-1 D	ar .	上	1033	1	7	1	1	T	1		Q'	23:	7		
Amurum  Tellinguller 199  Tell		3/8/p		MIX DETEX DE	GEO.		HINGS		<b>4-2</b>	2. //	fediology fediol	TEMP (°C) Correct pH Preservative Date/Time/i	(es) No e Lot#:	Initial;	") AI	2
では、   には、   では、   には、   では、   には、   では、   には、	Lapworks   D #   (Internal use only)	LCWILLIA	LabworksID#   Sample Location	Compared   Compared	LCWILLIA	LCWILLIA	Lawonisto   Sample Location	1215	12 567	12 567   OR	12 567   JTM02.0   TabworkstD#   Sample Locausy      Internative   Description   Sample Locausy      Internative   Sam	12 567   JM02.69 66    Taylor   Sample Licator   Jaylor   12 567   TM02.09.09    3650   12 567   TM02.09.09    3650   13 50   15 50	12 567   TM02.09.66    36500   Telephon   TM02.09.66    36500   Telephon   12 567   JTN02.09.09    36500   No	12 567   17h02.09.59    8650   No   Acabate   No		



f wash being along		
1	Sample Receiving Non-Con	formance Form (NCF)
Date: 3 4 12	valuated by A. (WA).	Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here
1. If Chain-of-Custody (COC) lab personnel. Note issues on t	Is not received: contact client and if n	ecessary, fill out a COC and indicate that it was filled out by
2. If COC is incomplete, chec	k applicable issues below and add o	letails where appropriate:
Collection date/lime missing or incorrect		Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not receiv	
Comments/Details/Other Issu	missing Samples	recorded on the SCUR.
There are	Thosaing of the	
3. Sample integrity issues: cl	reck applicable issues below and ad	d details where appropriate:
Samples: Past holding time	Samples: Condition needs to be bro tab personnel's attention (details bel	ow) Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
'Samples: Insufficient volume received'	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or comprom samples, trip blanks or coolers	
Samples: contain chlorine or sulfides	Packing Material: Insufficient/improp	per Other:
Comments/Details:		
	*	
	A	
4. If Samples not preserved p	roperly and Sample Receiving adjus	sts pH, add details below:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot# of pres added;
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot# of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
	ontacted for any issue listed above,	
Client:	Contacted per:	
PM Initials:	Date/Time:	
Client Comments/Instruction		











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

gel.com

March 24, 2022

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

Re: ABS Lab Analytical Work Order: 571577

Dear Ms. Gilmetti:

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

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

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

Sincerely,

Nina Gampe for Julie Robinson Project Manager

Purchase Order: 367074

Enclosures



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

# Certificate of Analysis Report for

## SOOP001 Santee Cooper

Client SDG: 571577 GEL Work Order: 571577

#### 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.

	Mim Chose	
Reviewed by	,,,,,,,	

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: March 24, 2022

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: AF27221
Sample ID: 571577001
Matrix: Ground Water
Collect Date: 15-FEB-22 11:24

Receive Date: 25-FEB-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting									
GFPC, Ra228, Liquid	"As Received"									
Radium-228		2.97	+/-1.30	1.86	3.00	pCi/L		JXC9 03/09/2	0919 2234724	1
Radium-226+Radium-	228 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		3.17	+/-1.33			pCi/L		NXL1 03/09/2	2 1427 2234723	2
Rad Radium-226										
Lucas Cell, Ra226, Li	quid "As Recei	ved"								
Radium-226	U	0.208	+/-0.280	0.481	1.00	pCi/L		LXP1 03/07/2	2 0837 2234711	3
The following Analyt	ical Methods w	ere perfo	ormed:							
Method	Description					Ŋ	Analy	st Comments		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	903.1 Modified				
2 Care	curacion				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 86.5 (15%-125%)

#### Notes:

1

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 3 of 18 SDG: 571577

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**Certificate of Analysis** 

Report Date: March 24, 2022

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: AF27187
Sample ID: 571577002
Matrix: Ground Water
Collect Date: 15-FEB-22 12:34
Receive Date: 25-FEB-22

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

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	0.865	+/-0.881	1.45	3.00	pCi/L		JXC9	03/09/22	0919 2234724	1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		2.14	+/-0.973			pCi/L		NXL1	03/09/22	1427 2234723	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		1.27	+/-0.414	0.305	1.00	pCi/L		LXP1	03/07/22	0837 2234711	3

The following Analytical Methods were performed:

Description

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

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 87.3 (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:

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 4 of 18 SDG: 571577

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**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: March 24, 2022

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: AF27222
Sample ID: 571577003
Matrix: Ground Water
Collect Date: 16-FEB-22 13:46

Receive Date: 25-FEB-22 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	U	2.01	+/-1.37	2.16	3.00	pCi/L		JXC9	03/09/22	0919 2234724	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		2.77	+/-1.41			pCi/L		NXL1	03/09/22	1427 2234723	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		0.760	+/-0.340	0.350	1.00	pCi/L		LXP1	03/07/22	0837 2234711	3
The following Analytic	cal Methods w	ere perfo	ormed:								

The following Analytical Methods were performed:

Method Description

- 1	Crama anto /Tun nam Danarra	Total	D a14	Manainal	D0/	A so surtable Time
	3	EPA 903.1 Modified				
	2	Calculation				

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

84.2 (15%-125%)

#### Notes:

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

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 5 of 18 SDG: 571577

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: March 24, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF27193 Sample ID: 571577004 Matrix: Ground Water Collect Date: 17-FEB-22 10:05

Receive Date: 25-FEB-22 Collector: Client

Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Dat	e Time Batch	Method
nal Counting									
s Received"									
	3.55	+/-1.38	1.93	3.00	pCi/L		JXC9 03/09/	22 0919 2234724	- 1
8 Calculation	n "See Pa	arent Products"							
	4.94	+/-1.47			pCi/L		NXL1 03/09/	22 1427 2234723	2
d "As Recei	ved"								
	1.39	+/-0.509	0.546	1.00	pCi/L		LXP1 03/07/	22 0837 2234711	3
l Methods w	ere perfo	ormed:							
	nal Counting s Received" 8 Calculation d "As Recei	nal Counting s Received" 3.55 8 Calculation "See Pa 4.94 d "As Received" 1.39	nal Counting s Received" 3.55 +/-1.38 8 Calculation "See Parent Products" 4.94 +/-1.47 d "As Received"	al Counting s Received"  3.55 +/-1.38 1.93 8 Calculation "See Parent Products" 4.94 +/-1.47  d "As Received"  1.39 +/-0.509 0.546	al Counting s Received" 3.55 +/-1.38 1.93 3.00 8 Calculation "See Parent Products" 4.94 +/-1.47  d "As Received" 1.39 +/-0.509 0.546 1.00	al Counting s Received"  3.55 +/-1.38 1.93 3.00 pCi/L 8 Calculation "See Parent Products" 4.94 +/-1.47 pCi/L d "As Received"  1.39 +/-0.509 0.546 1.00 pCi/L	al Counting s Received"  3.55 +/-1.38 1.93 3.00 pCi/L 8 Calculation "See Parent Products" 4.94 +/-1.47 pCi/L  d "As Received"  1.39 +/-0.509 0.546 1.00 pCi/L	al Counting s Received"  3.55 +/-1.38 1.93 3.00 pCi/L JXC9 03/09//. 8 Calculation "See Parent Products" 4.94 +/-1.47 pCi/L NXL1 03/09//. d "As Received"  1.39 +/-0.509 0.546 1.00 pCi/L LXP1 03/07//.	al Counting s Received"  3.55 +/-1.38 1.93 3.00 pCi/L JXC9 03/09/22 0919 2234724 8 Calculation "See Parent Products" 4.94 +/-1.47 pCi/L NXL1 03/09/22 1427 2234723 d "As Received"  1.39 +/-0.509 0.546 1.00 pCi/L LXP1 03/07/22 0837 2234711

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	-
ATT 2		

2 Calculation 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 RL: Reporting Limit MDA: Minimum Detectable Activity

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 24, 2022

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: AF27188 Sample ID: 571577005 Matrix: Ground Water Collect Date: 21-FEB-22 10:42

Receive Date: 25-FEB-22 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		3.18	+/-1.45	2.12	3.00	pCi/L		JXC9	03/09/22	0919 2234724	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		12.1	+/-1.85			pCi/L		NXL1	03/09/22	1427 2234723	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		8.96	+/-1.15	0.494	1.00	pCi/L		LXP1	03/07/22	0911 2234711	3
The following Analytic	cal Methods w	ere perfo	ormed:								

Description

2	Calculation				
3	EPA 903.1 Modified				
Surrogota/Trocar Pacov	ary Tact	Dagult	Nominal	Dagguary 0/	Acceptable Limite

Acceptable Limits Surrogate/Tracer Recovery Recovery% Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 81.8 (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** 

Project:

Client ID:

Analyst Comments

Report Date: March 24, 2022

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: AF27189 Sample ID: 571577006 Matrix: Ground Water Collect Date: 21-FEB-22 12:05

25-FEB-22 Receive Date: 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"										
Radium-228		2.69	+/-1.69	2.65	3.00	pCi/L		JXC9	03/09/22	0919 2234724	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		6.56	+/-1.83			pCi/L		NXL1	03/09/22	1427 2234723	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		3.87	+/-0.702	0.384	1.00	pCi/L		LXP1	03/07/22	0911 2234711	3
The following Analyt	ical Methods w	zere perfo	rmed:								

Method

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" 73.9 (15%-125%)

#### Notes:

1

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: March 24, 2022

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: AF27190 Sample ID: 571577007 Matrix: Ground Water Collect Date: 21-FEB-22 13:35 Receive Date: 25-FEB-22

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

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	0.457	+/-1.10	1.96	3.00	pCi/L		JXC9	03/09/22	0919 2234724	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		7.15	+/-1.44			pCi/L		NXL1	03/09/22	1427 2234723	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		6.69	+/-0.923	0.251	1.00	pCi/L		LXP1	03/07/22	0911 2234711	3

The following Analytical Methods were performed:

Description

Coloulation

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	903.1 Modified				
Z Can	curation				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 83.6 (15%-125%)

#### Notes:

Method

1

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

EPA 904.0/SW846 9320 Modified

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:

Report Date: March 24, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF27196 Sample ID: 571577008 Matrix: Ground Water Collect Date: 21-FEB-22 14:48

Receive Date: 25-FEB-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Da	e Time Batch	Method
Rad Gas Flow Proporti	ional Counting	5								3.
GFPC, Ra228, Liquid '	"As Received"									
Radium-228		2.29	+/-1.04	1.37	3.00	pCi/L		JXC9 03/09	22 0919 2234724	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		6.90	+/-1.27			pCi/L		NXL1 03/09	22 1427 2234723	2
Rad Radium-226										
Lucas Cell, Ra226, Liq	juid "As Recei	ved"								
Radium-226	· d	4.61	+/-0.728	0.280	1.00	pCi/L		LXP1 03/07	22 0911 2234711	. 3
The following Analyti	cal Methods w	ere perfo	rmed:							

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	-
47774	and the Manager Property and the Control of the Con	

2 Calculation EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 74.7 (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 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:

Analyst Comments

Report Date: March 24, 2022

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: AF27197 Sample ID: 571577009 Matrix: Ground Water Collect Date: 21-FEB-22 14:53

Receive Date: 25-FEB-22 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	1.41	+/-1.05	1.66	3.00	pCi/L		JXC9	03/09/22	0919 2234724	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		4.77	+/-1.23			pCi/L		NXL1	03/09/22	1427 2234723	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		3.37	+/-0.643	0.437	1.00	pCi/L		LXP1	03/07/22	0911 2234711	3
The following Analytic	al Methods w	ere perfo	ormed:								

Method 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" 85.3 (15%-125%)

#### Notes:

1

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

**QC Summary** 

Report Date: March 24, 2022

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 571577

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gas Flow Batch 2234724 -									
QC1205029469 571574001 DU Radium-228	Uncertainty	2.85 +/-1.24		3.00 +/-1.15	pCi/L	5.02		(0% - 100%) JXC9	03/09/22 09:18
QC1205029470 LCS Radium-228	47.2 Uncertainty			44.7 +/-3.31	pCi/L		94.6	(75%-125%)	03/09/22 09:18
QC1205029468 MB Radium-228	Uncertainty			2.83 +/-1.17	pCi/L				03/09/22 09:18
Rad Ra-226 Batch 2234711 -									
QC1205029423 571574001 DU Radium-226	U Uncertainty	0.169 +/-0.220	U	0.394 +/-0.365	pCi/L	N/A		N/A LXP1	03/07/22 09:11
QC1205029425 LCS Radium-226	26.5 Uncertainty			22.8 +/-1.65	pCi/L		85.9	(75%-125%)	03/07/22 09:42
QC1205029422 MB Radium-226	Uncertainty		U	0.214 +/-0.261	pCi/L				03/07/22 09:11
QC1205029424 571574001 MS Radium-226	3 134 U Uncertainty	0.169 +/-0.220		116 +/-8.69	pCi/L		86.8	(75%-125%)	03/07/22 09:42

#### Notes:

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

The Qualifiers in this report are defined as follows:

\*\* Analyte is a Tracer compound

Result is less than value reported

> Result is greater than value reported

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

FA Failed analysis.

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## **QC Summary**

Page 2 of 2 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Η Analytical holding time was exceeded

J See case narrative for an explanation

571577

Value is estimated

Workorder:

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

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

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

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

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

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

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#### Radiochemistry Technical Case Narrative Santee Cooper SDG #: 571577

Product: GFPC, Ra228, Liquid

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

**Analytical Batch:** 2234724

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

GEL Sample ID#	<b>Client Sample Identification</b>
571577001	AF27221
571577002	AF27187
571577003	AF27222
571577004	AF27193
571577005	AF27188
571577006	AF27189
571577007	AF27190
571577008	AF27196
571577009	AF27197
1205029468	Method Blank (MB)
1205029469	571574001(AF27924) Sample Duplicate (DUP)
1205029470	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 1205029469 (AF27924DUP), 571577004 (AF27193) and 571577006 (AF27189) were non-homogenous matrix. Samples contain sedimentation. 571577004 (AF27193) and 571577006 (AF27189).

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

#### Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205029468 (MB)	Radium-228	Result: 2.83 pCi/L > MDA: 1.62 pCi/L <= RDL: 3.00 pCi/L

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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: 2234711

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

GEL Sample ID#	Client Sample Identification
571577001	AF27221
571577002	AF27187
571577003	AF27222
571577004	AF27193
571577005	AF27188
571577006	AF27189
571577007	AF27190
571577008	AF27196
571577009	AF27197
1205029422	Method Blank (MB)
1205029423	571574001(AF27924) Sample Duplicate (DUP)
1205029424	571574001(AF27924) Matrix Spike (MS)
1205029425	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 1205029423 (AF27924DUP), 1205029424 (AF27924MS) and 571577004 (AF27193) were non-homogenous matrix.

#### **Miscellaneous Information**

#### **Additional Comments**

The matrix spike, 1205029424 (AF27924MS), 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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Contract Lab Info: GEL	Contract Lab Due Date (Lab Only):	3	/25	1_22	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:sibrow.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrow.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrow.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrow.com">sibrown@santeecooper.com</a> & <a href="mailto:sibrow.com">sibrown@sante</a>

571577



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 Project/Task/Unit #: **Date Results Needed by: Customer Email/Report Recipient:** 1 36500 121567 JM02.09. GØ1 Yes (No) LCWILLIA @santeecooper.com **Analysis Group** प्रमुख पुरु Comments Sample Location/ Labworks ID# Matrix(see below) Collection Time **Collection Date** Method # Description (Glass (Internal use Sample Collector Total If of container 228 Preservative ( below) Reporting limit • 226 200 only) Bottle type: ( G/Plastic-P) Grab (G) or Composite ( Misc. sample info Any other notes TOTAL EAD 8 X 2 P X X 2 G GW WBW-1 2/15/22 1124 BSB AF27221 WAT-1 1234 AF27187 WBW- A1-1 2/16/22 1346 AF27222 2/17/22 1005 AF 27193 WAP-T 2/21/22 1042 88 WAP-2 1205 89 WAP-3 1335 90. WAP - 4 96 WAP-10 1448 1453 97 WAP-10 DUP Sample Receiving (Internal Use Only) Received by: Employee # Date Time Relinquished by: Employee# Date Time TEMP (°C): Initial: 1045 GFL 425/22 35594 2/25/22 1045 Sproun Correct pH: Yes No Time Date Time Employee # Date Relinguished by: **Employee#** Preservative Lot#: 505 65C 2-25-20 Relinquished by: 130 Time 7-15-12 Time Date **Employee#** Received by: Employee# Date/Time/Init for preservative: ☐ METALS (all ) Coal <u>Flyash</u> OHMISC. Gypsum <u>Nutrients</u> □ Sb □ Cu France (90) (James Wallboard () Ultimate TOC BTEX Ammonia □Se □ Fe Seld orthog Gypsum(all ☐ Napthalene DOC □ % Moisture II LOI ☐ THM/HAA betow) □ As  $\Box K$ □ Ash □ % Carbon TP/TPO4 Actiff Express Street Hot □ VOC AlM □ Sulfur NH3-N  $\square B$ □ Li ☐ Oil & Grease IOC □ BTUs Analysis F □ E. Coli Total metals □ Ti Described King □ Ba ☐ Volatile Matter ○ Sieve CI ☐ Total Coliform Soluble Metals ☐ % Moisture ☐ CHN Used Off NO2 Purity (CaSO4) % Moisture □ Be ☐ Mn □pH ☐ Dissolved As Other Tests: Br Access to the  $\square V$ □ Ca □Мо ☐ Dissolved Fe □ XRF Scan ) Sulfites NO3 **NPDES** (ALCLO-NLI) ⊟HGI □ Rad 226 □ Cd □ Na  $\square$  Zn1941 SO4 DOI & Grease □ Rad 228 Chlorides □ Fineness □Ni □Со □ Hg □ PCB ☐ Particulate Matter Particle Size O TSS (,(,),, □ CrVI □ Cr □ Pb



CEEE Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM Client: 571574157157515715 SDG/AR/COC/Work Order: BE Received By: Date Received: FedEx Express FedEx Ground UPS Field Services Other Carrier and Tracking Number å Suspected Hazard Information "If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. 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 COC notation or radioactive stickers on containers equal client designation. received as radioactive? C) Did the RSO classify the samples as Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): CPM /mR/Hr Classified as: Rad 1 Rad 2 Rad 3 radioactive? COC 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** Beryllium E) Did the RSO identify possible hazards? Sample Receipt Criteria Z 2 Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Shipping containers received intact and sealed? Chain of custody documents included Circle Applicable: Client contacted and provided COC COC created upon receipt with shipment? Preservation Method: Wet Ice Ice Packs Dry ice None Other: Samples requiring cold preservation \*all temperatures are recorded in Celsius within  $(0 \le 6 \text{ deg. C})$ ?\* Temperature Device Serial #: IR2-21 Daily check performed and passed on IR Secondary Temperature Device Serial # (If Applicable): temperature gun? Circle Applicable: Seals broken Damaged container Leaking container Other (describe) Sample containers intact and sealed? Sample ID's and Containers Affected: Samples requiring chemical preservation at proper pH? If Preservation added, Lot#: 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) Do any samples require Volatile 7 Are liquid VOA vials free of headspace? Yes\_\_\_ No\_ Analysis? NA\_ Sample ID's and containers affected: ID's and tests affected: 8 Samples received within holding time? ID's and containers affected: Sample ID's on COC match ID's on bottles? Date & time on COC match date & time Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) on bottles? Number of containers received match Circle Applicable: No container count on COC Other (describe) 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): PM (or PMA) review: Initials

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 24 March 2022

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



# **Environment Testing America**

# ANALYTICAL REPORT

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-214698-1

Client Project/Site: 125915/JM02.08.G01.1/36500

Revision: 1

For:

South Carolina Public Service Authority Santee Cooper PO BOX 2946101 Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by: 6/2/2022 9:20:25 AM

Jerry Lanier, Project Manager I (912)250-0281

Jerry.Lanier@et.eurofinsus.com

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Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Job ID: 680-214698-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-214698-1

Comments

No additional comments.

Revision

The final report was revised to include additional metals.

Receipt

The samples were received on 4/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.3° C.

Metals

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

## **Sample Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

AF27233

680-214698-13

Lab Sample ID Client Sample ID Matrix Collected Received 680-214698-1 AF27221 Water 02/15/22 11:24 04/28/22 10:30 680-214698-2 AF27222 Water 02/16/22 13:46 04/28/22 10:30 680-214698-3 AF27223 Water 03/03/22 11:48 04/28/22 10:30 03/02/22 13:54 04/28/22 10:30 680-214698-4 AF27224 Water 680-214698-5 AF27225 Water 03/02/22 12:31 04/28/22 10:30 680-214698-6 AF27226 Water 03/02/22 11:20 04/28/22 10:30 680-214698-7 AF27227 Water 03/02/22 11:25 04/28/22 10:30 680-214698-8 AF27228 Water 03/03/22 13:06 04/28/22 10:30 680-214698-9 AF27229 Water 02/24/22 10:27 04/28/22 10:30 Water 02/24/22 10:33 04/28/22 10:30 680-214698-10 AF27230 680-214698-11 AF27231 Water 02/23/22 11:22 04/28/22 10:30 680-214698-12 AF27232 Water 02/24/22 11:44 04/28/22 10:30

Water

02/24/22 11:49 04/28/22 10:30

Job ID: 680-214698-1

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Method	Method Description	Protocol	Laboratory	
6020B	Metals (ICP/MS)	SW846	TAL SAV	
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT	
3010A	Preparation, Total Metals	SW846	TAL PIT	
3010A	Preparation, Total Metals	SW846	TAL SAV	

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058 TAL 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: 680-214698-1

#### Qualifiers

#### Metals

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

#### Glossary

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

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

**Eurofins Savannah** 

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Job ID: 680-214698-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27221						Lab Sa	mple ID: 6	80-214698-1			
Analyte Cobalt	Result 8.38	Qualifier	RL 0.500	MDL	Unit ug/L	Dil Fac	Method 6020B	Prep Type Total/NA			
Client Sample ID: AF27222						Lab Sample ID: 680-214698-2					
No Detections.											
Client Sample ID: AF27223						Lab Sa	mple ID: 6	80-214698-3			
No Detections.											
Client Sample ID: AF27224						Lab Sa	mple ID: 6	80-214698-4			
No Detections.											
Client Sample ID: AF27225						Lab Sa	mple ID: 6	80-214698-5			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	O Method	Prep Type			
Arsenic	3.15		3.00		ug/L	1	6020B	Total/NA			
Cobalt	1.43		0.500		ug/L	1	6020B	Total/NA			
Client Sample ID: AF27226						Lab Sa	mple ID: 6	80-214698-6			
No Detections.											
Client Sample ID: AF27227						Lab Sa	mple ID: 6	80-214698-7			
No Detections.											
Client Sample ID: AF27228						Lab Sa	mple ID: 6	80-214698-8			
No Detections.											
Client Sample ID: AF27229						Lab Sa	mple ID: 6	80-214698-9			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	O Method	Prep Type			
Arsenic	322		3.00		ug/L	1	6020B	Total/NA			
Cobalt	0.790		0.500		ug/L	1	6020B	Total/NA			
Client Sample ID: AF27230						Lab San	ple ID: 68	0-214698-10			
Analyte	15151516616355	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type			
Arsenic	301		3.00		ug/L	1	6020B	Total/NA			
Cobalt	0.750		0.500		ug/L	1	6020B	Total/NA			
Client Sample ID: AF27231						Lab San	ple ID: 68	0-214698-11			
Analyte		Qualifier	RL	MDL	·		O Method	Prep Type			
Arsenic	452		3.00		ug/L	1	6020B	Total/NA			
Cobalt	0.755		0.500		ug/L	1	6020B	Total/NA			
Client Sample ID: AF27232						Lab San	ple ID: 68	0-214698-12			
Analyte		Qualifier	RL	MDL	- Secretary		Method	Prep Type			
Arsenic	4.11		3.00		ug/L	1	6020B	Total/NA			

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

# **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

Client Sample ID: AF27233 Lab Sample ID: 680-214698-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.96	·	3.00		ug/L	1		6020B	Total/NA

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-1

Job ID: 680-214698-1

Matrix: Water

Date Collected: 02/15/22 11:24 Date Received: 04/28/22 10:30

Client Sample ID: AF27221

Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00 U		3.00		ug/L		05/24/22 16:11	05/25/22 20:43	1
Beryllium	0.500 U		0.500		ug/L		05/24/22 16:11	05/25/22 20:43	1
Cadmium	0.500 U		0.500		ug/L		05/24/22 16:11	05/25/22 20:43	1
Chromium	5.00 U		5.00		ug/L		05/24/22 16:11	05/25/22 20:43	1
Cobalt	8.38		0.500		ug/L		05/24/22 16:11	05/25/22 20:43	1
Lead	2.50 U		2.50		ug/L		05/24/22 16:11	05/25/22 20:43	1
Antimony	5.00 U		5.00		ug/L		05/24/22 16:11	05/25/22 20:43	1
Copper	5.00 U		5.00		ug/L		05/24/22 16:11	05/25/22 20:43	1

Method: EPA 6020B - N	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:06	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:06	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-2

Job ID: 680-214698-1

Matrix: Water

**Client Sample ID: AF27222** Date Collected: 02/16/22 13:46

Date Received: 04/28/22 10:30

Mothod: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:51	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:51	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:51	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:51	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:51	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:51	1
Antimony	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:51	1
Copper	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:51	1

Method: EPA 6020B - Me	etals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:09	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:09	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-3

Job ID: 680-214698-1

**Client Sample ID: AF27223** Date Collected: 03/03/22 11:48 Date Received: 04/28/22 10:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:33	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:33	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:33	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:33	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:33	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:33	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:33	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:33	1

Method: EPA 6020B - Me	tals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:13	1
Thallium	1.00	Ü	1.00		ua/L		05/10/22 12:03	05/11/22 19:13	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-4

Job ID: 680-214698-1

Matrix: Water

Client Sample ID: AF27224 Date Collected: 03/02/22 13:54 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:18	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:18	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:18	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:18	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:18	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:18	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:18	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:18	1

Method: EPA 6020B - Metals (ICP/MS)											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:23	1	
	Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:23	1	

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-5

Matrix: Water

Job ID: 680-214698-1

Client Sample ID: AF27225
Date Collected: 03/02/22 12:31
Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.15		3.00		ug/L		05/25/22 10:44	05/26/22 09:20	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	1
Cobalt	1.43		0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:20	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	1

Method: EPA 6020B - Me	etals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:27	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:27	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-6

05/25/22 10:44 05/26/22 09:28

Matrix: Water

Job ID: 680-214698-1

Client Sample ID: AF27226
Date Collected: 03/02/22 11:20
Date Received: 04/28/22 10:30

Copper

Method: 6020B - Meta	Is (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:28	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	(
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:28	
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	

Method: EPA 6020B - Meta	als (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:30	1
Thallium	1.00	U	1.00		ua/L		05/10/22 12:03	05/11/22 19:30	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

**Client Sample ID: AF27227** Date Collected: 03/02/22 11:25 Date Received: 04/28/22 10:30

Lab Sample ID: 680-214698-7

Job ID: 680-214698-1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:31	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:31	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:31	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:31	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:31	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:31	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:31	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:31	1

Method: EPA 6020B - Meta	als (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:34	1
Thallium	1.00	U	1.00		ua/L		05/10/22 12:03	05/11/22 19:34	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-8

05/10/22 12:03 05/11/22 19:37

05/10/22 12:03 05/11/22 19:37

Matrix: Water

Job ID: 680-214698-1

Client	Sample	ID:	AF	27228
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Date Collected: 03/03/22 13:06 Date Received: 04/28/22 10:30

Selenium

Thallium

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:36	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:36	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:36	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:36	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:36	1
Method: EPA 6020B - N	Metals (ICP/MS)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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ug/L

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-9

Matrix: Water

Job ID: 680-214698-1

Client Sample ID: AF27229 Date Collected: 02/24/22 10:27

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	322	<u>-</u>	3.00		ug/L		05/24/22 17:36	05/25/22 21:50	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:50	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:50	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:50	1
Cobalt	0.790		0.500		ug/L		05/24/22 17:36	05/25/22 21:50	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:50	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:50	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:50	1

Method: EPA 6020B - Met	tals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:41	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:41	1

Eurofins Savannah

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-10

Outriple 1D. 000-2 14000-10

Matrix: Water

Job ID: 680-214698-1

Client Sample ID: AF27230 Date Collected: 02/24/22 10:33

Date Received: 04/28/22 10:30

Method: 6020B - Metals (IC	CP/MS)								
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	301		3.00		ug/L		05/24/22 17:36	05/25/22 21:53	1
Beryllium	0.500 U		0.500		ug/L		05/24/22 17:36	05/25/22 21:53	1
Cadmium	0.500 U		0.500		ug/L		05/24/22 17:36	05/25/22 21:53	1
Chromium	5.00 U		5.00		ug/L		05/24/22 17:36	05/25/22 21:53	1
Cobalt	0.750		0.500		ug/L		05/24/22 17:36	05/25/22 21:53	1
Lead	2.50 U		2.50		ug/L		05/24/22 17:36	05/25/22 21:53	1
Antimony	5.00 U		5.00		ug/L		05/24/22 17:36	05/25/22 21:53	1
Copper	5.00 U		5.00		ug/L		05/24/22 17:36	05/25/22 21:53	1

Method: EPA 6020B - M	letals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:55	1
Thallium	1.00	Ü	1.00		ua/L		05/10/22 12:03	05/11/22 19:55	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-11

Matrix: Water

Job ID: 680-214698-1

Client Sample ID: AF27231 Date Collected: 02/23/22 11:22

Date Received: 04/28/22 10:30

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	452		3.00		ug/L		05/24/22 17:36	05/25/22 21:32	1
Beryllium	0.500 ↓	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:32	1
Cadmium	0.500 €	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:32	1
Chromium	5.00 l	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:32	1
Cobalt	0.755		0.500		ug/L		05/24/22 17:36	05/25/22 21:32	1
Lead	2.50 \	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:32	1
Antimony	5.00 l	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:32	1
Copper	5.00 l	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:32	1

Method: EPA 6020B - Method	tals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 20:09	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 20:09	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-12

NA 4: 1000 12

Job ID: 680-214698-1

Matrix: Water

Client Sample ID: AF27232 Date Collected: 02/24/22 11:44

Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.11		3.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Beryllium	0.500	Ü	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:55	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 20:23	1
Thallium	1.00	Ü	1.00		ua/L		05/10/22 12:03	05/11/22 20:23	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214698-13

Matrix: Water

Job ID: 680-214698-1

Client Sample ID: AF27233
Date Collected: 02/24/22 11:49
Date Received: 04/28/22 10:30

Method: 6020B - Metals (IC	P/MS)								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.96		3.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Beryllium	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Cadmium	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Chromium	5.00 L	J	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Cobalt	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Lead	2.50 L	J	2.50		ug/L		05/24/22 17:36	05/25/22 21:58	1
Antimony	5.00 L		5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Copper	5.00 L	J	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1

Method: EPA 6020B	- Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 20:33	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 20:33	1

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Job ID: 680-214698-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-722485/1-A

Analysis Batch: 722803

**Matrix: Water** 

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

Prep Batch: 722485

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 19:49	1
Antimony	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Copper	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1

Lab Sample ID: LCS 680-722485/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 722803	Spike	LCS	LCS				Prep Batch: 72248
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	100	97.59		ug/L		98	80 - 120
Beryllium	50.0	49.07		ug/L		98	80 - 120
Cadmium	50.0	49.44		ug/L		99	80 - 120
Chromium	100	96.03		ug/L		96	80 - 120
Cobalt	50.0	51.43		ug/L		103	80 - 120
Lead	505	490.3		ug/L		97	80 - 120
Antimony	50.0	49.84		ug/L		100	80 - 120
Copper	99.1	101.3		ug/L		102	80 - 120

Lab Sample ID: MB 680-722492/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA Prep Batch: 722492

Analysis Batch: 722803

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 05/24/22 17:36 05/25/22 21:11 Arsenic 3.00 U 3.00 ug/L Beryllium 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 21:11 Cadmium 0.500 U 0.500 05/24/22 17:36 05/25/22 21:11 ug/L Chromium 5.00 U 5.00 ug/L 05/24/22 17:36 05/25/22 21:11 Cobalt 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 21:11 Lead 2.50 U 2.50 ug/L 05/24/22 17:36 05/25/22 21:11 Antimony 5.00 U 5.00 ug/L 05/24/22 17:36 05/25/22 21:11 5.00 U 5.00 Copper ug/L 05/24/22 17:36 05/25/22 21:11

Lab Sample ID: LCS 680-722492/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 722803							Prep Batch: 722492
***	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	100	96.36		ug/L		96	80 - 120
Beryllium	50.0	49.53		ug/L		99	80 - 120
Cadmium	50.0	48.90		ug/L		98	80 - 120
Chromium	100	94.29		ug/L		94	80 - 120
Cobalt	50.0	50.79		ug/L		102	80 - 120
Lead	505	487.3		ug/L		97	80 - 120
Antimony	50.0	50.08		ug/L		100	80 - 120

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Job ID: 680-214698-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-722492/2-A

**Matrix: Water** 

Analyte

Copper

Analysis Batch: 722803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

**Prep Batch: 722492** %Rec

LCS LCS Spike Added Result Qualifier Unit D %Rec Limits 99 1 99.76 ug/L 101 80 - 120

Lab Sample ID: MB 680-722593/1-A

Matrix: Water

Analysis Batch: 722917

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 722593** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 08:57	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1

Lab Sample ID: LCS 680-722593/2-A

**Matrix: Water** 

Analysis Ratch: 722917

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 722593

Analysis Batch. 122311	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	100	93.65	-	ug/L		94	80 - 120
Beryllium	50.0	48.67		ug/L		97	80 - 120
Cadmium	50.0	48.55		ug/L		97	80 - 120
Chromium	100	89.35		ug/L		89	80 - 120
Cobalt	50.0	49.48		ug/L		99	80 - 120
Lead	505	478.9		ug/L		95	80 - 120
Antimony	50.0	49.24		ug/L		99	80 - 120
Copper	99.1	96.16		ug/L		97	80 - 120

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

Lab Sample ID: MB 180-398254/1-A

**Matrix: Water** 

Analysis Batch: 398622

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

Prep Batch: 398254

The interest area in the Property of the Artist Standard	MB	MB						The second second	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L	2 -2	05/10/22 12:03	05/11/22 17:35	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 17:35	1

Lab Sample ID: LCS 180-398254/2-A

Matrix: Water

Analysis Batch: 398622

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

Prep Batch: 398254

						I ICP Da	ce
Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
1000	972.2	100	ug/L		97	80 - 120	
1000	1012		ug/L		101	80 - 120	
	Added	Added Result 1000 972.2	Added Result Qualifier 1000 972.2	Added         Result         Qualifier         Unit           1000         972.2         ug/L	Added         Result         Qualifier         Unit         D           1000         972.2         ug/L	Added         Result 1000         Qualifier 972.2         Unit ug/L         D %Rec 97	Spike         LCS         LCS         %Rec           Added         Result         Qualifier         Unit         D         %Rec         Limits           1000         972.2         ug/L         97         80 - 120

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

## **Metals**

Prep Batch: 398254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	3010A	
680-214698-2	AF27222	Total/NA	Water	3010A	
680-214698-3	AF27223	Total/NA	Water	3010A	
680-214698-4	AF27224	Total/NA	Water	3010A	
680-214698-5	AF27225	Total/NA	Water	3010A	
680-214698-6	AF27226	Total/NA	Water	3010A	
680-214698-7	AF27227	Total/NA	Water	3010A	
680-214698-8	AF27228	Total/NA	Water	3010A	
680-214698-9	AF27229	Total/NA	Water	3010A	
680-214698-10	AF27230	Total/NA	Water	3010A	
680-214698-11	AF27231	Total/NA	Water	3010A	
680-214698-12	AF27232	Total/NA	Water	3010A	
680-214698-13	AF27233	Total/NA	Water	3010A	
MB 180-398254/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	3010A	

## Analysis Batch: 398622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	EPA 6020B	398254
680-214698-2	AF27222	Total/NA	Water	EPA 6020B	398254
680-214698-3	AF27223	Total/NA	Water	EPA 6020B	398254
680-214698-4	AF27224	Total/NA	Water	EPA 6020B	398254
680-214698-5	AF27225	Total/NA	Water	EPA 6020B	398254
680-214698-6	AF27226	Total/NA	Water	EPA 6020B	398254
680-214698-7	AF27227	Total/NA	Water	EPA 6020B	398254
680-214698-8	AF27228	Total/NA	Water	EPA 6020B	398254
680-214698-9	AF27229	Total/NA	Water	EPA 6020B	398254
680-214698-10	AF27230	Total/NA	Water	EPA 6020B	398254
680-214698-11	AF27231	Total/NA	Water	EPA 6020B	398254
680-214698-12	AF27232	Total/NA	Water	EPA 6020B	398254
680-214698-13	AF27233	Total/NA	Water	EPA 6020B	398254
MB 180-398254/1-A	Method Blank	Total/NA	Water	EPA 6020B	398254
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	398254

## Prep Batch: 722485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	3010A	
680-214698-2	AF27222	Total/NA	Water	3010A	
MB 680-722485/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	3010A	

## Prep Batch: 722492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-9	AF27229	Total/NA	Water	3010A	
680-214698-10	AF27230	Total/NA	Water	3010A	
680-214698-11	AF27231	Total/NA	Water	3010A	
680-214698-12	AF27232	Total/NA	Water	3010A	
680-214698-13	AF27233	Total/NA	Water	3010A	
MB 680-722492/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	3010A	

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

## **Metals**

## Prep Batch: 722593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-3	AF27223	Total/NA	Water	3010A	<del></del>
680-214698-4	AF27224	Total/NA	Water	3010A	
680-214698-5	AF27225	Total/NA	Water	3010A	
680-214698-6	AF27226	Total/NA	Water	3010A	
680-214698-7	AF27227	Total/NA	Water	3010A	
680-214698-8	AF27228	Total/NA	Water	3010A	
MB 680-722593/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	3010A	

## Analysis Batch: 722803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-1	AF27221	Total/NA	Water	6020B	722485
680-214698-2	AF27222	Total/NA	Water	6020B	722485
680-214698-9	AF27229	Total/NA	Water	6020B	722492
680-214698-10	AF27230	Total/NA	Water	6020B	722492
680-214698-11	AF27231	Total/NA	Water	6020B	722492
680-214698-12	AF27232	Total/NA	Water	6020B	722492
680-214698-13	AF27233	Total/NA	Water	6020B	722492
MB 680-722485/1-A	Method Blank	Total/NA	Water	6020B	722485
MB 680-722492/1-A	Method Blank	Total/NA	Water	6020B	722492
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	6020B	722485
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	6020B	722492

## Analysis Batch: 722917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214698-3	AF27223	Total/NA	Water	6020B	722593
680-214698-4	AF27224	Total/NA	Water	6020B	722593
680-214698-5	AF27225	Total/NA	Water	6020B	722593
680-214698-6	AF27226	Total/NA	Water	6020B	722593
680-214698-7	AF27227	Total/NA	Water	6020B	722593
680-214698-8	AF27228	Total/NA	Water	6020B	722593
MB 680-722593/1-A	Method Blank	Total/NA	Water	6020B	722593
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	6020B	722593

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27221

Date Collected: 02/15/22 11:24 Date Received: 04/28/22 10:30

Lab Sample ID: 680-214698-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:43	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:06	RSK	TAL PIT

Client Sample ID: AF27222

Date Collected: 02/16/22 13:46 Date Received: 04/28/22 10:30 Lab Sample ID: 680-214698-2 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:51	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:09	RSK	TAL PIT

Lab Sample ID: 680-214698-3 Client Sample ID: AF27223

Date Collected: 03/03/22 11:48 Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:33	BJB	TAL SAV
Total/NA	Prep	3010A			398254		3-0-00000000 3-0-00000000000	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:13	RSK	TAL PIT

Client Sample ID: AF27224 Lab Sample ID: 680-214698-4 Matrix: Water

Date Collected: 03/02/22 13:54 Date Received: 04/28/22 10:30

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3010A 722593 05/25/22 10:44 JΕ TAL SAV Total/NA Analysis 6020B 1 722917 05/26/22 09:18 BJB TAL SAV Total/NA Prep 3010A 398254 05/10/22 12:03 NAF TAL PIT Total/NA Analysis EPA 6020B 1 398622 05/11/22 19:23 RSK TAL PIT

Client Sample ID: AF27225 Lab Sample ID: 680-214698-5

Date Collected: 03/02/22 12:31

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:20	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:27	RSK	TAL PIT

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Matrix: Water

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27226 Lab Sample ID: 680-214698-6 Date Collected: 03/02/22 11:20

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:28	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:30	RSK	TAL PIT

Client Sample ID: AF27227 Lab Sample ID: 680-214698-7 Date Collected: 03/02/22 11:25

**Matrix: Water** 

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:31	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:34	RSK	TAL PIT

Client Sample ID: AF27228 Lab Sample ID: 680-214698-8

Date Collected: 03/03/22 13:06 **Matrix: Water** 

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:36	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:37	RSK	TAL PIT

Client Sample ID: AF27229 Lab Sample ID: 680-214698-9

Date Collected: 02/24/22 10:27 **Matrix: Water** 

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:50	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:41	RSK	TAL PIT

Client Sample ID: AF27230 Lab Sample ID: 680-214698-10

Date Collected: 02/24/22 10:33 Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:53	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:55	RSK	TAL PIT

Eurofins Savannah

## Lab Chronicle

Job ID: 680-214698-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27231

Lab Sample ID: 680-214698-11

**Matrix: Water** 

Date Collected: 02/23/22 11:22 Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:32	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 20:09	RSK	TAL PIT

Client Sample ID: AF27232

Lab Sample ID: 680-214698-12

Matrix: Water

Date Collected: 02/24/22 11:44 Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:55	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 20:23	RSK	TAL PIT

Client Sample ID: AF27233 Date Collected: 02/24/22 11:49 Lab Sample ID: 680-214698-13

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:58	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 20:33	RSK	TAL PIT

### **Laboratory References:**

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058 TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

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# **Chain of Custody**

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

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC 125915 / JM02.08. GØI. 1/ 36500 LCWILLIA @santeecooper.com Yes No **Analysis Group** Sample Location/ Labworks ID # Comments ઉ જી Bottle type: (Glass-G/Plastic-P) Matrix(see below) **Collection Time Collection Date** (Internal use Description Method# Sample Collector 199 Total # of contail Preservative ( below) only) Grab (G) or Composite (C) Reporting limit . Misc. sample info E. B P Any other notes F 83 BRT X X AF27221 2/15 P G 2 METHOD 6020 WBW-I 1124 GW 2/16 22 WBW -AI- 1 1346 SEE SHEET FOR RLS. WLF- 41- 1 3/3 1148 23 3/2 1354 24 2 25 3 1231 26 4 1120 1125 4 DUP 27 3/3 28 1306 WLF-A1-5 WLF-A2-1 29 3/24 1027 680-214698 Chain of Custody 1033 30 1 DUP Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee# Date Time TEMP (°C): Initial: 428 2 TA 1030 4/27/22 3 29/12roun 35594 1500 Correct pH: Yes Date Relinguished by: Time Employee# Time Received by: Employee# Date Preservative Lot#: Received by: Relinquished by: Employee# Date Time Employee# Date Time Date/Time/Init for preservative: ☐ METALS (all) Nutrients MISC. Synsum Coal FW:Si □ Cu □Sb □ Ag ans. Oli Qual. Vildosture TOC BTEX 1 Wellhourd □ Ultimate □ Ammonia □Fe □ Se 11 Napthalene □ DOC Gypswm(all ☐ % Moisture li LOI □THM/HAA □As DK □ Sn □ TP/TPO4 □ Ash ☐ % Carbon DVOC C AUV UNH3-N ☐ Sulfur ☐ Sr ☐ Mineral  $\square B$ O Li □ Oil & Grease T . O BTUs Analysis DE. Coli □ Ti Total metals □ Ba □ Mg ☐ Volatile Matter □ Sieve 11 Total Coliform Salubic Merals D TI □ Mn D NO2 □ Be TPurty (CaSO4)
2% Mountre □ CHN □ % Moisture □pH ☐ Dissolved As ⊕ Br Other Tests: □ Ca □ Mo  $\Box V$ Suffice □ NO3 □ Dissolved Fe XRF Scan NPDES □ Cd □ Zn ☐ Rad 226 □ Na i pili I Chlorides HGI 0.804 Olf & Grease ☐ Rad 228 **Fineness** □Со ΩNi □Hg □ PCB Particulate Matter D As O Particle Size 11 TSS □ Cr □Pb □ CrVI Sulfur

# **Chain of Custody**

santee cooper

Santee Coope One Riverwood Driv Moneks Comer, SC 2946 Phone (843)761-8000 Ext. 514

Custome	r Email	/Rep	ort Recip	lent:	Date F	Results No	eded b	y:		Pr	oject/	Task/	Unit #:	Rerun re	quest f	or an	y fla	gged Q	C
LCWIL	HA		@santee	cooper.com		//			125	915	/ 57	ИDZ.	08.Gø1.	1 36500	Yes	No			
																A	nalysi.	Group	
Labworks (Internal L only)			ple Locati 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	Me     Rep     Mis     Any	Comments shod # norting limit so, sample info y other notes		As, Be, Cd, Co Cr, Cu, Pb, Se	TI, Pb		
AF27	23ф	W	_F A2	- 2	2/23	1122	BSB	1	P	G	GW	2	METHO	D 6020		X	X		
1	32	١		-6	2/24	1144	١		1	1		1	SEE S	HEET FOR RLS.		1	١		****
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Relinquis	hed by:		Employee#	Date	Time	Receiv	ed by:	Er	nployee	# 2 T	Date		Time	Sample Receiving (Int TEMP (°C): / 8. 9		e Onl			
89mou				4/21/22	1500	DM		1	n	4	182	2 /	030	18.	3	iniai;			
Relinquis	hed by:		imployee#	Date	Time	Receiv	ed by:	En	nployee	"1 1	Date		Time	Correct pH: Yes	No				
		Tuesday (1992)										100000000000000000000000000000000000000		Preservative Lot#:					
Relinquis	nea by:	42	mployee#	Date	Time	Receive	d by:	En	nployee		Date	4	Time						
					ACCIONATION AND CONTRACTOR AND CONTR	-1.0-		A CONTROL OF						Date/Time/Init for p	reservati	ve:			
□Ag	□ ME	TAI	S (all) □Sb	Nutr	ients	MIS	<u>c.</u>		Gy	psun	1		Coal	Flyash	3.5				
□AI	□Fe		□ Se	TO	CONTRACTOR STREET	□ BTEX	W	ū	Wallbo				Ultimate	D Ammonia				Qual	
□As	ΠK	ingeneralis Nov	□ Sn	DDO	TPO4	I   Napthale: □ THM/HA			belas	ttim((a)			□ % Moist □ Ash	ure ☐ LOI ☐ % Carbon				er T	
□B	□Li		□Sr	□ NH.	LN	□ VOC □ Oil & Gr	ase		E All				□ Sulfur	□ Mineral			or Olig Salur		
□ Ba	□Mg		□Ti	OF UCL		□ E. Coli				el ment			□ BTUs	Analys	is	van .			
□ Be	□Мл	Auton.	□ Tl	O NO:		I (Total Col □ pH	itorm		O Soli	ible Me ty (CaS	116		☐ Volatile ☐ CHN	Matter □ Sieve □ % Moistur					
□ Ca	□Мо	ur se	ΟV	□ Br		□ Dissolved			2 % 3	Acismie		Ot	her Tests:	77.772.3000				i i	
□ Cd	□Na		□ Zn	NO:		□ Dissolved □ Rad 226	re		J. Sull DeH		7	∦ = X ∃ = H	RF Scan IGI	NPDES					
□Со	□Ni		□Hg			☐ Rad 228			o Cul	onides		F	ineness	O Oll & Gream					
□ Cr	□Pb		□ CrVI			□PCB			☐ Pen Sulfur	icie Siz		P	articulate Ma	tter HTSS					
						-	948-89-99												ŝ

# GW RLs (PPB):

Sb <5

As <5

Be < 0.5

Cd < 0.5

Cr <5

Co < 0.5

Pb <1

TI <1

Se <10 → ST. Laurs

\*\*All highlighted samples on the chains are samples already at Test America-Sav from prior analysis.

Eurofins Pittsburgh 301 Alpha Drive RIDC Park

# **Chain of Custody Record**

Pritsburgh, PA 15238 Phone 412-963-7058 Fax: 412-963-2468				ı										
Client Information (Sub Contract Lab)	Sampler			Lab PM: Lanier,	Lab PM: Lanıer, Jerry A				Carrier 1	Carrier Tracking No(s):	lo(s):		COC No: 180-462144 1	
	Phone:			E-Mail: Jerry l	.anier@	E-Mail: Jerry Lanier@et.eurofinsus.com	.com		State of Origin: South Carol	State of Origin: South Carolina			Page: Page 1 of 2	CL 1961
Company Company Eurofins Environment Testing Southeast,				7.2	ccreditati	Accreditations Required (See NELAP - Florida, State	ee note): e - South	ote): South Carolina,	a, State	State Program	3		Job #: 680-214698-1	
Address: 5102 LaRoche Avenue,	Due Date Requested: 5/5/2022	d.						sis Re	Requested	۵		900000000000000000000000000000000000000	Preservation Codes.	des. M - Hexane
City Savannah	TAT Requested (days):	ıys):									$\dashv$		B - NaOH C - Zn Acetate	N - None O - AsNaO2 P - Na2O4S
State, Zip: GA, 31404													D - Nitric Acid E - NaHSO4	Q - Na2SO3 R - Na2S2O3
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO#												G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
- 1	WO #:			- N	No)	Wetais								V - MCAA W - pH 4-5
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190			- /V-	es or	CFMS						4-1	L-EDA	Y - Trizma Z - other (specify)
Site	SSOW#:				SD (Y	00) 7							Other	
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, D=waste/oli,	rform MS/M	20B/3010A (M					***************************************		tal Number	
	V.	$\bigvee$	Preservation Code:		X			To the						
AF27221 (680-214698-1)	2/15/22	11 24 Eastern		Water		×								
AF27222 (680-214698-2)	2/16/22	13.46 Eastern		Water		×							1	
AF27223 (680-214698-3)	3/3/22	11 48 Eastern		Water		×								
AF27224 (680-214698-4)	3/2/22	13 54 Eastern		Water		×						-	-	
AF27225 (680-214698-5)	3/2/22	12.31 Eastern		Water		×								ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL
AF27226 (680-214698-6)	3/2/22	11 20 Eastern		Water		×								- Annahaman and
AF27227 (680-214698-7)	3/2/22	11.25 Eastern		Water		×								
AF27228 (680-214698-8)	3/3/22	13 06 Eastern		Water		×								
AF27229 (680-214698-9)	2/24/22	10 27 Eastern		Water		×					-			And Andrews Control of the Control o
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laborat maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Pittsburgh laboratory or other attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.	places the ownership of being analyzed the sather the sather the sather the signed Chain of Cu	of method, analy amples must be stody attesting t	te & accreditati shipped back to said complica	on compliance on the Eurofins Pance to Eurofins	pon out: ttsburgh Pittsburg	subcontract labo laboratory or oth n.	ratories. Ti er instructio	nis sample ons will be	shipment provided.	is forwar Any cha	ded under	chain-of creditation	-custody If the laborato on status should be brou	tories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh
Possible Hazard Identification Unconfirmed					Sam,	Sample Disposal ( A fee	( A fee r. lient	may be assessed if samples  Disposal By Lab	assessed if san Disposal By Lab	d if san I By Lat	npies a	re retai	are retained longer than 1	( month) Months
Deliverable Requested I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1	able Rank: 1			Spec	Special Instructions/	s/QC Re	QC Requirements	nts					
Empty Kit Relinquished by:		Date.			Time				Me	Method of Shipment	hipment			
Relinquished by	Samurana: 23	7	8	Company	4	Received by	M	M	Total		Date/Time:	<b>3</b>	124 10:30	Company
Relinquisted by:	Date/Time.		O	Company	20	Received by:					Date/Time:	-		Company
Relinquished by	Date/Time:		0	Company	70	Received by:					Date/Time:	. "		Company
Custody Seals Intact: Custody Seal No					0	Cooler Temperature(s) °C and Other Remarks:	re(s) °C an	d Other R	emarks:		7	/A	7	

Ver- 06/08/2021

# **Chain of Custody Record**

Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468	C	Chain of Custody Record	Custo	ody Re	1005	<u>a</u>									्रः er	🔆 eurofins	~~~~~	Environn America	Environment Testing America	ម្ចី 2 (Rev. 1)
Client Information (Sub Contract Lab)	Sampler			Lab PM: Lanier	Jerry A	>				Car	Carrier Tracking No(s).	ing No(s			000 No.	COC No. 180-462144.2	2			000
	Phone:			E-Mail: Jerry	_anier(	@et.eu	E-Mail: Jerry Lanier@et.eurofinsus co	com		Sta	State of Origin: South Carolina	n: olina			Page: Page	Page: Page 2 of 2				0.15
Company: Eurofins Environment Testing Southeast,			prily (Clip (GT) as as as a section of the control		CCTEDITA	Accreditations Requir NELAP - Florida,	Accreditations Required (See note). NELAP - Florida, State - Sou	e - Sou	th Care	olina, S	<sub>ote).</sub> South Carolina, State Program	ogram			Job #: 680-2	Job#: 680-214698-1	_			
Address. 5102 LaRoche Avenue,	Due Date Requested 5/5/2022					:		_ 1	nalysis F	Requested	sted				Prese	Preservation Codes	Codes	- Нехапе	*	
City Savannah	TAT Requested (days):	\$):													A - HCL B - NaOH C - Zn Ace	HCL NaOH Zn Acetate	OZ:	N - None O - AsNaO2	Ň (	
State Zip: GA, 31404						<del></del>									E-Na	D - Nitric Acid E - NaHSO4	ד ס ק	- Na2S0 - Na2S0 - Na2S2	යු ස <i>ග</i>	
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO#.				) 	-									G - Amchlor	MeOn Amchlor Ascorbic Acid		- H2SO4	S - H2SO4 T - TSP Dodecahydrate	rate
- 1	WO #					Metals		58 5						's	i - Ice J - Di Water	Vater		V - MCAA W - pH 4-5	rī	
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190					CPMS								taine	L-EDA	>	7 4	Y - Trizma Z - other (specify)	pecify)	
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Sample Identification - Client ID (1 ah ID)	Sample Date	Sample (C	Sample Type (C=comp,	Matrix (wawater S=solid, O=waste/oli,	Field Filtered Perform MS/N	5020B/3010A (N								Total Number		S pecia	linstr	ictions	Special Instructions/Note:	
	X	/ \	O)		$\leftarrow$									X						
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AF27231 (680-214698-11)	2/23/22	11 22 Eastern		Water		×								خند						
AF27232 (680-214698-12)	2/24/22	11 44 Eastern		Water		×														Pag
AF27233 (680-214698-13)	2/24/22	11 49 Eastern		Water		×								الخدر						
Possible Hazard Identification					San	nple Di	Sample Disposal ( A f	(A fee	may b	e asse	fee may be assessed if samples are retained longer	sampl	es are	retain	tained long	ger than	n 1 mo	month)	7	
Deliverable Requested I, II, III IV, Other (specify)	Primary Deliverable Rank.	le Rank. 1			Spe	cial Ins	Special Instructions/QC Requirements	/QC R	equirer	nents.										
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Custody Seals Intact: Custody Seal No						Cooler Te	Cooler Temperature(s)	റ്	nd Other	and Other Remarks	S.	_	6, 4		5	2				



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Page 34 of 39

## **Eurofins Savannah**

5102 LaRoche Avenue Savennah, GA 31404 Cux yes

# Chain of Custody Record



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Environment Testing America

Phone 912-354-7858 Fax: 912-352-0165													0.0008
Client Information (Sub Contract Lab)	TalcmgB			Lab Pvi Lanier		уА		- II	30-21 46	98 Chain o	f Custody	1111 1151111	16.1
Crem Contact Shipping/Receiving	Ptione:				_	_	eurofinsus Required (Se	_		South Can	ofina		Page 1 of 2
Company: Eurofins Environment Testing Northeast,									h Carolin	a; State Pro	gram		680-214698-1
Address: 301 Alpha Drive, RIDC Park,	Dee Date Requests 5/8/2022	id:						Analy	sis Re	quested			Preservation Codes:  A - HCL M - Hexane
Chy Pittsburgh	TAT Requested (da	ys):	Walley Barrier		T								B - NaOH A - Norte
Stale, Zin. PA, 15238				Н									C Zr Acetale O - AaNaO2 D - Nitric Acid P - Na2O4S E - NaH\$O4 Q - Na2SC3
Phone 412-963-7058(Tel) 412-963-2468(Fax)	PQ#				ė				ļ	Ì			F - MeOH R - Na25203 G - Amachlor S - H2504 H - Ascorbic Apid T - TSP Dodecatydrate
Email:	WO #:				or No	Mela							I - Ice U - Acetons J - Di Water V - MCAA
Project Name: 125915/JM02.08.G01.1/36500	Project # 68008190				arad Sample (Yos or MS/MSD (Yes or No)	CPMS						confaire	K - EDTA W - pH 4-5 L - EDA 2 - other (specify)
Site.	580\V#	- 47			ASD (Y	400kg						0	
Sample identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Mate Type (vr— (C=comp. Send G=grab) ar-rises	iter.	E E	80208/3010A (MOD) 2 ICPMS Melale						Total Number	Special Instructions/Note:
Sample Identification - Client ID (Cab ID)	Galliple Date		Preservation Co		Złk							X	Special insubstitutions
AF27221 (680-214698-1)	2/15/22	11:24 Eastam	Wat	er		х						1	
AF27222 (680-214698-2)	2/16/22	13:45 Eastern	Wat	er	T	Х						1	
AF27223 (680-214698-3)	3/3/22	11:48 Eastern	Wat	er		х						1	
AF27224 (680-214698-4)	3/2/22	13:54 Eastern	Wat	es l		Х						1	
AF27225 (680-214698-5)	3/2/22	12:31 Eastern	tvat	~		Х						1	
AF27226 (680-214698-6)	3/2/22	11:20 Eastern	Wat	8.		Х	1				100	] 1	
AF27227 (680-214698-7)	3/2/22	11:25 Easlem	' Wal	e.	3	x						1	
AF27228 (66D-214698-8)	3/3/22	13:08 Eastern	Wat	er		Х						1	
AF27229 (680-214698-9)	2/24/22	10:27 Eastern	Wat	*		Х						1	
Note: Since laboratory accreditations are subject to change. Eurofins Endoes not currently maintain accreditation in the State of Origin (state about a status should be brough) to Eurofins Environment Teating Southeast, L	we for analysis/tests/matrix ber	ig analyzed. 1	he samples must be ship	oped bac	skito lihe	9 Euro	fins Environm	ent Testa	ig Southea	şi, ÇÇÇ laboratı	any or other ms	dructions w	via be provided. Any changes to accreditation
Possible Hezard Identification Unconfirmed					San E		Disposal ( etym To Cl			ssessed if Disposal By	200		ned langer than 1 month) hive For Months
Deliverable Requested: J. II, III, IV, Other (specify)	Frimary Delivers	ble Rank;	1		Spe	ecial	Instructions	JOC Re	equireme	nts:		1	
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Custody Seals Intact; Custody Seal No.:						Codle	r Temperatus	e(s) °C ar	id Ölher Ri	gmarks:		-	

## **Eurofins Savannah**

5102 LaRoche Avenue Savar.nah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0185

# **Chain of Custody Record**

🚱 eurofins

Environment Testing

America

Client Information (Sub Contract Lab)	Sampler:			Lan	er, Je	апу А				Cerrier Tracking	No(a)		GDC Ne: 680-692536.2	
Cieni Conset.	Prone:			E-Ma	el:			W. 10 A. 2020		State of Driger:			Page:	
Shipping/Receiving Consery				Jen			Buroficeus Requires (Se			South Caroli	na	-	Page 2 of 2 Job 4.	
Eurofins Environment Testing Northeast,				1					h Carol	lina; State Progr	ram		980-214998-1	
doress	Que Date Request	ed:			1								Preservation Codes:	
01: Alpha Drive, RIDC Park	5/8/2022				_	,		Analy	sis R	equested			A-HCL M-H	exane
ily Pittsburgh	TAT Requested (d.	mys);								i			B-NaOH N-Na C-Zn Apalate O-A	one aNaO2
Halte, Zip:											i		Q - Nitine Acid P - Ni	2045
A, 15238									1		1. 111			#2SO3 #2S2O3
ore 12-963-7058(Tel) 412-963-2468(Fax)	PO #:												G - Amohior 5 - Hi	2504
neil:	WO#:	_	***	1	12	Melats	lg.							SP Dodecahydrate pelone
					10 10	Me Me						2	J - D Water V - M K - EDTA W - G	
njed Name:	Project #	- 10-10-	1111		18	(Yes or N						containers	L-EDA Z-08	her (specify)
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	340414.				E	IMODI		1.1				0,50	- Called	
				Marketin.	S Pe	MS/MSD (Yes or No) 10A (MOD) 2 ICPMS Met					9	Total Number of		- 757
			Sample Type	Matrix (versee.	1 S	# BRTOTTO MIS 8020B(3010A		1 1	. 1			1		
		Sample	40	Swelld,	# P	DBC3		4 1						
ample Identification Client ID (Lab ID)	Sample Date	Time	A CONTRACTOR OF THE PARTY OF TH	Times, Anar	Fle	8020Br301							Special Instruct	tions/Note:
		><	Preservatio	n Code:	X							X		
27230 (660-214698-10)	2/24/22	10:33 Eastern		Water	П	×						1		
-27231 (680-214698-51)	2/23/27	11:22 Eastern		Water		х			Ī			1		- 12 31 B
F27232 (680-214698-12)	2/24/22	11:44 Eastem		Water		х						1		
F27233 (G80-214698-13)	2/24/22	11:49 Eastern		Water	11	Х			ı			1		
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es not currently maintain accreditation in the State of Origin Issuel abor the should be brought to Eurofins Environment Testing Southeast. LUI	ve for analysis/lests/matrix béi Clemention immediately i It all	ng analyzéd, t requested acc	he samples must b radications are cur	e shipped b and to date.	rebut.	the Euro the signs	fing Environmed Chain of Ci	emi Testino uslocky atte	g Southe esting to	east, LLC laboratory said complicance to	or ather est DEGrafine En	wironmen Wironmen	ill be provided. Any changes Testing Southeast, LLC	to accreditation
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reconfirmed eliverable Requested. I, II. III, IV, Other (specify)	Dries and Dalling	able Deel-			-	- 2.2	eturn To Ca Instructions	70000		Disposal By La	ab T	Arci	hive ForM	onths
siveracie requested I, ii. III, IV, Other (specity)	Primary Deliver	able Ranic			15	phecial	I I ST GC I O II	WZU NB	dnieu	PO 193.	L.			
ripty Kit Relinquished by:		Date:			Time	e:		110		Method of	Shipment	Ĭ.		
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	4													

Page 36 of 39

# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-214698-1

Login Number: 214698 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	

# . .

# 11



# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority Job Number: 680-214698-1

Login Number: 214698

List Source: Eurofins Pittsburgh List Number: 2 List Creation: 05/03/22 05:29 PM

Creator: Watson, Debbie

Creator. Watson, Debbie		
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	
s the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214698-1

## **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	06-30-22
- Court Curtoning	O. C. C.	90001	33 33 22

## **Laboratory: Eurofins Pittsburgh**

The accreditations/certifications listed below are applicable to this report.

Authority		Program	Identification Number	Expiration Date
	South Carolina	State	89014	05-19-22





March 15, 2022

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

RE: Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

## Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

· Pace Analytical Services - Asheville

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

Sincerely,

Tyriek Hooks

tyriek.hooks@pacelabs.com (704)875-9092

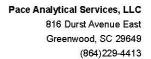
Tyrick Hooks

Project Manager

Enclosures

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







## **CERTIFICATIONS**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648 North Carolina Drinking Water Certification #: 37712 North Carolina Wastewater Certification #: 40 South Carolina Laboratory ID: 99030 South Carolina Certification #: 99030001 Virginia/VELAP Certification #: 460222

## **REPORT OF LABORATORY ANALYSIS**



## **SAMPLE ANALYTE COUNT**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92591495001	AF27204	EPA 7470A	DBB1	1	PASI-A
92591495002	AF27206	EPA 7470A	DBB1	1	PASI-A
92591495003	AF27205	EPA 7470A	DBB1	1	PASI-A
92591495004	AF27199	EPA 7470A	DBB1	1	PASI-A
92591495005	AF27200	EPA 7470A	DBB1	1	PASI-A
92591495006	AF27201	EPA 7470A	DBB1	1	PASI-A
92591495007	AF27208	EPA 7470A	DBB1	1	PASI-A
2591495008	AF27218	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville



### **ANALYTICAL RESULTS**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27204 Lab ID: 92591495001 Collected: 02/28/22 12:11 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury 1.2 ug/L 1.0 1 03/11/22 16:00 03/15/22 09:44 7439-97-6

## **REPORT OF LABORATORY ANALYSIS**





## **ANALYTICAL RESULTS**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27206 Lab ID: 92591495002 Collected: 02/28/22 14:02 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:46 7439-97-6

## **REPORT OF LABORATORY ANALYSIS**



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27205 Lab ID: 92591495003 Collected: 02/28/22 15:21 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:48 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27199 Lab ID: 92591495004 Collected: 03/01/22 11:49 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:50 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27200 Lab ID: 92591495005 Collected: 03/01/22 11:54 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:52 7439-97-6





Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27201 Lab ID: 92591495006 Collected: 03/01/22 13:01 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:54 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27208 Lab ID: 92591495007 Collected: 03/01/22 14:37 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:56 7439-97-6



Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Sample: AF27218 Lab ID: 92591495008 Collected: 03/01/22 15:55 Received: 03/04/22 10:45 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Pace Analytical Services - Asheville

Mercury ND ug/L 0.20 1 03/11/22 16:00 03/15/22 09:59 7439-97-6



#### **QUALITY CONTROL DATA**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

QC Batch: 683593 Analysis Method: EPA 7470A

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

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92591495001, 92591495002, 92591495003, 92591495004, 92591495005, 92591495006, 92591495007,

92591495008

METHOD BLANK: 3575628 Matrix: Water

Associated Lab Samples: 92591495001, 92591495002, 92591495003, 92591495004, 92591495005, 92591495006, 92591495007,

92591495008

 Parameter
 Units
 Blank Reporting Result
 Limit
 Analyzed
 Qualifiers

 Mercury
 ug/L
 ND
 0.20
 03/15/22 09:40

LABORATORY CONTROL SAMPLE: 3575629

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 2.5 2.6 103 80-120 Mercury ug/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3575630 3575631

MS MSD 92591283003 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc Conc. Result Result % Rec % Rec Limits RPD Qual ND 2.5 2.5 2.5 2.2 75-125 Mercury ug/L 98 87 11

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



#### **QUALIFIERS**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

#### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

Date: 03/15/2022 02:25 PM



#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 121567/JM02.09.G01/36500

Pace Project No.: 92591495

Date: 03/15/2022 02:25 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591495001	AF27204	EPA 7470A	683593	EPA 7470A	684407
92591495002	AF27206	EPA 7470A	683593	EPA 7470A	684407
92591495003	AF27205	EPA 7470A	683593	EPA 7470A	684407
92591495004	AF27199	EPA 7470A	683593	EPA 7470A	684407
92591495005	AF27200	EPA 7470A	683593	EPA 7470A	684407
92591495006	AF27201	EPA 7470A	683593	EPA 7470A	684407
92591495007	AF27208	EPA 7470A	683593	EPA 7470A	684407
92591495008	AF27218	EPA 7470A	683593	EPA 7470A	684407

# Pace Analytical\*

# Document Name: Sample Condition Upon Receipt (SCUR) Document No.: F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
Page 1 of 2
Issuing Authority:
Page Carolinas Quality Office

Laboratory receiving samples: Asheville	Huntersville	Raleigh	Mechanicsville Atlanta Kernersville
Sample Condition Client Name: Upon Receipt	ma ne n	Proje	кt# W0#:92591495
Courier: See Ex U  Commercial Pace	PS USPS Other:	Client	92591495
ustody Seal Present? Yes XNo S	Seals Intact? Yes	KINO	Date/Initials Person Examining Contents 3-4-22 AR
acking Material: Bubble Wrap.  Diermometer:  Dirk Gun ID: MA  Correction F  Add/Subtra	¥ . A	Other	Biological Tissue Frozen?  Yes No MN/A  Temp should be above freezing to 6°C
ooler Temp Corrected (°C):  SDA Regulated Soll ( X N/A, water sample): d samples originate in a quarantine zone within the	United States: CA, NY, or SC (d	check maps)?	☐Samples out of temp criteria. Samples on ice, cooling process has begun.  Did samples of ginate from a foreign source (internationally, including fawaii and Puerto Rico)? ☐ Yes ☐ No.
			Comments/Discrepancy:
Chain of Custody Present?	XYes No. [	]N/A 1.	
Samples Arrived within Hold Time?	X Yes No [	]N/A 2.	
Short Hold Time Analysis (<72 hr.)?	□Yes Na [	]N/A 3.	Control in the control of the contro
Rush Turn Around Time Requested?	Yes No [	□N/A 4.	
Sufficient Volume?	X Yes □Na □	]N/A 5.	
Correct Containers Used? :Pace Containers Used?	XYes □No □	□N/A 6. □N/A	and and the same of the same o
Containers Intact?	XiYes: □No . □	]N/A	
Dissolved analysis: Samples Field Filtered?		Øn/A 8.	
Sample Labels Match COC?	\$4.	]n/∧ .9.	, , , , , , , , , , , , , , , , , , , ,
-Includes Date/Time/ID/Analysis Matrix:	WI		
Heads pace in VOA Vials (>5-6mm)?	Yes No P	IN/A 10.	
Trip Blank Present?		QN/A 11.	
Trip Blank Custody Seals Present?	□Yes □No D	ANA	
COMMENTS/SAMPLE DISCREPANCY	, a =		Field Data Required? ☐ Yes ☐ No
LIENT NOTIFICATION/RESOLUTION		lo	t ID of split containers:
	1		
Person contacted:		Date/Time:	
Project Manager SCURF Review:	.,		Date:
Project Manager SRF Review:			Date:



### Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

Issuing Authority:

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

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

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

Project #

:92591495

PM: TIH

Due Date: 03/18/22

CLIENT: 97-SanteeCoo

#田3	BP4U-125_mt_Plastic_Uppreserved (N/A) (CI-)	8P3U-250 mt. Plastic Unpreserved (N/A)	8P2U-500 ml. Plastic Unpreserved (N/A)	BP1U-1 [feer Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SG4 (pH < 2) (CI-)	BP3N-250.mt.plastic HNG3 (pH < 2)	8P4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CF)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CP)	A61H-1 liter Amber HCI (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AGIS-1 liter Amber H2SD4 (pH.<2)	AG35-250 mL Amber H2504 (pH < 2)	AG3A[DG3A]-250 mL Amber NH4CI [N/A](CI-)	DG9H-40 mLVOA HCI (N/A)	WG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per ldt)-VPH/Gas kit (N/A)	SPST-125 mt Sterile Plastic (N/A - lab)	SPZT-250 mt Sterile Plastic (N/A – lab)		BP3A-250 m, Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N.P.)	VSGU-20 mt Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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12	1				1																			V				

	2 2 6	pH Ac	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
-						
				<del></del>		

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

# **Chain of Custody**



Sentee Caoper One Riverwood Drive Monelie Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

LCWILLIA @santeecooper.com	
3	
	nalysis Group
Caboronis ID # Sample Location//  (Internal use Description E B B B B W Method #/  phy)	
B B B B B B B B B B B B B B B B B B B	
2 S S S S S S S S S S S S S S S S S S S	
AT-27204 WAP-14A 2/28/22 1211 BK BGB 1 \$ G GW 2 7470 Cey \$	
206 14C 1402 1 1 Ce 2 1	
205 - 148 - 1521 - 1621	
199 12 8/1/22 1149 00 9	
200 12 DUP 1154 1154	
201 13. 1501	
208 1 16 1 1437 1 1 1 1 Qe 7 1	
1 218 WAP-25 1 1655 1 1 1 1 1 Qe & 1	
Sample Receiving Internal Use Only TEMP (°C): A H Initial:	'AR
89 moun 3/3/22 1500 A. Rucker PREJAVL 3-4-22 1045 Correct pH: Yes No	
Preservative Latts:	
Pate/Time/Init for preservative;	• •
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Mineral Report Andrews	



# **Environment Testing America**

# ANALYTICAL REPORT

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-214695-1

Client Project/Site: 125915/JM02.08.G01.1/36500

Revision: 1

For:

South Carolina Public Service Authority Santee Cooper PO BOX 2946101 Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by: 5/27/2022 2:32:42 PM

Jerry Lanier, Project Manager I (912)250-0281

Jerry.Lanier@et.eurofinsus.com

·····LINKS ······

Review your project results through

**Have a Question?** 



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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# **Table of Contents**

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### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

Job ID: 680-214695-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-214695-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.3° 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: 125915/JM02.08.G01.1/36500

680-214695-21

680-214695-22

AF27219

AF27220

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-214695-1	AF27199	Water	03/01/22 11:49	04/28/22 10:30
680-214695-2	AF27200	Water	03/01/22 11:54	04/28/22 10:30
680-214695-3	AF27201	Water	03/01/22 13:01	04/28/22 10:30
680-214695-4	AF27202	Water	02/28/22 13:02	04/28/22 10:30
680-214695-5	AF27203	Water	02/28/22 13:07	04/28/22 10:30
880-214695-6	AF27204	Water	02/28/22 12:11	04/28/22 10:30
680-214695-7	AF27205	Water	02/28/22 15:21	04/28/22 10:30
880-214695-8	AF27206	Water	02/28/22 14:02	04/28/22 10:30
80-214695-9	AF27207	Water	02/28/22 10:29	04/28/22 10:30
80-214695-10	AF27208	Water	03/01/22 14:37	04/28/22 10:30
80-214695-11	AF27209	Water	02/24/22 13:37	04/28/22 10:30
30-214695-12	AF27210	Water	02/24/22 13:42	04/28/22 10:30
80-214695-13	AF27211	Water	02/23/22 12:18	04/28/22 10:30
80-214695-14	AF27212	Water	02/22/22 15:14	04/28/22 10:30
80-214695-15	AF27213	Water	03/07/22 10:37	04/28/22 10:30
80-214695-16	AF27214	Water	02/22/22 12:04	04/28/22 10:30
80-214695-17	AF27215	Water	02/23/22 14:00	04/28/22 10:30
80-214695-18	AF27216	Water	02/22/22 13:40	04/28/22 10:30
80-214695-19	AF27217	Water	02/22/22 10:18	04/28/22 10:30
80-214695-20	AF27218	Water	03/01/22 15:55	04/28/22 10:30

Water

Water

02/24/22 14:59 04/28/22 10:30

02/24/22 15:04 04/28/22 10:30

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Job ID: 680-214695-1

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

Method	Method Description	Protocol	Laboratory	
6020B	Metals (ICP/MS)	SW846	TAL SAV	
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT	
3010A	Preparation, Total Metals	SW846	TAL PIT	
3010A	Preparation, Total Metals	SW846	TAL SAV	

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058 TAL 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: 680-214695-1

#### Qualifiers

V	e	ta	S

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.
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

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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Job ID: 680-214695-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27199						Lab Sa	an	ple ID: 68	0-214695-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.05	-	5.00		ug/L	1	-	6020B	Total/NA
Client Sample ID: AF27200						Lab Sa	an	ple ID: 68	0-214695-2
Analyte		Qualifier	RL	MDL	Unit	The second secon		Method	Prep Type
Cobalt	4.55		0.500		ug/L	1		6020B	Total/NA
Client Sample ID: AF27201						Lab Sa	an	ple ID: 68	0-214695-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.560		0.500	***	ug/L	1		6020B	Total/NA
Client Sample ID: AF27202						Lab S	an	ple ID: 68	0-214695-4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	31.7	Control of the Control of Control	3.00		ug/L	1	_	6020B	Total/NA
Client Sample ID: AF27203						Lab Sa	an	ple ID: 68	0-214695-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	58.7		3.00		ug/L	1		6020B	Total/NA
Cobalt	1.15		0.500		ug/L	1		6020B	Total/NA
Antimony	3.30		2.00		ug/L	1		EPA 6020B	Total/NA
Client Sample ID: AF27204						Lab Sa	an	ple ID: 68	0-214695-6
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.89	S. Commission of the Commissio	3.00		ug/L	1		6020B	Total/NA
Client Sample ID: AF27205						Lab Sa	an	ple ID: 68	0-214695-7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14.3		3.00		ug/L			6020B	Total/NA
Client Sample ID: AF27206					****	Lab S	an	ple ID: 68	0-214695-8
Analyte	Rocult	Qualifier	RL	MDL	Unit			Method	Prep Type
Cobalt	1.92	- Califfer	0.500	IVIDE	ug/L	1	_	6020B	Total/NA
Client Sample ID: AF27207	500.5 - A.C. 1875.1		000000000000000000000000000000000000000			Lab Sa	an	ple ID: 68	0-214695-9
No Detections.						5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7
Client Sample ID: AF27208						Lab Sai	m	ole ID: 680	-214695-10
No Detections.									
Client Sample ID: AF27209						Lab Sa	m	ole ID: 680	-214695-11
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	153	2004 0 400 1000 ACRES	3.00		ug/L			6020B	Total/NA
Client Sample ID: AF27210						Lab Sai	m	ole ID: 680	-214695-12
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	155		3.00	.,,,,,,	ug/L	1	Ξ	6020B	Total/NA
					39574				

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Job ID: 680-214695-1

Lab Sample ID: 680-214695-13

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF27211

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Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
82.1	·	3.00		ug/L	1	6020B	Total/NA
1.92		0.500		ug/L	1	6020B	Total/NA
					Lab San	nple ID: 68	0-214695-14
Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
199		3.00		ug/L	1	6020B	Total/NA
					Lab San	nple ID: 68	0-214695-15
Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
158		3.00	100.00000000000000000000000000000000000	ug/L		6020B	Total/NA
1.32		0.500		ug/L	1	6020B	Total/NA
138		5.00		ug/L	1	6020B	Total/NA
9.86		0.500		ug/L	1	6020B	Total/NA
71.6		2.50		ug/L	1	6020B	Total/NA
2.16		2.00		ug/L	1	EPA 6020B	Total/NA
					Lab San	nple ID: 68	0-214695-16
					Lab San	nple ID: 68	0-214695-17
Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
131		30.0	-	ug/L	1	6020B	Total/NA
					Lab San	nple ID: 68	0-214695-18
					Lab San	nple ID: 68	0-214695-19
					Lab San	nple ID: 680	0-214695-20
Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
9.19		5.00		ug/L	1	6020B	Total/NA
					Lab San	nple ID: 68	0-214695-21
	Result 158 1.32 138 9.86 71.6 2.16  Result 131	Result   Qualifier   199	82.1         3.00           1.92         0.500           Result 199         Qualifier 3.00           158         3.00           1.32         0.500           138         5.00           9.86         0.500           71.6         2.50           2.16         2.00           Result Qualifier RL           131         30.0	Result   Qualifier   RL   MDL	Result   Qualifier   RL   MDL   Unit   ug/L	Result   Qualifier   RL   MDL   Unit   Uni	Result   Qualifier   RL   MDL   Unit   Dil Fac   Dil F

No Detections.

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-1

Matrix: Water

Job ID: 680-214695-1

Date Collected: 03/01/22 11:49 Date Received: 04/28/22 10:30

Client Sample ID: AF27199

Method: 6020B - Metals	(ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	30.0	U	30.0		ug/L		05/24/22 17:36	05/25/22 22:21	1
Beryllium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:21	1
Cadmium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:21	1
Chromium	50.0	U	50.0		ug/L		05/24/22 17:36	05/25/22 22:21	1
Cobalt	5.05		5.00		ug/L		05/24/22 17:36	05/25/22 22:21	1
Lead	25.0	U	25.0		ug/L		05/24/22 17:36	05/25/22 22:21	1
Thallium	10.0	U	10.0		ug/L		05/24/22 17:36	05/25/22 22:21	1

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 14:06	1
Selenium	5 00	U	5.00		ua/l		05/10/22 12:07	05/11/22 14:06	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-2

Job ID: 680-214695-1

Client Sample ID: AF27200 Date Collected: 03/01/22 11:54 Date Received: 04/28/22 10:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:24	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:24	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:24	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:24	1
Cobalt	4.55		0.500		ug/L		05/24/22 17:36	05/25/22 22:24	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:24	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:24	1

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 14:55	1
Selenium	5.00	П	5.00		ua/l		05/10/22 12:07	05/11/22 14:55	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-3

Imple ID. 000-2 14050-0

Job ID: 680-214695-1

Matrix: Water

Client Sample ID: AF27201

Date Collected: 03/01/22 13:01 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:26	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:26	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:26	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:26	1
Cobalt	0.560		0.500		ug/L		05/24/22 17:36	05/25/22 22:26	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:26	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:26	1

	Method: EPA 6020B - Metals (ICI	P/MS)								
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 14:58	1
1	Selenium	5.00	П	5.00		ua/l		05/10/22 12:07	05/11/22 14:58	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-4

Matrix: Water

Job ID: 680-214695-1

**Client Sample ID: AF27202** Date Collected: 02/28/22 13:02

Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31.7	-	3.00		ug/L		05/24/22 17:36	05/25/22 22:00	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:00	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:00	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:00	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:00	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:00	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:00	1

	Method: EPA 6020B - Metals (IG	CP/MS)								
1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1	Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 15:12	1
3	Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 15:12	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-5

Matrix: Water

Job ID: 680-214695-1

Client Sample ID: AF27203 Date Collected: 02/28/22 13:07 Date Received: 04/28/22 10:30

Method: 6020B - Metals	(ICP/MS)								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	58.7		3.00		ug/L		05/24/22 17:36	05/25/22 22:03	1
Beryllium	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 22:03	1
Cadmium	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 22:03	1
Chromium	5.00 L	J	5.00		ug/L		05/24/22 17:36	05/25/22 22:03	1
Cobalt	1.15		0.500		ug/L		05/24/22 17:36	05/25/22 22:03	1
Lead	2.50 U	J	2.50		ug/L		05/24/22 17:36	05/25/22 22:03	1
Thallium	1.00 L	J	1.00		ug/L		05/24/22 17:36	05/25/22 22:03	1

Method: EPA 6020B - N	letals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.30		2.00		ug/L		05/10/22 12:07	05/11/22 15:33	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 15:33	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-6

Matrix: Water

Job ID: 680-214695-1

Client Sample ID: AF27204
Date Collected: 02/28/22 12:11
Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit **Prepared** Dil Fac Analyzed Arsenic 6.89 3.00 ug/L 05/24/22 17:36 05/25/22 22:06 Beryllium 0.500 0.500 U 05/24/22 17:36 05/25/22 22:06 ug/L Cadmium 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 22:06 Chromium 05/24/22 17:36 05/25/22 22:06 5.00 U 5.00 ug/L

Chromium 5.00 U 5.00 ug/L 05/24/22 17:36 05/25/22 22:06

Cobalt 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 22:06

Lead 2.50 U 2.50 ug/L 05/24/22 17:36 05/25/22 22:06

Thallium 1.00 U 1.00 ug/L 05/24/22 17:36 05/25/22 22:06

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

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 15:47	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 15:47	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

**Client Sample ID: AF27205** 

Lab Sample ID: 680-214695-7

Matrix: Water

Job ID: 680-214695-1

Date Collected: 02/28/22 15:21 Date Received: 04/28/22 10:30

Deput							12 Mary Victor 2 Harmonia Arra	-
resuit	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
14.3	-	3.00		ug/L		05/24/22 17:36	05/25/22 22:13	1
0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:13	1
0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:13	1
5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:13	1
0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:13	1
2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:13	1
1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:13	1
	14.3 0.500 0.500 5.00 0.500 2.50	Result Qualifier  14.3  0.500 U  0.500 U  5.00 U  0.500 U  2.50 U  1.00 U	14.3     3.00       0.500 U     0.500       0.500 U     0.500       5.00 U     5.00       0.500 U     0.500       2.50 U     2.50	14.3 3.00 0.500 U 0.500 0.500 U 0.500 5.00 U 5.00 0.500 U 0.500 2.50 U 2.50	14.3     3.00     ug/L       0.500 U     0.500     ug/L       0.500 U     0.500     ug/L       5.00 U     5.00     ug/L       0.500 U     0.500     ug/L       2.50 U     2.50     ug/L	14.3     3.00     ug/L       0.500 U     0.500     ug/L       0.500 U     0.500     ug/L       5.00 U     5.00     ug/L       0.500 U     0.500     ug/L       2.50 U     2.50     ug/L	14.3     3.00     ug/L     05/24/22 17:36       0.500 U     0.500     ug/L     05/24/22 17:36       0.500 U     0.500     ug/L     05/24/22 17:36       5.00 U     5.00     ug/L     05/24/22 17:36       0.500 U     0.500     ug/L     05/24/22 17:36       2.50 U     2.50     ug/L     05/24/22 17:36	14.3     3.00     ug/L     05/24/22 17:36     05/25/22 22:13       0.500 U     0.500     ug/L     05/24/22 17:36     05/25/22 22:13       0.500 U     0.500     ug/L     05/24/22 17:36     05/25/22 22:13       5.00 U     5.00     ug/L     05/24/22 17:36     05/25/22 22:13       0.500 U     0.500     ug/L     05/24/22 17:36     05/25/22 22:13       0.500 U     0.500     ug/L     05/24/22 17:36     05/25/22 22:13       2.50 U     2.50     ug/L     05/24/22 17:36     05/25/22 22:13

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:01	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:01	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-8

Matrix: Water

Job ID: 680-214695-1

Date Collected: 02/28/22 14:02 Date Received: 04/28/22 10:30

Client Sample ID: AF27206

Method: 6020B - Metals	(ICP/MS)								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00 U	J	3.00		ug/L		05/24/22 17:36	05/25/22 22:16	1
Beryllium	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 22:16	1
Cadmium	0.500 L	J	0.500		ug/L		05/24/22 17:36	05/25/22 22:16	1
Chromium	5.00 L	J	5.00		ug/L		05/24/22 17:36	05/25/22 22:16	1
Cobalt	1.92		0.500		ug/L		05/24/22 17:36	05/25/22 22:16	1
Lead	2.50 U	J	2.50		ug/L		05/24/22 17:36	05/25/22 22:16	1
Thallium	1.00 L	J	1.00		ug/L		05/24/22 17:36	05/25/22 22:16	1

Method: EPA 6020B	- Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:15	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:15	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-9

Matrix: Water

Job ID: 680-214695-1

Date Collected: 02/28/22 10:29 Date Received: 04/28/22 10:30

**Client Sample ID: AF27207** 

Method: 6020B - Metals	(ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:18	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:18	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:18	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:18	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:18	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:18	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:18	1

Method: EPA 6020B	- Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:19	1
Selenium	5.00	П	5.00		ua/l		05/10/22 12:07	05/11/22 16:19	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-10

. ID. 000-2 14030-10

Job ID: 680-214695-1

Matrix: Water

Client Sample ID: AF27208 Date Collected: 03/01/22 14:37

Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:02	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:02	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:02	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:02	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:02	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:02	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 09:02	1

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:33	1
Selenium	5.00	П	5.00		ua/l		05/10/22 12:07	05/11/22 16:33	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-11

05/10/22 12:07 05/11/22 16:36

Matrix: Water

Job ID: 680-214695-1

<b>Client Sample</b>	ID:	AF	27209
Date Collected: 0	2/2/	122	12-27

Date Received: 04/28/22 10:30

Selenium

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	153		3.00		ug/L		05/24/22 17:36	05/25/22 21:35	1
Beryllium	0.500	Ü	0.500		ug/L		05/24/22 17:36	05/25/22 21:35	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:35	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:35	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:35	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:35	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:35	1
Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	A STATE OF THE PARTY OF THE PAR	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

ug/L

5.00 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-12

D1 000 H11000 1H

Job ID: 680-214695-1

Matrix: Water

Client Sample ID: AF27210

Date Collected: 02/24/22 13:42 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	155		3.00		ug/L		05/24/22 17:36	05/25/22 21:42	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:42	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:42	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:42	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:42	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:42	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:42	1

-1	Method: EPA 6020B - Metal	s (ICP/MS)								
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:50	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-13

Prepared

05/10/22 12:07 05/11/22 17:04

Analyzed

Matrix: Water

Job ID: 680-214695-1

**Client Sample ID: AF27211** 

Date Collected: 02/23/22 12:18 Date Received: 04/28/22 10:30

Analyte

Selenium

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	82.1		3.00		ug/L		05/24/22 16:11	05/25/22 21:04	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:04	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:04	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 21:04	1
Cobalt	1.92		0.500		ug/L		05/24/22 16:11	05/25/22 21:04	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 21:04	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 21:04	1

RL

5.00

**MDL** Unit

ug/L

Result Qualifier

5.00 U

Dil Fac

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-14

IC ID. 000-2 14000-14

Job ID: 680-214695-1

Matrix: Water

Date Collected: 02/22/22 15:14 Date Received: 04/28/22 10:30

**Client Sample ID: AF27212** 

Method: 6020B - Metals	s (ICP/MS)								
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	199		3.00		ug/L		05/24/22 16:11	05/25/22 20:53	1
Beryllium	0.500 U	J	0.500		ug/L		05/24/22 16:11	05/25/22 20:53	1
Cadmium	0.500 U	J	0.500		ug/L		05/24/22 16:11	05/25/22 20:53	1
Chromium	5.00 U	J	5.00		ug/L		05/24/22 16:11	05/25/22 20:53	1
Cobalt	0.500 U	J	0.500		ug/L		05/24/22 16:11	05/25/22 20:53	1
Lead	2.50 U	J	2.50		ug/L		05/24/22 16:11	05/25/22 20:53	1
Thallium	1.00 U	J	1.00		ug/L		05/24/22 16:11	05/25/22 20:53	1

Method: EPA 6020B - Metals (ICP/MS)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 17:14	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-15

Matrix: Water

Job ID: 680-214695-1

**Client Sample ID: AF27213** Date Collected: 03/07/22 10:37

Date Received: 04/28/22 10:30

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	158		3.00		ug/L		05/25/22 10:44	05/26/22 09:38	1
Beryllium	1.32		0.500		ug/L		05/25/22 10:44	05/26/22 09:38	1
Cadmium	0.500 L	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:38	1
Chromium	138		5.00		ug/L		05/25/22 10:44	05/26/22 09:38	1
Cobalt	9.86		0.500		ug/L		05/25/22 10:44	05/26/22 09:38	1
Lead	71.6		2.50		ug/L		05/25/22 10:44	05/26/22 09:38	1
Thallium	1.00 l	U	1.00		ug/L		05/25/22 10:44	05/26/22 09:38	1

Method: EPA 6020B - Metals (ICP/MS)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Antimony	2.16		2.00		ug/L		05/10/22 12:07	05/11/22 17:28	1
	Selenium	5.00	U	5.00		ua/L		05/10/22 12:07	05/11/22 17:28	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-16

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Job ID: 680-214695-1

Matrix: Water

Client Sample ID: AF27214

Date Collected: 02/22/22 12:04 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:56	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:56	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:56	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:56	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:56	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:56	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:56	1

Method: EPA 6020B - Metals (ICP/MS)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 17:32	1
	Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 17:32	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-17

Job ID: 680-214695-1

Matrix: Water

Client Sample ID: AF27215

Date Collected: 02/23/22 14:00 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	131		30.0		ug/L		05/24/22 17:36	05/25/22 21:30	1
Beryllium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:30	1
Cadmium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:30	1
Chromium	50.0	U	50.0		ug/L		05/24/22 17:36	05/25/22 21:30	1
Cobalt	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:30	1
Lead	25.0	U	25.0		ug/L		05/24/22 17:36	05/25/22 21:30	1
Thallium	10.0	U	10.0		ug/L		05/24/22 17:36	05/25/22 21:30	1

Method: EPA 6020B - I	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 17:42	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 17:42	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-18

Job ID: 680-214695-1

Matrix: Water

**Client Sample ID: AF27216** 

Date Collected: 02/22/22 13:40 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:59	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:59	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:59	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:59	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:59	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:59	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:59	1

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:49	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:49	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-19

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Matrix: Water

Job ID: 680-214695-1

Client Sample ID: AF27217 Date Collected: 02/22/22 10:18

Date Received: 04/28/22 10:30

Method: 6020B - Meta	Is (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 21:01	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:01	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:01	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 21:01	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:01	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 21:01	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 21:01	1
Barium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 21:01	1

Method: EPA 6020B - Me	etals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:52	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:52	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-20

Matrix: Water

Job ID: 680-214695-1

Client Sample ID: AF27218 Date Collected: 03/01/22 15:55 Date Received: 04/28/22 10:30

Method: 6020B - Meta	Is (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:15	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:15	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:15	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:15	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:15	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:15	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 09:15	1
Barium	9.19		5.00		ug/L		05/25/22 10:44	05/26/22 09:15	1

Method: EPA 6020B - Me	tals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:56	1
Selenium	5.00	II	5.00		ua/L		05/10/22 12:03	05/11/22 18:56	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-21

Odmpic ID. 000-214030-21

Matrix: Water

Job ID: 680-214695-1

Client Sample ID: AF27219

Date Collected: 02/24/22 14:59 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 21:45	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:45	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:45	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:45	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:45	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:45	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:45	1

Method: EPA 6020B -	Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:59	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:59	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-214695-22

Job ID: 680-214695-1

Matrix: Water

Client Sample ID: AF27220

Date Collected: 02/24/22 15:04 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 21:48	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:48	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:48	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:48	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:48	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:48	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:48	1

Method: EPA 6020B	- Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 19:03	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:03	1

Job ID: 680-214695-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-722485/1-A

**Matrix: Water** 

Analysis Batch: 722803

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 722485

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 19:49	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Barium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1

Lab Sample ID: LCS 680-722485/2-A Client Sample ID: Lab Control Sample

**Matrix: Water** 

Analysis Batch: 722803

Prep Batch: 722485 LCS LCS %Rec Spike

Analyte	Added	Result C	Qualifier Unit	D %Rec	Limits
Arsenic	100	97.59	ug/L	98	80 - 120
Beryllium	50.0	49.07	ug/L	98	80 - 120
Cadmium	50.0	49.44	ug/L	99	80 - 120
Chromium	100	96.03	ug/L	96	80 - 120
Cobalt	50.0	51.43	ug/L	103	80 - 120
Lead	505	490.3	ug/L	97	80 - 120
Thallium	40.0	39.07	ug/L	98	80 - 120
Barium	100	92.31	ug/L	92	80 - 120

Lab Sample ID: MB 680-722492/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA Analysis Batch: 722803 Prep Batch: 722492

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 05/24/22 17:36 05/25/22 21:11 Arsenic 3.00 U 3.00 ug/L Beryllium 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 21:11 Cadmium 0.500 U 0.500 05/24/22 17:36 05/25/22 21:11 ug/L Chromium 5.00 U 5.00 ug/L 05/24/22 17:36 05/25/22 21:11 Cobalt 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 21:11 Lead 2.50 U 2.50 ug/L 05/24/22 17:36 05/25/22 21:11 Thallium 1.00 U 1.00 ug/L 05/24/22 17:36 05/25/22 21:11

Lab Sample ID: LCS 680-722492/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

5.00

ug/L

5.00 U

Analysis Batch: 722803

Barium

Prep Batch: 722492 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Arsenic 100 96.36 ug/L 96 80 - 120 Beryllium 50.0 49.53 ug/L 99 80-120 50.0 48.90 Cadmium ug/L 98 80 - 120 94.29 Chromium 100 ug/L 94 80-120 Cobalt 50.0 50.79 ug/L 102 80-120 Lead 505 487.3 ug/L 97 80-120 Thallium 40.0 38.55 80-120 ug/L 96

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05/24/22 17:36 05/25/22 21:11

Prep Type: Total/NA

Job ID: 680-214695-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Barium

Arsenic

# Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-722492/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 722803 Prep Batch: 722492 LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit %Rec Limits Barium 100 92 53 ug/L 93 80 - 120

Lab Sample ID: MB 680-722593/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 722917 Prep Batch: 722593

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	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00	-	ug/L	<del></del>	05/25/22 10:44	05/26/22 08:57	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 08:57	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Barium	5.00	U	5.00		ua/L		05/25/22 10:44	05/26/22 08:57	1

Lab Sample ID: LCS 680-722593/2-A Client Sample ID: Lab Control Sample

**Matrix: Water** Prep Type: Total/NA Prep Batch: 722593 Analysis Batch: 722917

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit D %Rec Arsenic 100 93.65 94 80 - 120 ug/L 50.0 Beryllium 48.67 ug/L 97 80 - 120 Cadmium 50.0 48.55 ug/L 97 80 - 120 100 89.35 Chromium ug/L 89 80-120 Cobalt 50.0 49.48 ug/L 99 80-120 Lead 505 478.9 ug/L 95 80 - 120 40.0 Thallium 38.29 ug/L 96 80 - 120

Lab Sample ID: 680-214695-10 MS Client Sample ID: AF27208 **Matrix: Water** Prep Type: Total/NA

90.93

ug/L

ug/L

113

75 - 125

100

Prep Batch: 722593 Analysis Batch: 722917

, and Jose Battern 122011	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	3.00	U	100	110.4	6	ug/L	- 12 (F-12)	110	75 - 125
Beryllium	0.500	U	50.0	55.06		ug/L		110	75 - 125
Cadmium	0.500	U	50.0	54.27		ug/L		109	75 - 125
Chromium	5.00	U	100	105.2		ug/L		105	75 - 125
Cobalt	0.500	U	50.0	56.13		ug/L		112	75 - 125
Lead	2.50	U	505	555.1		ug/L		110	75 - 125
Thallium	1.00	U	40.0	44.53		ug/L		111	75 - 125
Barium	95.5		100	201.2		ug/L		106	75 - 125

Lab Sample ID: 680-214695-10 MSD Client Sample ID: AF27208 Matrix: Water Prep Type: Total/NA

Analysis Batch: 722917 Prep Batch: 722593 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit 3.00 U 100 113.5 3

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80 - 120

#### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-214695-10 MSD Client Sample ID: AF27208 Pren Type: Total/NA

Matriy: Water

Analysis Batch: 722917									Prep Ba		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Beryllium	0.500	U	50.0	57.52		ug/L		115	75 - 125	4	20
Cadmium	0.500	U	50.0	57.05		ug/L		114	75 - 125	5	20
Chromium	5.00	U	100	107.9		ug/L		108	75 - 125	3	20
Cobalt	0.500	U	50.0	57.91		ug/L		116	75 - 125	3	20
Lead	2.50	U	505	576.7		ug/L		114	75 - 125	4	20
Thallium	1.00	U	40.0	46.19		ug/L		115	75 - 125	4	20
Barium	95.5		100	206.9		ug/L		111	75 - 125	3	20

#### Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-398254/1-A Client Sample ID: Method Blank

**Matrix: Water** 

Analysis Batch: 398622

Prep Type: Total/NA Prep Batch: 398254

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 2.00 U 2.00 05/10/22 12:03 05/11/22 17:35 Antimony ua/L Selenium 5.00 U 5.00 ug/L 05/10/22 12:03 05/11/22 17:35

Lab Sample ID: LCS 180-398254/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 398622

Prep Type: Total/NA Prep Batch: 398254 100 100 Chiles M. Rec

	Opine	LCO	LCO				MINEC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	250	260.2	7	ug/L		104	80 - 120	
Selenium	1000	972.2		ug/L		97	80 - 120	

Lab Sample ID: 680-214695-17 MS Client Sample ID: AF27215

Matrix: Water

Analysis Batch: 398622

Prep Type: Total/NA Prep Batch: 398254 Sample Sample Snike MS MS %Rec

	oumpro	Campio	Opino	1110					701100	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	2.00	U -	250	248.0	7	ug/L		99	75 - 125	
Selenium	5.00	U	1000	927.3		ua/L		93	75 - 125	

Lab Sample ID: 680-214695-17 MSD Client Sample ID: AF27215

**Matrix: Water** 

Selenium

Prep Type: Total/NA Analysis Batch: 398622 Prep Batch: 398254 Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 2.00 U 250 75 - 125 Antimony 253.2 ua/L 101 20

943.4

ug/L

94

75 - 125

Lab Sample ID: MB 180-398255/1-A Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

1000

Analysis Batch: 398622

5.00 U

	IVIB	INIB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00	170	ug/L	21 —21	05/10/22 12:07	05/11/22 13:52	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 13:52	1

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Prep Batch: 398255

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### **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

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

Lab Sample ID: LCS 180-398255/2-A Matrix: Water Analysis Batch: 398622				Clie	nt Sai	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 398255
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	250	249.0	-	ug/L		100	80 - 120
Selenium	1000	962.9		ug/L		96	80 - 120

Lab Sample ID: 680-214695-1 MS Client Sample ID: AF27199 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 398622 Prep Batch: 398255 Sample Sample Spike MS MS %Rec **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits 250 Antimony 2.00 U 248.3 ug/L 99 75-125 5.00 U 1000 926.2 93 75 - 125 Selenium ug/L

Lab Sample ID: 680-214695-1 MSD Client Sample ID: AF27199 Matrix: Water Prep Type: Total/NA Analysis Batch: 398622 Prep Batch: 398255 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD Limit **Analyte** Result Qualifier Unit D %Rec 2 Antimony 2.00 U 250 253.7 ug/L 101 75 - 125 20 5.00 U 1000 963.5 75 - 125 20 Selenium ug/L 96 4

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

### Metals

Prep Batch: 398254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-17	AF27215	Total/NA	Water	3010A	<del></del>
680-214695-18	AF27216	Total/NA	Water	3010A	
680-214695-19	AF27217	Total/NA	Water	3010A	
680-214695-20	AF27218	Total/NA	Water	3010A	
680-214695-21	AF27219	Total/NA	Water	3010A	
680-214695-22	AF27220	Total/NA	Water	3010A	
MB 180-398254/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214695-17 MS	AF27215	Total/NA	Water	3010A	
680-214695-17 MSD	AF27215	Total/NA	Water	3010A	

Prep Batch: 398255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	3010A	
680-214695-2	AF27200	Total/NA	Water	3010A	
680-214695-3	AF27201	Total/NA	Water	3010A	
680-214695-4	AF27202	Total/NA	Water	3010A	
680-214695-5	AF27203	Total/NA	Water	3010A	
680-214695-6	AF27204	Total/NA	Water	3010A	
680-214695-7	AF27205	Total/NA	Water	3010A	
680-214695-8	AF27206	Total/NA	Water	3010A	
680-214695-9	AF27207	Total/NA	Water	3010A	
680-214695-10	AF27208	Total/NA	Water	3010A	
680-214695-11	AF27209	Total/NA	Water	3010A	
680-214695-12	AF27210	Total/NA	Water	3010A	
680-214695-13	AF27211	Total/NA	Water	3010A	
680-214695-14	AF27212	Total/NA	Water	3010A	
680-214695-15	AF27213	Total/NA	Water	3010A	
680-214695-16	AF27214	Total/NA	Water	3010A	
MB 180-398255/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-398255/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214695-1 MS	AF27199	Total/NA	Water	3010A	
680-214695-1 MSD	AF27199	Total/NA	Water	3010A	

Analysis Batch: 398622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	EPA 6020B	398255
680-214695-2	AF27200	Total/NA	Water	EPA 6020B	398255
680-214695-3	AF27201	Total/NA	Water	EPA 6020B	398255
680-214695-4	AF27202	Total/NA	Water	EPA 6020B	398255
680-214695-5	AF27203	Total/NA	Water	EPA 6020B	398255
680-214695-6	AF27204	Total/NA	Water	EPA 6020B	398255
680-214695-7	AF27205	Total/NA	Water	EPA 6020B	398255
680-214695-8	AF27206	Total/NA	Water	EPA 6020B	398255
680-214695-9	AF27207	Total/NA	Water	EPA 6020B	398255
680-214695-10	AF27208	Total/NA	Water	EPA 6020B	398255
680-214695-11	AF27209	Total/NA	Water	EPA 6020B	398255
680-214695-12	AF27210	Total/NA	Water	EPA 6020B	398255
680-214695-13	AF27211	Total/NA	Water	EPA 6020B	398255
680-214695-14	AF27212	Total/NA	Water	EPA 6020B	398255
680-214695-15	AF27213	Total/NA	Water	EPA 6020B	398255

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Job ID: 680-214695-1

# **Metals (Continued)**

#### Analysis Batch: 398622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-16	AF27214	Total/NA	Water	EPA 6020B	398255
680-214695-17	AF27215	Total/NA	Water	EPA 6020B	398254
680-214695-18	AF27216	Total/NA	Water	EPA 6020B	398254
680-214695-19	AF27217	Total/NA	Water	EPA 6020B	398254
680-214695-20	AF27218	Total/NA	Water	EPA 6020B	398254
680-214695-21	AF27219	Total/NA	Water	EPA 6020B	398254
680-214695-22	AF27220	Total/NA	Water	EPA 6020B	398254
MB 180-398254/1-A	Method Blank	Total/NA	Water	EPA 6020B	398254
MB 180-398255/1-A	Method Blank	Total/NA	Water	EPA 6020B	398255
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	398254
LCS 180-398255/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	398255
680-214695-1 MS	AF27199	Total/NA	Water	EPA 6020B	398255
680-214695-1 MSD	AF27199	Total/NA	Water	EPA 6020B	398255
680-214695-17 MS	AF27215	Total/NA	Water	EPA 6020B	398254
680-214695-17 MSD	AF27215	Total/NA	Water	EPA 6020B	398254

#### Prep Batch: 722485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-13	AF27211	Total/NA	Water	3010A	12 ×
680-214695-14	AF27212	Total/NA	Water	3010A	
680-214695-16	AF27214	Total/NA	Water	3010A	
680-214695-18	AF27216	Total/NA	Water	3010A	
680-214695-19	AF27217	Total/NA	Water	3010A	
MB 680-722485/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	3010A	

#### Prep Batch: 722492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	3010A	
680-214695-2	AF27200	Total/NA	Water	3010A	
680-214695-3	AF27201	Total/NA	Water	3010A	
380-214695-4	AF27202	Total/NA	Water	3010A	
680-214695-5	AF27203	Total/NA	Water	3010A	
680-214695-6	AF27204	Total/NA	Water	3010A	
680-214695-7	AF27205	Total/NA	Water	3010A	
680-214695-8	AF27206	Total/NA	Water	3010A	
680-214695-9	AF27207	Total/NA	Water	3010A	
680-214695-11	AF27209	Total/NA	Water	3010A	
680-214695-12	AF27210	Total/NA	Water	3010A	
680-214695-17	AF27215	Total/NA	Water	3010A	
680-214695-21	AF27219	Total/NA	Water	3010A	
680-214695-22	AF27220	Total/NA	Water	3010A	
MB 680-722492/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	3010A	

#### Prep Batch: 722593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-10	AF27208	Total/NA	Water	3010A	
680-214695-15	AF27213	Total/NA	Water	3010A	
680-214695-20	AF27218	Total/NA	Water	3010A	
MB 680-722593/1-A	Method Blank	Total/NA	Water	3010A	

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# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

## **Metals (Continued)**

#### Prep Batch: 722593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214695-10 MS	AF27208	Total/NA	Water	3010A	
680-214695-10 MSD	AF27208	Total/NA	Water	3010A	

#### Analysis Batch: 722803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	6020B	722492
680-214695-2	AF27200	Total/NA	Water	6020B	722492
680-214695-3	AF27201	Total/NA	Water	6020B	722492
680-214695-4	AF27202	Total/NA	Water	6020B	722492
680-214695-5	AF27203	Total/NA	Water	6020B	722492
680-214695-6	AF27204	Total/NA	Water	6020B	722492
680-214695-7	AF27205	Total/NA	Water	6020B	722492
680-214695-8	AF27206	Total/NA	Water	6020B	722492
680-214695-9	AF27207	Total/NA	Water	6020B	722492
680-214695-11	AF27209	Total/NA	Water	6020B	722492
680-214695-12	AF27210	Total/NA	Water	6020B	722492
680-214695-13	AF27211	Total/NA	Water	6020B	722485
680-214695-14	AF27212	Total/NA	Water	6020B	722485
680-214695-16	AF27214	Total/NA	Water	6020B	722485
680-214695-17	AF27215	Total/NA	Water	6020B	722492
680-214695-18	AF27216	Total/NA	Water	6020B	722485
680-214695-19	AF27217	Total/NA	Water	6020B	722485
680-214695-21	AF27219	Total/NA	Water	6020B	722492
680-214695-22	AF27220	Total/NA	Water	6020B	722492
MB 680-722485/1-A	Method Blank	Total/NA	Water	6020B	722485
MB 680-722492/1-A	Method Blank	Total/NA	Water	6020B	722492
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	6020B	722485
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	6020B	722492
	(A)				

#### Analysis Batch: 722917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-10	AF27208	Total/NA	Water	6020B	722593
680-214695-15	AF27213	Total/NA	Water	6020B	722593
680-214695-20	AF27218	Total/NA	Water	6020B	722593
MB 680-722593/1-A	Method Blank	Total/NA	Water	6020B	722593
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	6020B	722593
680-214695-10 MS	AF27208	Total/NA	Water	6020B	722593
680-214695-10 MSD	AF27208	Total/NA	Water	6020B	722593

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Client Sample ID: AF27199 Lab Sample ID: 680-214695-1

Matrix: Water

Date Collected: 03/01/22 11:49 Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:21	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 14:06	RSK	TAL PIT

Lab Sample ID: 680-214695-2 Client Sample ID: AF27200 Date Collected: 03/01/22 11:54

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:24	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 14:55	RSK	TAL PIT

Client Sample ID: AF27201 Lab Sample ID: 680-214695-3

Matrix: Water

Date Collected: 03/01/22 13:01 Date Received: 04/28/22 10:30

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3010A 722492 05/24/22 17:36 JΕ TAL SAV Total/NA 6020B 722803 05/25/22 22:26 BJB TAL SAV Analysis 1 Total/NA Prep 3010A 398255 05/10/22 12:07 NAF TAL PIT Total/NA 398622 05/11/22 14:58 RSK TAL PIT Analysis EPA 6020B 1

Client Sample ID: AF27202 Lab Sample ID: 680-214695-4

Date Collected: 02/28/22 13:02

Date Received: 04/28/22 10:30

70	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:00	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 15:12	RSK	TAL PIT

Client Sample ID: AF27203 Lab Sample ID: 680-214695-5

Date Collected: 02/28/22 13:07

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:03	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 15:33	RSK	TAL PIT

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Matrix: Water

Matrix: Water

Client Sample ID: AF27204 Lab Sample ID: 680-214695-6 Date Collected: 02/28/22 12:11

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:06	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 15:47	RSK	TAL PIT

Lab Sample ID: 680-214695-7 Client Sample ID: AF27205 Date Collected: 02/28/22 15:21

Matrix: Water

Date Received: 04/28/22 10:30

Batch Batch Dilution Batch Prepared Method Prep Type Type Factor Number or Analyzed **Analyst** Run Lab Total/NA Prep 3010A 722492 05/24/22 17:36 JE TAL SAV 6020B Total/NA Analysis 722803 05/25/22 22:13 BJB TAL SAV 1 Total/NA Prep 3010A 398255 05/10/22 12:07 NAF TAL PIT Total/NA EPA 6020B 398622 05/11/22 16:01 RSK TAL PIT Analysis 1

Client Sample ID: AF27206 Lab Sample ID: 680-214695-8

Date Collected: 02/28/22 14:02 Date Received: 04/28/22 10:30

**Matrix: Water** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:16	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:15	RSK	TAL PIT

Client Sample ID: AF27207 Lab Sample ID: 680-214695-9 Matrix: Water

Date Collected: 02/28/22 10:29

Date Received: 04/28/22 10:30

7	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:18	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:19	RSK	TAL PIT

Client Sample ID: AF27208 Lab Sample ID: 680-214695-10 Date Collected: 03/01/22 14:37 Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:02	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:33	RSK	TAL PIT

**Eurofins Savannah** 

Client Sample ID: AF27209 Lab Sample ID: 680-214695-11 Date Collected: 02/24/22 13:37

Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:35	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:36	RSK	TAL PIT

Client Sample ID: AF27210 Lab Sample ID: 680-214695-12 Date Collected: 02/24/22 13:42

**Matrix: Water** 

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A		0 &	722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:42	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:50	RSK	TAL PIT

Client Sample ID: AF27211 Lab Sample ID: 680-214695-13

Date Collected: 02/23/22 12:18 **Matrix: Water** 

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:04	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:04	RSK	TAL PIT

Client Sample ID: AF27212 Lab Sample ID: 680-214695-14

Date Collected: 02/22/22 15:14 **Matrix: Water** 

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A		1 #-	722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:53	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:14	RSK	TAL PIT

Client Sample ID: AF27213 Lab Sample ID: 680-214695-15

Date Collected: 03/07/22 10:37 Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A	18. 22		722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:38	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:28	RSK	TAL PIT

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Matrix: Water

Date Received: 04/28/22 10:30

Client Sample ID: AF27214 Lab Sample ID: 680-214695-16 Date Collected: 02/22/22 12:04

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number or Analyzed **Analyst** Type Lab Total/NA 3010A 722485 05/24/22 16:11 JE TAL SAV Prep Total/NA 6020B 722803 05/25/22 20:56 TAL SAV Analysis 1 BJB Total/NA Prep 3010A 398255 05/10/22 12:07 NAF TAL PIT Total/NA TAL PIT Analysis EPA 6020B 1 398622 05/11/22 17:32 RSK

Client Sample ID: AF27215 Lab Sample ID: 680-214695-17

Date Collected: 02/23/22 14:00 Matrix: Water Date Received: 04/28/22 10:30

Batch Batch Dilution Batch Prepared Method Prep Type Type Factor Number or Analyzed **Analyst** Run Lab Total/NA Prep 3010A 722492 05/24/22 17:36 JE TAL SAV Total/NA 6020B 722803 05/25/22 21:30 Analysis BJB TAL SAV 1 Total/NA Prep 3010A 398254 05/10/22 12:03 NAF TAL PIT Total/NA 398622 05/11/22 17:42 RSK TAL PIT Analysis EPA 6020B 1

Client Sample ID: AF27216 Lab Sample ID: 680-214695-18

Date Collected: 02/22/22 13:40 Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:59	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:49	RSK	TAL PIT

Client Sample ID: AF27217 Lab Sample ID: 680-214695-19

Date Collected: 02/22/22 10:18 Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:01	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:52	RSK	TAL PIT

Client Sample ID: AF27218 Lab Sample ID: 680-214695-20

Date Collected: 03/01/22 15:55 Matrix: Water

Date Received: 04/28/22 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:15	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:56	RSK	TAL PIT

**Eurofins Savannah** 

#### Lab Chronicle

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

Lab Sample ID: 680-214695-21

Matrix: Water

Date Collected: 02/24/22 14:59 Date Received: 04/28/22 10:30

Client Sample ID: AF27219

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	<b>Analyst</b>	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:45	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:59	RSK	TAL PIT

Lab Sample ID: 680-214695-22 Client Sample ID: AF27220

Date Collected: 02/24/22 15:04 **Matrix: Water** 

Date Received: 04/28/22 10:30

_,	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3010A		0 #_	722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:48	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:03	RSK	TAL PIT

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058 TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# **Chain of Custody**

122

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

Project/Task/Unit #: Rerun request for any flagged QC **Customer Email/Report Recipient: Date Results Needed by:** 1259/5 12915 JM02.08. GØ1.1/ 36500 Yes No @santeecooper.com **Analysis Group** Sb, Pb Labworks ID # Sample Location/ Comments 8 Preservative (see below) Matrix(see below Collection Time **Collection Date** (Internal use Description Method# Sample Collector 13,8 Total # of contain only) Grab (G) or Composite (C) . Reporting limit Bottle type: (G/Plastic-P) Misc. sample info ME Any other notes \$5 BRT METHOD 6020 X 1 P 3/1/22 G 1149 WAP-12 AF27199 12 DUP 3/1/22 1154 SEE SHEET FUR RLS. 200 SENP TO ST. LOUIS FOR S 01 13 3/1/22 130 2/28/22 02 14 1302 14 DUP 2/28/22 03 1307 Custody 04 14A 1211 Chain of 05 1521 14B 4695 06 140 1402 680-21 1029 15 3/1/22 08 1437 16 Sample Receiving (Internal Use Only)
TEMP (°C): 18. 11. Initial: Relinquished by: Employee# Date Received by: Employee # Date Time Time 71 Somoun 428-22 1030 4/27/22 Correct pH: Yes Relinquished by: Employee# Date Time Employee # Time Preservative Lot#: Received by: Employee # Time Relinquished by: Employee# Date Time Date/Time/Init for preservative: ☐ METALS (all ) Nutrients MISC. GV95Um Coal Elve Si □Ag □Sb □ Cu ⊕ TOC BTEX Wallboard □ Ultimate ☐ Ammonia □ Fe □ Se Gyptum(all balaw) 11 Napthalene  $\neg$  DOC ☐ % Moisture □THM/HAA □As  $\Box K$ □ Sn ☐ TP/TPO4 □ Ash □ % Carbon DVOC C ADA O NH3-N □ Sulfur ☐ Mineral □В O Li □ Sr ☐ Oil & Grease L F □ BTUs Analysis DE. Coli O Ti □ Ba □Mg D CI ☐ Volatile Matter □ Sieve | | Total Coliform Soluble Metals □ Mn NO2 □ Be O CHN ☐ % Moisture □рН Denty (CaSO4) ☐ Dissolved As ⊕ Br % Monthie Other Tests: □ Ca □Мо  $\square V$ ☐ NO3 Dissolved Fe Sulfites XRF Scan NPDES □ Cd □Na  $\square$  Zn ☐ Rad 226 HGI □ SO4 □ Oil & Grease ☐ Rad 228 □Hg □ Co □Ni DPCB Particulate Matter Particle Size TSS □ CrVI □ Cr □ Pb

# **Chain of Custody**

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

Date Results Needed by: **Customer Email/Report Recipient:** Project/Task/Unit #: Rerun request for any flagged QC 125915 / JM02.08.601.1/ 36500 @santeecooper.com Yes No **Analysis Group** Labworks ID # Sample Location/ Comments Bottle type: (Glass-G/Plastic-P) Preservative (see below) Matrix(see below) **Collection Time** (Internal use Description **Collection Date** Method# Sample Collector rotal # of contain BR only) . Grab (G) or Composite (C) Reporting limit Misc. sample info 8 4 Any other notes 85 BOB METHOD 6020 2/24/22 1 P 2 X G GW AF27209 WAP-17 1337 SEE SHEET FOR KLS 2/24/22 10 17 DUP 1342 SEND TO ST LOUIS FOR SE 11 18 2/23/22 1218 TO MEET RL. 12 19 1514 2/22/22 Sample Receiving (Internal Use Only)
TEMP (°C): 18.9/18.3 Initial: Relinquished by: Employee# Date Time Received by: Employee# Date Time 42822 Symoun 4/27/22 1500 7/ 1030 Correct pH: Yes Relinquished by: No Time Employee# Date Received by: Employee# Time Preservative Lot#: Relinquished by: Time Employee# Date Received by: Employee# Date Time Date/Time/Init for preservative: ☐ METALS (all) Nutrients MISC. Gypsum Coal 8 Fivesh □ Ag □ Cu □ Sb TOC □ BTEX Wallboard □ Ultimate □ Fe ☐ Se □ Ammonia DOC 11 Napthalene Gypsum(all ☐ % Moisture O LOI below) Alki TOC □ As  $\Box K$ □ Sn □ THM/HAA TP/TPO4 □ Ash □ % Carbon □ VOC ONES-N OB O Li ☐ Sr ☐ Sulfur O Mineral □ Oil & Grease DF □ BTUs □ E. Coli Analysis □ Ti Total metali
 Soleble Metals □ Ba □Mg O CI | | Total Coliform ☐ Volatile Matter ☐ Sieve □ Be □ Mn □ NO2 □pH □ CHN 3 Purity (CaSO4) ☐ % Moisture Вг ☐ Dissolved As Other Tests: □% Moisture □ Ca  $\Box V$ □Мо ☐ Dissolved Fe □ NO3 Sulfites XRF Scan Hedes □ Cd □ Na □ Zn ☐ Rad 226 old Chlorides □ SO4 \_ HGI □ Oil & Grease ☐ Rad 228 □ Co □Ni □Hg O.As FIPCH Particulate Matter Particle Size □ Cr □Pb II TSS ☐ CrVI

# **Chain of Custody**

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

**Customer Email/Report Recipient: Date Results Needed by:** Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA @santeecooper.com 125915 / JMO2.08.GØ1. / 36500 Yes No **Analysis Group** Labworks ID# Sample Location/ Comments 80 Bottle type: (Glass-G/Plastic-P) Collection Time Matrix(see below) Collection Date (Internal use Description Total # of container Method# Sample Collector 3,8 only) Preservative (s below) Reporting limit Grab (G) or Composite (C) Misc. sample info 新二 Any other notes 26 W METHOD 6020 AF27213 2 X WAP - 20 3/7/22 P G X 1037 GW SEE SHEET FOR RLS. 21 2/22/22 1204 14 22 15 2/23/22 1400 SEND TO ST. LOUIS FOR Se. 16 23 2/22/22 1340 17 24 X 2/22/22 1018 X 18 3/1/22 25 1555 19 26 1459 2/24/22 20 26 DUP 2/24/22 1504 2# Sample Receiving (Internal Use Only)
TEMP (°C): 189/19 Initial: Relinquished by: Employee# Date Time Received by: Employee # Date Time TVA 4-28 22 Symoan 1030 4/27/22 1500 Correct pH: Yes Relinguished 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 alve Bu □Ag □ Cu □Sb Trans. Of Oast.
\*\*Montare
\*\*Color STOC BTEX Wallboard □ Ultimate 🛘 Ammonia □ Fe ☐ Se 1 | Napthalene Gypsum(all DOC ☐ % Moisture II LOI □ As  $\Box K$ ☐ THM/HAA □ Sn 3 TP/TPO4 helme) □ Ash 🗆 % Carbon DVOC AIM □ NH3-N □ Sulfur ΩLi ☐ Mineral  $\square$  B □ Sr □ Oil & Grease 10 O RTIE Analysis □ E. Coli □ Ba □Mg O Ti Total metals O CI Sieve || Total Coliform ☐ Volatile Matter Soluble Metal □ Tl U NO2 □ Be U Mn □ CHN □pH ☐ % Moisture C Parity (CaSO4) ☐ Dissolved As l lin 3 % Mosture Other Tests: □ Ca □Мо ΟV ☐ Dissolved Fe □ NO3 Sulfites XRF Scan NPDES □Na □ Zn □ Cd ☐ Rad 226 SO4 HGI O Oif & Greare ☐ Rad 228 Chlorides Fmeness □Со □Ni □Hg DPCB Particulate Matter 🗆 As Particle Size □ Cr □Pb □ CrVI Sulfur

# **Chain of Custody Record**

Eurofins Pittsburgh														***	**	
301 Alpha Drive RIDC Park Pittsburgh PA 15238 Phono A42 063 7058 Eart A42 063 7468	C	Chain of Custody Record	Custoc	ly R	00	rd								en curotino	Environment Testing America	
Client Information (Sub Contract Lab)	Sampler			Lab PM. Lanier Jerry A	Jern	γ A			Car	Carrier Tracking No(s):	g No(s):			COC No: 180-462144 1		
	Phone.			E-Mail: Jerry	Lanier	@et.eı	E-Mail: Jerry Lanier@et.eurofinsus.com	ă	Sta	State of Origin. South Carolina	lina			Page: Page 1 of 3		
Company Eurofins Environment Testing Southeast,					VELA	P - Flor	Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program	ote): South Ca	rolina, S	tate Pro	gram			Job #: 680-214695-1		
Address: 5102 LaRoche Avenue	Due Date Requested: 5/5/2022						Α	Analysis Requested	Reque	sted				Preservation Codes.	odes. M - Hexane	
City Savannah	TAT Requested (days):	s):												B - NaOH C - Zn Acetate	N - None O - AsNaO2 B Na2045	
State Zip: GA, 31404														E - NaHSO4	Q - Na2SO3 R - Na2S2O3	
Phone: 912-354-7858(TeI) 912-352-0165(Fax)	PO#				0)	3								G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate	
Email:	#OW					Metal							rs	J-DI Water	V - MCAA W - pH 4-5	
Project Name: 125915/JM02 08 G01 1/36500	Project #: 68008190					ICPMS							ntaine	L-EDA	Y - Trizma Z - other (specify)	
Site	SSOW#.					(OD) 7	- LL-Cu dawa						of co	Other		L.
				Matrix (www.ater S=solid,	Filtered orm MS/N	B/3010A (N						- Constant	l Number			
Sample Identification - Client ID (Lab ID)	Sample Date	Time G	G=grab) BT=Tiss	BT=Tissue, A=Air)		602							Tot	Special I	Special Instructions/Note:	
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Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.	places the ownership of being analyzed, the sar he signed Chain of Cust	method analyte analyte analyte analyte shipping must be shipping to significant analyte analyt	& accreditation copped back to the aid complicance	ampliance Eurofins F to Eurofins	upon ou ittsburg	ut subcor gh labora ırgh.	ntract laborato	ries. This sanstructions v	ample ship vill be prov	ment is for ded. Any	warded u	nder cha to accrec	in-of-cu litation	status should be bro	tory does not currently ought to Eurofins Pittsburgh	
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Custody Seals Intact:
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Custody Seal No

Date/Time: Date/Time:

Company

Received by:

Cooler Temperature(s) °C and Other Remarks.

14.1/15.8

Ver- 06/08/2021

Received by:

# **Chain of Custody Record**

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Phone. 412-963-7058 Fax: 412-963-2468	Sampler			Lab PM	5			Carrier Tracking No(s)		COC No:	
Client Information (Sub Contract Lab)		The state of the s		Lanie	Lanier, Jerry A	TV A				180-462144.2	
	Phone:			E-Mail: Jerry	Lanie	@ @	E-Mail: Serry Lanier@et.eurofinsus com	State of Origin. South Carolina		Page: Page 2 of 3	
Company: Eurofins Environment Testing Southeast,					Accred	P - F	Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program	, State Progr		Job #: 680-214695-1	
Address: 5102 LaRoche Avenue,	Due Date Requested 5/5/2022	Ď					Analysis Requ	Requested		Cod	f - Hexane
City Savannah	TAT Requested (days):	ys):					$\dashv$			B - NaOH N	N - None O - AsNaO2
State Zip: GA, 31404	1										2-Na2SO3 2-Na2SO3
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #				o)	3				- Amchlor - Ascorbic Acid	S - H2SO4 T TSP Dodecahydrate
Email:	WO #				-					er er	V - MCAA W - pH 4-5
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190									L-EDA Y	Y Trizma Z - other (specify)
Site:	SSOW#.									Other	
			Sample Type	Matrix (w=water	Filtered rm MS/N	3/3010A (N			Number		
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AF27213 (680-214695-15)	3/7/22	10 37 Eastern		Water		×					
AF27214 (680-214695-16)	2/22/22	12.04 Eastern		Water		×					
AF27215 (680-214695-17)	2/23/22	14 00 Eastern		Water		×			-3.		
AF27216 (680-214695-18)	2/22/22	13.40 Eastern		Water		×					
Note. Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instrustrention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.	places the ownership c being analyzed, the sa he signed Chain of Cu	of method, analy amples must be stody attesting to	te & accreditat shipped back to said complice	ion compliance o the Eurofins ance to Eurofin	upon o Pittsbu s Pittsb	out sul rgh lat rurgh.	contract laboratories. This sample si oratory or other instructions will be pr	hipment is forwa ovided. Any ch	<ul> <li>This sample shipment is forwarded under chain-of-custody If the laboratory does not currently uctions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh</li> </ul>	atus should be brought	does not currently to Eurofins Pittsburgh
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# **Chain of Custody Record**

Custody Seals Intact: Custody Seal No A Yes A No	Relinquished by	Relinquished by	Relinquished by	Empty Kit Relinquished by	Deliverable Requested I, II, III, IV, Other (specify)	Possible Hazard Identification Unconfirmed	Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh.		AF27220 (680-214695-22)	AF27219 (680-214695-21)	AF27218 (680-214695-20)	AF27217 (680-214695-19)		Sample Identification - Client ID (Lab ID)	Site	Project Name: 125915/JM02.08 G01 1/36500	Emaîl:	Phone: 912-354-7858(Tel) 912-352-0165(Fax)	State Zip: GA, 31404	City Savannah	Address. 5102 LaRoche Avenue,	Company Eurofins Environment Testing Southeast,	Client Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone 412-963-7058 Fax: 412-963-2468
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Coo	Req		500	Time.	Special	Sample □ <sub>F</sub>	illance upon out sub rofins Pittsburgh lab iurofins Pittsburgh.		×	×	×	×	ř. X	Field Filtered Perform MS/N 6020B/3010A (N	SD (1	es or	No)					Accreditation NELAP - F	E-Mail: Jerry Lanier@et.eurofinsus	Lanier, Jerry A	Record
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5102 LaRoche Avenue Savannah, GA 31404

# **Chain of Custody Record**

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Environment Testing America

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Client Information (Sub Contract Lab)				Lar E-M		lerry A				F-1-15			680-692536.2	
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ore: 12-963-7058(Tel) 412-963-2468(Fax)	PO ≰				8								G - Amon or H - Ascorbic Acid	S - H2SC4 T - TSP Dodesafyd
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5102 LaRoche Avenue Savannah G& 31404

# **Chain of Custody Record**

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\$102 LaRoche Avenue Savenneh, GA 31404 Phone: \$12-354-7858 Fex: \$12-352-0165 **Chain of Custody Record** 

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Environment Testing America

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Client Information (Sub Contract Lab)	Sempler;			Lab PM Lanier		V A			Carrer T	racking No(s	ŀ		COC No 680-692535, Z		
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Eurofins Environment Teating Northeast.								South Caro	lina; State	Program			680-214695-1		
Address: 301 Alpha Drive, RIDC Perk,	Due Date Requests 5/5/2022	ed:					A	nalysis R	equeste	d			Preservation Cod		
Cs; Pitsburgh	TAT Requested [da	ys):											A - HCL 5 - NeOH 5 - Zn Abetate	M - Mexane N - None O - AsNaG2	
State, Zp: PA, 15238													D - Nitric Acid E - NaH5D4 F - MeOH	P • Na204S Q • Ne2503 R • Ne2523	
Phone. 412-953-7056(Tel): 412-563-2468(Fax)	PO #	1140000									1		G - Amehier H - Ascottic Acid	3 - H2504 7 - TSP Dadecah	worate
Enal.	WO#:			2	(a)	li						200-000	J - DI Water	U - Acetone V - MCAA	
Project Name: 125915/JM02.08 GC1.1/395C0	Project #: 68006190	2000		1	Sample (Yes or No)	ICPMS Wolats						ata ii	K - EDTA L - EDA	W - pH 4-5 Z - other japedily	
Site:	350V-#	5701 1.5			SO IV	CPMS				3		95 70	Other		
		Sample	Sample Mat Type (West (C=Comp, Oresit	FIX.	Inform M&IA	8020B/3010.6 21					< <b>-</b> >	Total Number			
Sample Identification - Ctient ID (Lab ID)	Sample Date	Time	G=grab) at-twee Preservation Co	r. A-A+) II		8						15	Special In	structions/Not	e:
AF27208 (660-214695-10)	3/1/22	14:37	Wat		4	x						1			
AF27209 (880-214695-11)	2/24/22	Eastern 13:37 Eastern	Was	ter		Х				1		1			- 1
AF27210 (680-214695-12)	2/24/22	13:42 Eastern	Wei	ter		x						1			
AF27211 (680-214695-13)	2/23/22	12.18 Eastern	Wat	er er	1	х						1			
AF27212 (680-214695-14)	2/22/22	15:14 Eastern	Wat	ter		х						1	380		-0.93
AF27213 (680-214695-15)	3/7/22	10 37 Eastern	Wat	ter		х						1			
AF27214 (680-214895-16)	2/22/22	12.04 Eastern	Wat	ter .		х					1	1			
AF27215 (680-214695-17)	2/23/22	14:00 Eastern	Wat	er		Х						1			
AF27216 (680-214695-18)	2/22/22	13-40 Eastern	Wat	ter		Х						1			
Note: Ennce laboratory apprecisations are subject to change, Eurofins Envi does not currently maintain accreditation in the State of Qingin listed above status should be brought to Eurofine Environment Teating Southeast, ELC	e for analysis/lesis/mathz bein	ig analyzed, th	re samples must be ship	pped back	k to the	Eurotos.	Envegrement	Testing South	east, LLC lab	ceatory or oth	er irstruc	tions will	be provided. Any o	hanges to apprecita	aberelen Non
Possible Hazard Identification Unconfirmed							sposal ( A m To Clien		: #\$\$essei Disposal			retalmer Archiv	d longer than 1 vs For	month) Months	
Deliverable Requested; I, II. Ut, IV, Other (specify)	Primary Delivera	ble Rank:	1					C Requiren							
Empty Kit Relinquished by:		Date.		T	ime:	- 7	Λ		Me	had of Shipm	nem		642	2000	
Rainquished by	Dale/Time	(00	Соправ	у		Received	by.			Jate	mme.	3	-22	Company FOTA	HI
Relinquished by:	Qata Time:	*	Compani	٧		Received	byc			Date	Time.		900	Company	
Relinquished by	Date/Timer		Сопраз	у		Received	by:			Clehe	/Time:	200	CVC	Company	
Custody Seals Intact   Custody Seal No   Δ Yes Δ No	i e		li li		- 8	Cooler Te	imperatura(s)	PC and Other	Remarks:						

Phone: 912-354-7858 Fax: 912-352-0165

5102 LaRoche Avenue Savannah, GA 31404 **Chain of Custody Record** 

💸 eurofins

Environment Testing America

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Client Information (Sub Contract Lab)	Sampler				PM. nier, Ja	erry	A				Carri	er Trackin	g Nojs):			COC No: 880-892536.3		
Client Corract:	Phone:			E-M							State	of Origin	_		_	Page.		
Shipping/Receiving				Jer	7	Acres 1	geteur				Sou	th Caro	Ina			Page 3 of 3	- atal	
Company. Eurofins Environment Testing Northeast.							ons Req - Florid			th Caroli	na; Sta	ate Prog	nem			Job #: 680-214695-1	70.00	
Adcrees: 301 Alpha Drive, RIDC Park.	Due Date Requested 5/8/2022	1;					- 4.80		Analy	sis Re	ques	ted				Preservation Co		
City. Pitsburgh	TAT Requested (day	reþ:			T						T		T			A - HCL B - NaOH C - 7: Apalale	M - Herans N - None O - AsrisO2	
State 70p PA, 15238																D - Nitre Acel E NaHSO4 F - MgOH	P - Na2045 D - Na2SO3 R - Na2S2O3	
Phone: 412-963-7058(Te*) 412-963-2468(Fax)	PO#:	1.8			5		5			}						G - Ametion H - Asserbic Acc	S - H2SO4 T - TSP Dodece	shyarate
Smail:	7ÅO ₩				N to t	9										I - Ice J - Di Water	U - Apetone V - MCAA	
Project Name* 125915/JMC2.08.GC1.1/36500	Project #. 680038190				Sample (Yes or No.	MS/MSD (Yes or No)	Molek	1								K - EDTA L - EDA	W - pH 4-5 Z - other (specify	80
Site	SSOWE			+	Samp	3D (Y	ICP MS								of co	Dither:		
		Sample	Sample Type (C=camp, ,	Matrix (mounter, Senate,	Pred	Perform MS/N	6620RG401R 9								Total Number			
Sample Identification - Client ID (Lab ID)	Sample Date	Time		Terres, A-A	1 2	٥	5	$\sqcup$	4						2	Special In	nstructions/No	te:
	><	><	Preservation	n Code:	X	XL.									X			
AF27217 (680-214695-19)	2/22/22	10:18 Eastern		Weter			X								1			
AF27218 (680-214695-20)	3/1/22	15.55 Eastern		Water	$\perp$	i	X	Ш							1			-
AF27219 (680-214695-21)	2/24/22	14.59 Eastern		Water			x	Ш							1			
AF27220 (680-214595-22)	2/24/22	15:04 Eastern		Water	11		х						1		1			
					++	4	-						11					
		_			H	-	+	-	-		$\vdash$		++	-				
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			<del>                                     </del>	-	++				+		+	+	++					
Note: Since taboratory accreditations are subject to change, Eurofins Endobes not currently maintain accreditation in the State of Origin Israel about tables should be brought to Eurofins Environment Teeting Southeast, L	we for analysis/sests/matrix being	analyzed, d	d faum reigmas er	e thipped	back lo	the E	urches E	nvironm	eni Testi	og Southe	set. LLC	<b>Inhorator</b>	y or other	icaprociio	liw en	be provided. Any (	changes to accredit	isboratory laner.
Possible Hazard Identification					5	Sami				The state of the s				are ret	tains	d longer than 1	l month)	
Unconfirmed						100		n To C				eal By I	ab		Archi	re For	Months	
Oeliverable Requested: I, II, III, IV, Other (specify)	Primery Deliverat	sle Rank:	1		\$	Spec	ial Instr	ruction	E/QC R	equirem	ants:							
Empty Kit Relinquished by:		Date:			Time	e:			N.			Method o	1 Shipmen	t				-25, 31
Reinquished by:	Dane/Time: 5/2	1500		прату		P	eseived t	by:	()	W			Date Ti	he2	5-	20	Company	APC
Reinquished by:	Catert ma:	200 - 120-100	Cox	npany		R	ecewad (	þy.	2				Quie/Te	mer		900	Сотпрату	
Relincushed by:	Date/Time:		Co	прапу		R	eseived t	by:		Tel D			Date(Ti-	Me.			Company	
Custody Seals Intact: Custody Seal No.:						G	ooler Ter	noeradur	e J° (4)e	nd Other R	(emarks							

# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-214695-1

Login Number: 214695 List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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.	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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# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-214695-1

Login Number: 214695 List Number: 2

Constant Water - Dabbie

Creator: Watson, Debbie

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

N/A

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List Source: Eurofins Pittsburgh

List Creation: 05/03/22 05:29 PM

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Residual Chlorine Checked.

# **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-214695-1

### **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	06-30-22

## **Laboratory: Eurofins Pittsburgh**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
South Carolina	State	89014	05-19-22

D ID. 000-214090-1

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

gel.com

April 01, 2022

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

Re: ABS Lab Analytical Work Order: 572251

Dear Ms. Gilmetti:

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

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

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

Sincerely,

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: 572251 GEL Work Order: 572251

#### 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.

	Inlie	Roberson	
Reviewed by			

Page 2 of 26 SDG: 572251

#### **GEL LABORATORIES LLC**

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

**Certificate of Analysis** 

Report Date: April 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27207 Sample ID: 572251001 Matrix: Ground Water Collect Date: 28-FEB-22 10:29 04-MAR-22 Receive Date:

Client

Project: Client ID: SOOP001

Analyst Comments

SOOP00119

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		3.88	+/-1.33	1.64	3.00	pCi/L		JXC9	03/31/22	1037 2238666	5 1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		6.65	+/-1.46			pCi/L		NXL1	03/31/22	1508 2238665	5 2
Rad Radium-226											
Lucas Cell, Ra226, Liquid "As Received"											
Radium-226		2.77	+/-0.605	0.356	1.00	pCi/L		LXP1	03/23/22	0850 2238653	7 3

The following Analytical Methods were performed:

Description

2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	rery Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 75.2 (15%-125%)

#### Notes:

Method

1

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

EPA 904.0/SW846 9320 Modified

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 3 of 26 SDG: 572251

#### **GEL LABORATORIES LLC**

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

**Certificate of Analysis** 

Report Date: April 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27202 Sample ID: 572251002 Matrix: Ground Water Collect Date: 28-FEB-22 13:02 Receive Date: 04-MAR-22

Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid "As Received"											
Radium-228		2.30	+/-1.28	1.87	3.00	pCi/L		JXC9 0:	3/31/22	1037 2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		2.64	+/-1.30			pCi/L		NXL1 0	3/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	Lucas Cell, Ra226, Liquid "As Received"										
Radium-226		0.343	+/-0.224	0.274	1.00	pCi/L		LXP1 0	3/23/22	0922 2238657	3
The following Analytical Methods were performed:											
Method Description Analyst Comments											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	A 903.1 Modified				
2 Care	Curation				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 69.7 (15%-125%)

#### Notes:

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

EPA 904.0/SW846 9320 Modified

Column headers are defined as follows:

Collector:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 26 SDG: 572251

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

Project:

Client ID:

Analyst Comments

**Certificate of Analysis** 

Report Date: April 1, 2022

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: AF27203 Sample ID: 572251003 Matrix: Ground Water Collect Date: 28-FEB-22 13:07 Receive Date: 04-MAR-22

Client Collector:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proporti	ional Counting	5									
GFPC, Ra228, Liquid	"As Received"										
Radium-228		2.63	+/-1.18	1.63	3.00	pCi/L		JXC9	03/31/22	1037 2238666	1
Radium-226+Radium-	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.73	+/-1.23			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Lic	juid "As Recei	ved"									
Radium-226	<del>-</del> 26	1.10	+/-0.359	0.265	1.00	pCi/L		LXP1	03/23/22	0922 2238657	3
The following Analyti	cal Methods w	ere perfo	ormed:								

Method 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" 78.7 (15%-125%)

# Notes:

1

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 PF: Prep Factor DL: Detection Limit MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 5 of 26 SDG: 572251

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

**Certificate of Analysis** 

Report Date: April 1, 2022

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: AF27204
Sample ID: 572251004
Matrix: Ground Water
Collect Date: 28-FEB-22 12:11
Receive Date: 04-MAR-22

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228	U	1.44	+/-1.61	2.70	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radium	-228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		2.70	+/-1.66			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		1.25	+/-0.383	0.223	1.00	nCi/L		LXP1	03/23/22	0922 2238657	3

The following Analytical Methods were performed:

Description

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

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 68.2 (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:

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 6 of 26 SDG: 572251

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

**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: April 1, 2022

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: AF27206
Sample ID: 572251005
Matrix: Ground Water
Collect Date: 28-FEB-22 14:02
Receive Date: 04-MAR-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	5									
GFPC, Ra228, Liquid	"As Received"										
Radium-228		2.95	+/-1.38	1.96	3.00	pCi/L		JXC9 0:	3/31/22	1038 2238666	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		4.83	+/-1.45			pCi/L		NXL1 0	3/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226	2.5.	1.88	+/-0.437	0.197	1.00	pCi/L		LXP1 0	3/23/22	0922 2238657	3
The following Analyt	ical Methods w	ere perfo	rmed:								

Method Description

Calculation

	\$ 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 72.4 (15%-125%)

# Notes:

1

2

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 7 of 26 SDG: 572251

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: April 1, 2022

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: AF27205
Sample ID: 572251006
Matrix: Ground Water
Collect Date: 28-FEB-22 15:21
Receive Date: 04-MAR-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analys	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting										
GFPC, Ra228, Liquid'	'As Received"										
Radium-228	U	0.984	+/-1.51	2.60	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		6.26	+/-1.69			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		5.28	+/-0.746	0.412	1.00	pCi/L		LXP1	03/23/22	0922 2238657	3
The following Analyti	cal Methods w	ere perfo	rmed:								
Method	Description		Analyst Comments								

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	903.1 Modified				
2 Care	CUTACION				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 79 (15%-125%)

# Notes:

1

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: April 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27199 Sample ID: 572251007 Matrix: Ground Water Collect Date: 01-MAR-22 11:49 Receive Date: 04-MAR-22

Client

Client ID: SOOP001

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analys	st Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		3.56	+/-1.39	1.91	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		4.18	+/-1.43			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.620	+/-0.322	0.406	1.00	pCi/L		LXP1	03/23/22	0922 2238657	3
The following Analytic	al Methods w	ere perfo	ormed:								

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

EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 80.6 (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: April 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27200 Sample ID: 572251008 Matrix: Ground Water Collect Date: 01-MAR-22 11:54

04-MAR-22 Receive Date: Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proporti	ional Counting									
GFPC, Ra228, Liquid	"As Received"									
Radium-228		4.38	+/-1.76	2.54	3.00	pCi/L		JXC9 03/31/22	1038 2238666	1
Radium-226+Radium-	228 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		5.56	+/-1.81			pCi/L		NXL1 03/31/22	1508 2238665	2
Rad Radium-226										
Lucas Cell, Ra226, Lic	juid "As Recei	ved"								
Radium-226		1.17	+/-0.405	0.431	1.00	pCi/L		LXP1 03/23/22	0922 2238657	3
The following Analyti	cal Methods w	ere perfo	ormed:							
Method	Description			Analyst Comments						

Sign as "Supremental	AND CONTROL OF PERSON STOLE OF THE BUT OF THE			2545 TS	10.2200 0.2.2000
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EP/	A 903.1 Modified				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 78.4 (15%-125%)

1

Notes:

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

EPA 904.0/SW846 9320 Modified

Calculation

Column headers are defined as follows:

DF: Dilution Factor Lc/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 1, 2022

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: AF27201
Sample ID: 572251009
Matrix: Ground Water
Collect Date: 01-MAR-22 13:01
Receive Date: 04-MAR-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analys	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting										
GFPC, Ra228, Liquid'	'As Received"										
Radium-228		2.81	+/-1.54	2.30	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		4.12	+/-1.60			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		1.31	+/-0.411	0.245	1.00	pCi/L		LXP1	03/23/22	0954 2238657	3
The following Analyti	cal Methods w	ere perfo	rmed:								
Method Description Analyst Comments											

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" 64.2 (15%-125%)

# Notes:

1

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

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** 

Report Date: April 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27208
Sample ID: 572251010
Matrix: Ground Water
Collect Date: 01-MAR-22 14:37
Receive Date: 04-MAR-22

Client

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Dat	e Time Batch	Method
Rad Gas Flow Proportion	onal Counting									
GFPC, Ra228, Liquid ".	As Received"									
Radium-228		3.12	+/-1.63	2.37	3.00	pCi/L		JXC9 03/31/	22 1038 2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		4.18	+/-1.67			pCi/L		NXL1 03/31/	22 1508 2238665	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		1.06	+/-0.370	0.343	1.00	pCi/L		LXP1 03/23/	22 0954 2238657	3
The following Analytical Methods were performed:										

3 EPA	903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			57.7	(15%-125%)

#### Notes:

Method

1

2

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

EPA 904.0/SW846 9320 Modified

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

Calculation

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Report Date: April 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27218
Sample ID: 572251011
Matrix: Ground Water
Collect Date: 01-MAR-22 15:55
Receive Date: 04-MAR-22

Client

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 "A	As Received"										
Radium-228	U	1.73	+/-1.68	2.78	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		2.23	+/-1.70			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.494	+/-0.261	0.278	1.00	pCi/L		LXP1	03/23/22	0954 2238657	3
The following Analytic	al Methods w	ere perfoi	rmed:								

3 EPA	A 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			53.9	(15%-125%)

#### Notes:

Method

1

2

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

EPA 904.0/SW846 9320 Modified

Column headers are defined as follows:

Collector:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

Description

Calculation

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Report Date: April 1, 2022

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: AF27226 Sample ID: 572251012 Matrix: Ground Water Collect Date: 02-MAR-22 11:20 Receive Date: 04-MAR-22

Client

Project:

Client ID:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Propo	rtional Counting										
GFPC, Ra228, Liqui	d "As Received"										
Radium-228		2.46	+/-1.12	1.55	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radiur	n-228 Calculation	ı "See Pa	rent Products"								
Radium-226+228 Sum		2.81	+/-1.14			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, I	iquid "As Receiv	red"									
Radium-226		0.355	+/-0.211	0.243	1.00	pCi/L		LXP1	03/23/22	0954 2238657	3
The following Analy	ytical Methods w	ere perfo	rmed:								
Method	Description					N.	Analy:	st Comment	S		

Method	Description	Analyst Comme
1	EPA 904.0/SW846 9320 Modified	<u>-</u>
7=7	The state of the s	

2 Calculation EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 80.8 (15%-125%)

Notes:

Collector:

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 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27227 Sample ID: 572251013 Matrix: Ground Water Collect Date: 02-MAR-22 11:25 Receive Date: 04-MAR-22

Client

Project: Client ID: SOOP001

SOOP00119

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting									*
GFPC, Ra228, Liquid	"As Received"									
Radium-228		2.10	+/-1.08	1.51	3.00	pCi/L		JXC9 03/31/22	1038 2238666	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	rent Products"							
Radium-226+228 Sum		2.59	+/-1.12			pCi/L		NXL1 03/31/22	1508 2238665	2
Rad Radium-226										
Lucas Cell, Ra226, Li	quid "As Recei	ved"								
Radium-226		0.496	+/-0.264	0.304	1.00	pCi/L		LXP1 03/23/22	0954 2238657	3
The following Analyt	The following Analytical Methods were performed:									
Method	Description					1	Analy:	st Comments		

Method Description EPA 904.0/SW846 9320 Modified 2 Calculation

EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 71 (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 1, 2022

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: AF27225 Sample ID: 572251014 Matrix: Ground Water Collect Date: 02-MAR-22 12:31 Receive Date: 04-MAR-22

Client ID: SOOP001

SOOP00119

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		3.75	+/-1.89	2.82	3.00	pCi/L		JXC9	03/31/22	1038 2238666	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		4.67	+/-1.92			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liqi	uid "As Recei	ved"									
Radium-226		0.919	+/-0.375	0.437	1.00	pCi/L		LXP1	03/23/22	0954 2238657	3
The following Analytic	eal Methods w	ere perfo	rmed:								
Method	Description					1	Analys	st Comments	S		

Danissas 122 Terrara	OFDO D-220 I ::: 4 !/ 4 D: 4!!			(0.0	(150/ 1050/)
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	A 903.1 Modified				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 60.8 (15%-125%)

# Notes:

1

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

EPA 904.0/SW846 9320 Modified

Calculation

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:

Analyst Comments

Report Date: April 1, 2022

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: AF27224
Sample ID: 572251015
Matrix: Ground Water
Collect Date: 02-MAR-22 13:54
Receive Date: 04-MAR-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	t Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting	5									
GFPC, Ra228, Liquid '	"As Received"										
Radium-228	U	1.79	+/-1.29	2.01	3.00	pCi/L		JXC9 (	03/31/22	1038 2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		3.13	+/-1.36			pCi/L		NXL1 (	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226	3/2 	1.35	+/-0.416	0.352	1.00	pCi/L		LXP1 (	03/23/22	0954 2238657	3
The following Analyti	cal Methods w	ere perfo	ormed:								

Method Description

Calculation

3 EPA	v 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 62.1 (15%-125%)

# Notes:

1

2

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

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

**QC** Summary

Report Date: April 1, 2022

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 572251

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow Batch 2238	8666	§ <u>-</u>											
QC1205036858 Radium-228	572251001	DUP	Uncertainty	3.88 +/-1.33		3.94 +/-1.30	pCi/L	1.46		(0% - 100%)	JXC9	03/31/2	2 10:37
QC1205036859 Radium-228	LCS		46.6 Uncertainty			40.0 +/-3.81	pCi/L		86	(75%-125%)		03/31/2	2 10:37
QC1205036857 Radium-228	MB		Uncertainty			2.03 +/-1.27	pCi/L					03/31/2	2 10:37
Rad Ra-226 Batch 2238	8657	r <del></del>											
QC1205036840 Radium-226	572251001	DUP	Uncertainty	2.77 +/-0.605		2.70 +/-0.521	pCi/L	2.27		(0%-20%)	LXP1	03/23/2	2 10:26
QC1205036842 Radium-226	LCS		26.4 Uncertainty			23.2 +/-1.56	pCi/L		87.8	(75%-125%)		03/23/2	2 10:26
QC1205036839 Radium-226	MB		Uncertainty		U	0.412 +/-0.306	pCi/L					03/23/2	2 10:26
QC1205036841 Radium-226	572251001	MS	133 Uncertainty	2.77 +/-0.605		104 +/-7.59	pCi/L		76.6	(75%-125%)		03/23/2	2 10:26

#### Notes:

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

The Qualifiers in this report are defined as follows:

\*\* Analyte is a Tracer compound

Result is less than value reported

> Result is greater than value reported

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

FA Failed analysis.

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Page 1 of 2

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# **QC Summary**

Page 2 of 2 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Η Analytical holding time was exceeded J See case narrative for an explanation Value is estimated K Analyte present. Reported value may be biased high. Actual value is expected to be lower. L Analyte present. Reported value may be biased low. Actual value is expected to be higher. Μ M if above MDC and less than LLD M REMP Result > MDC/CL and < RDL N/A RPD or %Recovery limits do not apply. N1 See case narrative ND Analyte concentration is not detected above the detection limit NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

R Sample results are rejected

572251

Workorder:

Q

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- Gamma Spectroscopy--Uncertain identification UJ
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- Λ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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

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

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

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

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

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## Radiochemistry Technical Case Narrative Santee Cooper SDG #: 572251

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:** 2238666

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

GEL Sample ID#	Client Sample Identification
572251001	AF27207
572251002	AF27202
572251003	AF27203
572251004	AF27204
572251005	AF27206
572251006	AF27205
572251007	AF27199
572251008	AF27200
572251009	AF27201
572251010	AF27208
572251011	AF27218
572251012	AF27226
572251013	AF27227
572251014	AF27225
572251015	AF27224
1205036857	Method Blank (MB)
1205036858	572251001(AF27207) Sample Duplicate (DUP)
1205036859	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 were non-homogenous matrix. Samples contain sedimentation.

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

#### **Method Blank Criteria**

The blank result (See Below) is greater than the MDC but less than the required detection limit.

ſ	Sample	Analyte	Value
I	1205036857 (MB)	Radium-228	Result: 2.03 pCi/L > MDA: 1.91 pCi/L <= RDL: 3.00 pCi/L

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#### **Technical Information**

#### Recounts

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: 2238657

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

<b>GEL Sample ID#</b>	Client Sample Identification
572251001	AF27207
572251002	AF27202
572251003	AF27203
572251004	AF27204
572251005	AF27206
572251006	AF27205
572251007	AF27199
572251008	AF27200
572251009	AF27201
572251010	AF27208
572251011	AF27218
572251012	AF27226
572251013	AF27227
572251014	AF27225
572251015	AF27224
1205036839	Method Blank (MB)
1205036840	572251001(AF27207) Sample Duplicate (DUP)
1205036841	572251001(AF27207) Matrix Spike (MS)
1205036842	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 were non-homogenous matrix.

#### **Technical Information**

#### Recounts

Samples 1205036839 (MB), 1205036842 (LCS) and 572251006 (AF27205) were degassed and recounted to verify sample results. The recount results are similar to the original results. Original results are reported

Page 21 of 26 SDG: 572251

## **Miscellaneous Information**

## **Additional Comments**

The matrix spike, 1205036841 (AF27207MS), 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 22 of 26 SDG: 572251

Chain of Custody 572251



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

Cus	stomer Email	/Report Recip	ient:	Da	ite R	esults Ne	eded by	<b>/</b> :		Pi	roject/	Task/	Unit #:	Rerun requ	est for ar	ny fia	gged	QC
	LCWILLIA	@santee	cooper.com	-	/				1215	567	1 <u>_</u>	402.c	9.G01	<u>/365∞</u> γ <sub>6</sub>	es No			
															A	nalys	s Grou	I <u>P</u>
	oworks ID # ternal use ly)	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	Rep     Mis	Comments hod # orting limit c. sample info orther notes	KAD 226	RAD 228	TOTAL RAD CALC.	
AF	27207	WA-P-15		2/28	/22	1029	BSB	2	P	6	GW	2			X	X	×	
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	203	140	ur ur	1		1307												
	204	WAP-14A				1211												
	206	148				1402												
-	205	140	8.			1521												
AF	27199	WAP-12		3/1,	/22	1149												
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	201	13				1301												
	208	T 16		1.1		1437		<u> </u>		Ī							L	
24°	Relinquished by Brown Relinquished by Relinquished By Relinqui	35594 Employee#	3/4/22 Date	Time	5 e	Receive	<u>L</u>	E E	mployee GFL  TEL  mployee	# 3	Date  S/4/ Date  Date	/22 e - ()_	Time C945 Time (U45) Time	Sample Receiving (Inter TEMP (°C):  Correct pH: Yes  Preservative Lot#:  Date/Time/Init for preservations	Initia			
	Ag □ C Al □ F As □ K B □ L Ba □ M Be □ M	e ☐ Se ☐ Sn i ☐ Sr fig ☐ Ti fin ☐ T] fio ☐ V la ☐ Zn li ☐ Hg	TO DOC TP I NI F CT INC	)C /TPO4 13-N 12 12		MI:    BTEX   Napthale   THM/H   VOC   Oil & G   E Coli   Total Col   Dissolve   Dissolve   Rad 226   Rad 228   PCB	ene AA rease oliform od As od Fe		GN Walths Gyp belo A C No L So L Pu L So L So L So L So L So L So L So L So	osum(a m) IM A: mal met fuble n riny (c). Moista iffnes i derides rucle 3	alls fetals (SO4) rc		Coal Ultimate  '' Moist  Ash 'Sulfur  BTUs  CHN Uchn Uchn Uchn Uchn CHN Ucher Tests: XRF Scan HGI Fineness Particulate M	Tanimenta  12 LOI  13 % Carbon  13 Mineral  Analysis  13 Sieve  13 % Moisture  NPDES  11 Oil & Grease		aktor colini colini di Postala ed Or proble	l Charles de la constant de l'acces de l'acces	

# oct tub bue bute (tub omy).\_\_\_\_\_\_

# **Chain of Custody**



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

Description   Sample tecesion   Sample tecesio	Customer Email/Report Recipient:		Date Results Needed by:				Project/Task/Unit #:				Rerun reques	for a	ny fla	gged	QC			
Labworks 1D #   Sample Location   Description   Descript	LCWILLIA	Ų	@cantooco	oner com	,	,			1215	67	/ JM	02.0	9. GØI	/ 365cc Yes	No			
Comments   Comments			_@34/11.666.6	оренсон			<del></del>		*****						inasex	nalvsi	s Grou	D
Supplementable   Description					1		ı				1			Comments	-	T	,	
227	(Internal use	USE OF THE SHOP OF			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>Repo</li> <li>Misc</li> </ul>	od # rting limit . sample info	FAND 226	10	3	
227	AFZ1218	w	AP-25		3/1/22	[555	BEE	2	P	G	GW	2.		į.	*	*	X	
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224	227		- 4	DUP		1125												
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□ B         □ Li         □ Sr         □ B         □ Cl         □ Cl         □ Cl         □ Cl         □ Cl         □ Cl         □ Total Coliform         □ Dissolved As         □ Dissolved As         □ Parity (CaSOJ)         □ CHN											all	1				101.30		
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□ Ca □ Mo □ V □ NO3 □ Dissolved As □ Dissolved Fe □ Dissolved Fe □ Dissolved Fe □ Rad 226 □ Pit □ Co □ Ni □ Hg □ CrVI □ CrVI □ Pb □ CrVI □ Dissolved Fe □ D							oliform						□ CHN		10	ed O	ii.	
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**GEL** Laboratories LLC

# SAMPLE RECEIPT & REVIEW FORM

Client:	SDG/AR/COC/Work Order: 572251
Received By: DC	Date Received: S-4-77
Carrier and Tracking Number	FedEx Express FedEx Ground URS Field Services Qurier Other  COOLEY# 2 = 50  COOLEY# 2 = 50
Suspected Hazard Information	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?	Hazard Class Shipped:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) Did the client designate the samples are to be received as radioactive?	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	Maximum Net Counts Observed* (Observed Counts - Area Background Counts):  Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	EOC notation or hazard labels on containers equal client designation.  If D or E is yes, select Hazards below.
E) Did the RSO identify possible hazards?	PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria	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?	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) 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 #: IR6-21 Scondary 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?	Sample ID's and Corporate Afficated:  If Preservation added, Lott:  The Preservation added, Lott:
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 Hquid 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 U	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)
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?	
COC form is properly signed in	Circle Applicable: Not relinquished Other (describe)
relinquished/received sections?  Comments (Use Continuation Form if needed):	
PM (or PMA) review:	Initials 9 Date 3/122 Page of

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 01 April 2022

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









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

gel.com

January 10, 2023

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

a member of The GEL Group INC

Re: ABS Lab Analytical Work Order: 603698

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 09, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

**Enclosures** 

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

# Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 603698 GEL Work Order: 603698

#### The Qualifiers in this report are defined as follows:

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

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.

	Inlie	Roberson	
Reviewed by	.TO 127.000		

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

Certificate of Analysis

Project:

Client ID:

Report Date: January 9, 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: AF50607

Sample ID:

603698001

Matrix:

GW

Collect Date:

06-DEC-22 10:22 09-DEC-22

Receive Date: Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proportio	nal Counting												3.
GFPC, Ra228, Liquid "A	As Received"												
Radium-228	U	1.97	+/-1.34	2.13	3.00	pCi/L			JE1	12/30/22	1317	2354612	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"										
Radium-226+228 Sum		4.82	+/-1.47			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	id "As Recei	ved"											
Radium-226		2.85	+/-0.594	0.335	1.00	pCi/L			LXP1	12/19/22	0936	2354602	3
The following Analytic	al Methods w	ere perfo	ormed:										
Method	Description	(34.)				A	Analys	st Co:	mments	S			
1	EPA 904.0/SW	846 9320 1	Modified										

2	Calculation				
3 E	PA 903.1 Modified				
Surrogate/Tracer Recovery	y Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.2	(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 3 of 18 SDG: 603698

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

Certificate of Analysis

Project:

Client ID:

Report Date: January 9, 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: AF50606

Sample ID:

603698002

Matrix:

GW

Collect Date:

06-DEC-22 11:34

Receive Date: Collector:

09-DEC-22 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF A	nalyst Date	Time Batch	Method
Rad Gas Flow Proportion	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228		4.41	+/-1.40	1.74	3.00	pCi/L		JE	1 12/30/22	1317 2354612	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		9.29	+/-1.57			pCi/L		1 N	XL1 01/09/23	1253 2354613	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		4.88	+/-0.720	0.210	1.00	pCi/L		L	KP1 12/19/22	0936 2354602	3
The following Analytic	al Methods w	ere perfo	rmed:								

Method	Description	Analyst Comments

EPA 904.0/SW846 9320 Modified 1

2 Calculation

EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.2	(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

Page 4 of 18 SDG: 603698

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

Certificate of Analysis

Project:

Client ID:

Report Date: January 9, 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:

AF50605

Sample ID:

603698003

Matrix:

GW

Collect Date:

06-DEC-22 13:25

Receive Date: Collector: 09-DEC-22 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Rad Gas Flow Proport	ional Counting												3.
GFPC, Ra228, Liquid	"As Received"												
Radium-228	U	0.730	+/-1.10	1.90	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-	228 Calculatio	n "See Pa	arent Products"										
Radium-226+228 Sum		3.08	+/-1.24			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Lic	quid "As Recei	ved"											
Radium-226		2.35	+/-0.561	0.414	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3
The following Analyt	ical Methods w	ere perfo	ormed:										
Method	Description	190				2	Analy	st Coi	nment	S			

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

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" Result Normal Recovery Acceptable Lin

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:

Units

Result

Client ID:

PF

Nominal Nominal

Report Date: January 9, 2023

DF Analyst Date Time Batch Method

Acceptable Limits

(15%-125%)

SOOP00119

Recovery%

95

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: AF50604

Sample ID:

603698004

Matrix:

GW

Collect Date:

06-DEC-22 14:34

Result Uncertainty

Dacaiva Data

09-DEC-22

Receive Date.	U9-DEC
Collector:	Client

**Qualifier** 

Rad Gas Flow Prop	ortional Counting									
GFPC, Ra228, Liqu	iid "As Received"									
Radium-228	1.38	+/-0.850	1.27	3.00	pCi/L		JE1	12/30/22	1318 2354612	1
Radium-226+Radiu	ım-228 Calculation "See Par	ent Products"								
Radium-226+228 Sum	2.80	+/-0.941			pCi/L	1	NXL1	01/09/23	1253 2354613	2
Rad Radium-226										
Lucas Cell, Ra226,	Liquid "As Received"									
Radium-226	1.42	+/-0.404	0.266	1.00	pCi/L		LXP1	12/19/22	1009 2354602	3
The following Ana	lytical Methods were perfor	med:								
Method	Description				Ana	lyst Coı	mment	S		
1	EPA 904.0/SW846 9320 M	odified								
2	Calculation									
3	EPA 903.1 Modified									

MDC

RL

#### Notes:

Barium-133 Tracer

Parameter

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

GFPC, Ra228, Liquid "As Received"

Column headers are defined as follows:

Surrogate/Tracer Recovery

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

Test

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Client ID:

Report Date: January 9, 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: AF50602

Sample ID:

603698005

Matrix:

GW

Collect Date:

07-DEC-22 10:07

Receive Date: Collector:

09-DEC-22 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"											
Radium-228		2.21	+/-0.915	1.19	3.00	pCi/L			JE1	12/30/22	1318 2354612	1
Radium-226+Radium-	228 Calculatio	n "See Pa	arent Products"									
Radium-226+228 Sum		3.52	+/-1.00			pCi/L		1	NXL1	01/09/23	1253 2354613	2
Rad Radium-226												
Lucas Cell, Ra226, Lic	quid "As Recei	ved"										
Radium-226	ħ.	1.31	+/-0.409	0.291	1.00	pCi/L			LXP1	12/19/22	1009 2354602	3
The following Analyt:	ical Methods w	ere perfo	ormed:									
Method	Description					a	Analy:	st Co	mment	s		
1	EPA 904.0/SW	/846 9320 1	Modified									

-	Culculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ry Test	Result	Nominal	Recovery%	Acceptable Limit

its Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 96.1 (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

Calculation

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Units

Result

Client ID:

PF

Nominal Nominal

Report Date: January 9, 2023

DF Analyst Date Time Batch Method

Acceptable Limits

(15%-125%)

SOOP00119

Recovery%

94.4

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:

AF50603

Sample ID: Matrix:

603698006 GW

Collect Date:

07-DEC-22 10:12

Result Uncertainty

Receive Date:

09-DEC-22

Collector: Client

Qualifier

Rad Gas Flow Propor	rtional Counting									
GFPC, Ra228, Liquio	d "As Received"									
Radium-228	3.11	+/-1.19	1.58	3.00	pCi/L		JE1	12/30/22	1318 2354612	1
Radium-226+Radium	n-228 Calculation "See Pare	ent Products"								
Radium-226+228 Sum	4.03	+/-1.24			pCi/L	1	NXL1	01/09/23	1253 2354613	2
Rad Radium-226										
Lucas Cell, Ra226, L	iquid "As Received"									
Radium-226	0.922	+/-0.365	0.315	1.00	pCi/L		LXP1	12/19/22	1009 2354602	3
The following Analy	rtical Methods were perforn	ned:								
Method	Description				Ana	lyst Co	mment	S		
1	EPA 904.0/SW846 9320 Mo	dified								
2	Calculation									
3	EPA 903.1 Modified									

RL

MDC

# Notes:

Barium-133 Tracer

Parameter

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

GFPC, Ra228, Liquid "As Received"

Column headers are defined as follows:

Surrogate/Tracer Recovery

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

Test

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Client ID:

Report Date: January 9, 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: AF50608

Sample ID:

603698007

Matrix:

GW

Collect Date:

07-DEC-22 13:42

Receive Date: Collector:

09-DEC-22 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting											
GFPC, Ra228, Liquid	l "As Received"											
Radium-228		2.88	+/-1.36	1.94	3.00	pCi/L			JE1	12/30/22	1318 2354612	1
Radium-226+Radium	-228 Calculation	n "See Pa	arent Products"									
Radium-226+228 Sum		5.82	+/-1.48			pCi/L		1	NXL1	01/09/23	1253 2354613	2
Rad Radium-226												
Lucas Cell, Ra226, Li	iquid "As Recei	ved"										
Radium-226	2. <del>1</del> 5	2.94	+/-0.590	0.322	1.00	pCi/L			LXP1	12/19/22	1009 2354602	3
The following Analy	tical Methods w	ere perfo	ormed:									
Method	Description	1305	Analyst Comments									
1	EPA 904.0/SW	846 9320 1	Modified	-								

1 EPA	A 904.0/SW846 9320 Modified				
2 Calc					
3 EPA					
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.3	(15%-125%)

#### Notes:

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

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Project:

Client ID:

Report Date: January 9, 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: AF50609 Sample ID: 603698008

Matrix: GW

Collect Date: 07-DEC-22 13:47 Receive Date: 09-DEC-22 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"												
Radium-228		2.04	+/-1.29	2.00	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-	-228 Calculatio	n "See Par	ent Products"										
Radium-226+228 Sum		6.07	+/-1.46			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Li	quid "As Recei	ved"											
Radium-226	95)	4.03	+/-0.687	0.284	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed: Method Description Analyst Comments

EPA 904.0/SW846 9320 Modified 1

2 Calculation EPA 903.1 Modified

Surrogate/Tracer Recovery Result Nominal Nominal Recovery% Acceptable Limits Test

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%) 82.4

#### 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

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Certificate of Analysis

Report Date: January 9, 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: AF50610 Sample ID: 603698009

Matrix: GW

Collect Date: 07-DEC-22 15:03 Receive Date: 09-DEC-22 Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Ana	lyst Date	Time Batch	Method
Rad Gas Flow Prop	ortional Counting										
GFPC, Ra228, Liqu	uid "As Received"										
Radium-228	U	-0.410	+/-0.632	1.35	3.00	pCi/L		JE1	12/30/22	1318 2354612	1
Radium-226+Radiu	ım-228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.35	+/-0.925			pCi/L		1 NXL	1 01/09/23	1253 2354613	2
Rad Radium-226											
Lucas Cell, Ra226,	Liquid "As Recei	ved"									
Radium-226		3.35	+/-0.675	0.404	1.00	pCi/L		LXP	12/19/22	1009 2354602	3
The following Ana	ılytical Methods w	ere perfo	ormed:								
Mathad	Description	5,965					Amalaz	at Comman	ta		

Method	Description	Analyst Comments					
1 EPA 904.0/SW846 9320 Modified							
2	Calculation						
3	EPA 903.1 Modified						
Surrogate/Tracer Reco	overy Test	Result	Nominal	Recovery%	Acceptable Limits		
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			92.9	(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

QC Summary

Report Date: January 9, 2023

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 603698

Parmname	NOM	Sample Qua	I QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gas Flow								
Batch 2354612 —								
QC1205268192 603698001 DUP								
Radium-228	U	1.97 U	1.00	pCi/L	N/A		N/A JE1	12/30/22 13:17
	Uncertainty	+/-1.34	+/-0.897					
QC1205268193 LCS								
Radium-228	21.8		18.5	pCi/L		84.7	(75%-125%)	12/30/22 13:17
	Uncertainty		+/-1.21				×	
QC1205268190 MB								
Radium-228		U	0.296	pCi/L				12/30/22 13:17
	Uncertainty		+/-0.267	1				
	0110-011111111							
Rad Ra-226								
Batch 2354602 ———								
QC1205268164 603698001 DUP Radium-226		2.85	3.51	pCi/L	20.9*		(0%-20%) LXP1	12/10/22 10:41
Radium-220	T In a autointer	+/-0.594	+/-0.651	рсил	20.9		(070-2070) LAPI	12/19/22 10.41
	Uncertainty	±/-0.394	+/-0.031					
QC1205268167 LCS								
QC1205268167 LCS Radium-226	26.5		25.9	pCi/L		97.7	(75%-125%)	12/19/22 10:41
Radium-220	Uncertainty		+/-1.56	репъ		21.1	(1370-12370)	12/13/22 10.41
	Officertainty		17-1.50					
QC1205268162 MB								
Radium-226		U	0.191	pCi/L				12/19/22 10:09
Rudium 220	Uncertainty		+/-0.193	ревы				12/15/22 10.05
	Oncerumity		17-0.123					
QC1205268166 603698001 MS								
Radium-226	133	2.85	122	pCi/L		89.5	(75%-125%)	12/19/22 10:41
A SOCIONA STANIA AND AND CO	Uncertainty	+/-0.594	+/-8.71	P D		02.5	(.57012570)	12.12/22 10.71
	Oncommity	. 0.001	7 0.71					

#### 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: 603698

Page 2 of 2

Parmane

NOM Sample Qual OC Units RPD% REC% Range And 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 #: 603698

Product: GFPC, Ra228, Liquid

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

**Analytical Batch:** 2354612

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

<b>GEL Sample ID#</b>	Client Sample Identification
603698001	AF50607
603698002	AF50606
603698003	AF50605
603698004	AF50604
603698005	AF50602
603698006	AF50603
603698007	AF50608
603698008	AF50609
603698009	AF50610
1205268190	Method Blank (MB)
1205268192	603698001(AF50607) Sample Duplicate (DUP)
1205268193	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**

Sample 603698009 (AF50610) was non-homogenous matrix. Samples were yellow and cloudy 603698009 (AF50610).

Product: Lucas Cell, Ra226, Liquid Analytical Method: EPA 903.1 Modified

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

**Analytical Batch:** 2354602

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

GEL Sample ID# Client Sample Identification

603698001 AF50607

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603698002	AF50606
603698003	AF50605
603698004	AF50604
603698005	AF50602
603698006	AF50603
603698007	AF50608
603698008	AF50609
603698009	AF50610
1205268162	Method Blank (MB)
1205268164	603698001(AF50607) Sample Duplicate (DUP)
1205268166	603698001(AF50607) Matrix Spike (MS)
1205268167	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

Sample 603698009 (AF50610) was non-homogenous matrix. Samples 603698009 (AF50610) were yellow and cloudy.

#### **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
1205268164 (AF50607DUP)	Radium-226	RPD 20.9* (0%-20%) RER 1.12 (0-3)

#### **Miscellaneous Information**

#### **Additional Comments**

Aliquots for the matrix spikes, 1205268166 (AF50607MS), were reduced to conserve sample volume.

#### **Certification Statement**

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

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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 Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LINDA . WILL IAMS @santeecooper.com 125915 / JM02.09. GOI.1 / 36500 Yes No **Analysis Group** Labworks ID# Sample Location/ Comments 228 75 (Internal use Collection Date Description Collection Time Matrix(see below (see Sample Collecto only) Preservative (below) 226/ Reporting limit 0 TOTAL RAD Grab (G) or Composite (C Misc. sample info Any other notes RAD NJK 12/6/22 2 G GW AF50607 WAP-29 1022 + × BM 06 WAP- 28 1134 05 WAP- 27 1325 WLF-42-2 64 WAP. 1434 AF506 02 12/7/22 1007 WLF-A2-1 WLF- AZ-1 DUP 03 1012 CGYP-7 08 1342 09 OGYP-7 DUP 1347 10 CCMAP - 8 1503 Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C): Initial: 0953 8 Amoun 0955 12/9/22 35594 12/9/22 GEL Relinquished by: Correct pH: Yes Employee# Date Received by: Time Employee # Date Time Preservative Lot#: 9 22 440 Relinquished by: Employee# Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. Gypsum Coal □ Ag Flyash Oil □ Cu □ Sb TOC BTEX □ Wallboard Ultimate U AI □ Fe Trans. Oil Qual. ☐ Se Ammonia DOC □ Napthalene Gypsum(all ☐ % Moisture %Moisture DIOL □ As  $\square K$ □ Sn ☐ THM/HAA TP/TPO4 below) □ Ash Color □ % Carbon □ VOC □В □ Li NH3-N □ AIM Acidity □ Sr ☐ Sulfur □ Oil & Grease ☐ Mineral □ TOC Dielectric Strength □ BTUs □ Ba □ E. Coli □ Mg □ Ti Analysis □ Total metals IFT Cl ☐ Total Coliform □ Volatile Matter Sieve ☐ Soluble Metals Dissolved Gases □ Be □ Mn □ T1 NO2 pН D Purity (CaSO4) □ CHN ☐ % Moisture Used Oil Br Dissolved As Other Tests: □ Ca □ Mo  $\Box V$ □ % Moisture Flashpoint ☐ Dissolved Fe NO<sub>3</sub> □ Sulfites ☐ XRF Scan Metals in oil □ Cd □ Na **NPDES**  $\Box Zn$ □ Rad 226 **SO4** □pH HGI (As,Cd,Cr,Ni,Pb Rad 228 □ Oil & Grease □ Chlorides □ Fineness Hg) □ Co □ Ni □ Hg □ PCB □ As ☐ Particle Size ☐ Particulate Matter □ Pb □ Cr □ CrVI O TSS □ Sulfur **GOFER** 

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



SAMPLE RECEIPT & REVIEW FORM

Client: SOOP				SDO	G/AR/COC/Work Order: 603698	
Rec	eived By: StacyBoone				e Received: 12 - 10 - 22	
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Cou	arier Other
Sus	occted Hazard Information	Yes	S,	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Grounds	up for further investigation.
A)S	nipped as a DOT Hazardous?		-	Haz	ard Class Shipped:  UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No	
	old the client designate the samples are to be ived as radioactive?		/	cod	C notation or radioactive stickers on containers equal client designation.	
	old the RSO classify the samples as pactive?		/	Max	rimum Net Counts Observed* (Observed Counts - Area Background Counts): Z CP Classified as: Rad 1 Rad 2 Rad 3	M/mR/Hr
D) I	Did the client designate samples are hazardous?		1		C notation or hazard labels on containers equal client designation.	
E) [	old the RSO identify possible hazards?		/	IfD	or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
	Sample Receipt Criteria	Yes	×	No.	Comments/Qualifiers (Required for Non-Conforming Ite	ms)
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?	/			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: 20 °c
4	Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: IB 22 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?	/			Sample ID'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? Yes No NA(If yes, take to V  Do liquid VOA vials contain acid preservation? Yes No NA(If unknown, selector liquid VOA vials free of headspace? Yes No NA  Sample ID's and containers affected:	The second control of the second control of
8	Samples received within holding time?	/			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?	1			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?	/			Circle Applicable: No container count on COC Other (describe)	
12	Are sample containers identifiable as GEL provided by use of GEL labels?	1	6.0			
13	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)	
Con	nments (Use Continuation Form if needed):					

List of current GEL Certifications as of 09 January 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						
Temessee Texas NELAP	T104704235-22-20						
Utah NELAP	SC000122022-37						
Vermont	VT87156						
Virginia NELAP	460202						
Washington	C780						
vv asilligion	CIOU						



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-221142-1

Client Project/Site: 125915/JM02.08.G01.3/36500

For:

South Carolina Public Service Authority Santee Cooper PO BOX 2946101 Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by:

9/19/2022 6:13:11 PM

Jerry Janier

Jerry Lanier, Project Manager I

(912)250-0281 Jerry.Lanier@et.eurofinsus.com

·····LINKS ······

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Have a Question?



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Job ID: 680-221142-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-221142-1

#### Receipt

The samples were received on 9/15/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.7°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.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-221142-1	AF38156	Water	07/06/22 11:37	09/15/22 10:30
680-221142-2	AF38157	Water	07/06/22 12:51	09/15/22 10:30
680-221142-3	AF38158	Water	07/18/22 12:01	09/15/22 10:30
680-221142-4	AF38159	Water	07/18/22 15:22	09/15/22 10:30
680-221142-5	AF38160	Water	07/14/22 13:54	09/15/22 10:30
680-221142-6	AF38161	Water	07/11/22 12:55	09/15/22 10:30
680-221142-7	AF38162	Water	07/13/22 10:00	09/15/22 10:30
680-221142-8	AF38163	Water	07/12/22 11:53	09/15/22 10:30
680-221142-9	AF38164	VVater	07/13/22 14:34	09/15/22 10:30
680-221142-10	AF38165	Water	07/13/22 13:22	09/15/22 10:30
680-221142-11	AF38166	Water	07/13/22 13:27	09/15/22 10:30
680-221142-12	AF38167	Water	07/18/22 11:06	09/15/22 10:30

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

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: 680-221142-1

#### Qualifiers

IV	e	t	а	ı	S

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

#### Glossary

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

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)

TNTC Too Numerous To Count

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38156

Job ID: 680-221142-1

Lab Sample ID: 680-221142-1

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4830	2000	-	ug/L	1	-	6010D	Total
								Recoverable
Calcium	2850	500		ug/L	1		6010D	Total
								Recoverable
lron	4260	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	1240	500		ug/L	1		6010D	Total
								Recoverable
Aluminum	1620	100		ug/L	1		6020B	Total
								Recoverable
Arsenic	5.23	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	81.1	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	1.41	0.500		ug/L	1		6020B	Total
								Recoverable

# Client Sample ID: AF38157 Lab Sample ID: 680-221142-2

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	97000	2000	8 8	ug/L	1	2000	6010D	Total
								Recoverable
Potassium	7160	1000		ug/L	1		6010D	Total
								Recoverable
Calcium	346000	500		ug/L	1		6010D	Total
								Recoverable
Iron	24500	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	46200	500		ug/L	1		6010D	Total
								Recoverable
Arsenic	21.2	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	261	5.00		ug/L	1		6020B	Total
								Recoverable

# Client Sample ID: AF38158 Lab Sample ID: 680-221142-3

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	45600	2000		ug/L		_	6010D	Total
								Recoverable
Potassium	1980	1000		ug/L	1		6010D	Total
								Recoverable
Calcium	209000	500		ug/L	1		6010D	Total
								Recoverable
Iron	19600	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	11400	500		ug/L	1		6010D	Total
								Recoverable
Barium	153	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	0.870	0.500		ug/L	1		6020B	Total
								Recoverable

# Client Sample ID: AF38159 Lab Sample ID: 680-221142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14100		2000		ug/L	1	-	6010D	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38159 (Continued)

Job ID: 680-221142-1

Lab Sample ID: 680-221142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1890		1000		ug/L	1		6010D	Total
									Recoverable
Calcium	46400		500		ug/L	1		6010D	Total
									Recoverable
Iron	1100		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	3870		500		ug/L	1		6010D	Total
									Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF38160 Lab Sample ID: 680-221142-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	27600	·	2000	-	ug/L	1		6010D	Total
									Recoverable
Potassium	5100		1000		ug/L	1		6010D	Total
									Recoverable
Calcium	57700		500		ug/L	1		6010D	Total
									Recoverable
Magnesium	4790		500		ug/L	1		6010D	Total
									Recoverable
Barium	9.12		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF38161 Lab Sample ID: 680-221142-6

Analyte	Result	Qualifier	RL M	DL Un	it	Dil Fac	D	Method	Ргер Туре
Sodium	3880	2	000	ug/	/L	1		6010D	Total
									Recoverable
Calcium	11200		500	ug/	/L	1		6010D	Total
									Recoverable
Iron	1340		100	ug/	/L	1		6010D	Total
									Recoverable
Magnesium	875		500	ug/	/L	1		6010D	Total
									Recoverable
Aluminum	304		100	ug/	/L	1		6020B	Total
									Recoverable
Barium	20.1		5.00	ug/	/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF38162 Lab Sample ID: 680-221142-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	15100		2000		ug/L	1	_	6010D	Total
									Recoverable
Potassium	4070		1000		ug/L	1		6010D	Total
									Recoverable
Calcium	683000		500		ug/L	1		6010D	Total
									Recoverable
Iron	399		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	14800		500		ug/L	1		6010D	Total
									Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38163

Job ID: 680-221142-1

Lab Sample ID: 680-221142-8

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	127000	2000	-	ug/L		-	6010D	Total
								Recoverable
Potassium	26500	1000		ug/L	1		6010D	Total
								Recoverable
Calcium	457000	500		ug/L	1		6010D	Total
								Recoverable
Molybdenum	35.6	10.0		ug/L	1		6010D	Total
								Recoverable
Iron	5460	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	85400	500		ug/L	1		6010D	Total
								Recoverable
Arsenic	252	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	219	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF38164

Lab Sam	nla ID	- 680-221	11/2-9
Lab Jaiii	DIC ID	. 000-22	1142-3

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	23300	2000		ug/L	1	57-3	6010D	Total
								Recoverable
Potassium	13100	1000		ug/L	1		6010D	Total
								Recoverable
Calcium	158000	500		ug/L	1		6010D	Total
								Recoverable
Iron	5000	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	28300	500		ug/L	1		6010D	Total
								Recoverable
Aluminum	290	100		ug/L	1		6020B	Total
								Recoverable
Arsenic	93.3	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	80.0	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF38165

#### Lab Sample ID: 680-221142-10

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	116000	2000	31	ug/L	1	-	6010D	Total
								Recoverable
Potassium	20300	1000		ug/L	1		6010D	Total
								Recoverable
Calcium	460000	500		ug/L	1		6010D	Total
								Recoverable
Iron	16300	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	66100	500		ug/L	1		6010D	Total
								Recoverable
Arsenic	79.5	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	206	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/JM02.08.G01.3/36500

Client Sample ID: AF38166

Job ID: 680-221142-1

Lab Sample ID: 680-221142-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	116000	· -	2000		ug/L		_	6010D	Total
									Recoverable
Potassium	19700		1000		ug/L	1		6010D	Total
									Recoverable
Calcium	450000		500		ug/L	1		6010D	Total
				5-201201					Recoverable
Iron	16100		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	65700		500		ug/L	1		6010D	Total
									Recoverable
Arsenic	86.2		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	216		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF38167

#### Lab Sample ID: 680-221142-12

Analyte	Result	Qualifier R	. MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	40600	200	)	ug/L	1		6010D	Total
								Recoverable
Potassium	2420	100	)[	ug/L	1		6010D	Total
								Recoverable
Calcium	228000	50	)	ug/L	1		6010D	Total
								Recoverable
Iron	10500	10	)	ug/L	1		6010D	Total
								Recoverable
Magnesium	9820	50	)	ug/L	1		6010D	Total
								Recoverable
Barium	73.1	5.0	)	ug/L	1		6020B	Total
								Recoverable
Cobalt	1.49	0.50	)	ug/L	1		6020B	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

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9/19/2022

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-1

Matrix: Water

#### Client Sample ID: AF38156

Date Collected: 07/06/22 11:37 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	4830		2000		ug/L		09/16/22 10:41	09/19/22 17:18	1
Potassium	1000	U	1000		ug/L		09/16/22 10:41	09/19/22 17:18	1
Calcium	2850		500		ug/L		09/16/22 10:41	09/19/22 17:18	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:18	1
Iron	4260		100		ug/L		09/16/22 10:41	09/19/22 17:18	1
Magnesium	1240		500		ug/L		09/16/22 10:41	09/19/22 17:18	1

Magnesium	1240		500		ug/L		09/16/22 10:41	09/19/22 17:18	1
Method: 6020B - Metals (I	CP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1620		100		ug/L		09/16/22 10:41	09/17/22 17:18	
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Arsenic	5.23		3.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Barium	81.1		5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:18	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:18	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Cobalt	1.41		0.500		ug/L		09/16/22 10:41	09/17/22 17:18	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:18	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:18	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:18	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-2

Matrix: Water

Client Sample ID: AF38157

Date Collected: 07/06/22 12:51 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	97000		2000		ug/L		09/16/22 10:41	09/19/22 17:16	1
Potassium	7160		1000		ug/L		09/16/22 10:41	09/19/22 17:16	1
Calcium	346000		500		ug/L		09/16/22 10:41	09/19/22 17:16	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:16	1
Iron	24500		100		ug/L		09/16/22 10:41	09/19/22 17:16	1
Magnesium	46200		500		ug/L		09/16/22 10:41	09/19/22 17:16	1

	Section 2016				9				
Method: 6020B - Metals (I	CP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/16/22 10:41	09/17/22 17:06	
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Arsenic	21.2		3.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Barium	261		5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:06	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:06	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:06	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:06	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:06	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:06	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-3

Matrix: Water

#### Client Sample ID: AF38158

Date Collected: 07/18/22 12:01 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	45600		2000		ug/L		09/16/22 10:41	09/19/22 17:23	1
Potassium	1980		1000		ug/L		09/16/22 10:41	09/19/22 17:23	1
Calcium	209000		500		ug/L		09/16/22 10:41	09/19/22 17:23	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:23	1
Iron	19600		100		ug/L		09/16/22 10:41	09/19/22 17:23	1
Magnesium	11400		500		ug/L		09/16/22 10:41	09/19/22 17:23	1

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Method: 6020B - Metals (I	CP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:25	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Barium	153		5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:25	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:25	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Cobalt	0.870		0.500		ug/L		09/16/22 10:41	09/17/22 17:25	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:25	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:25	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:25	1
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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-4

Matrix: Water

#### Client Sample ID: AF38159

Date Collected: 07/18/22 15:22 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	14100		2000		ug/L		09/16/22 10:41	09/19/22 17:31	1
Potassium	1890		1000		ug/L		09/16/22 10:41	09/19/22 17:31	1
Calcium	46400		500		ug/L		09/16/22 10:41	09/19/22 17:31	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:31	1
Iron	1100		100		ug/L		09/16/22 10:41	09/19/22 17:31	1
Magnesium	3870		500		ug/L		09/16/22 10:41	09/19/22 17:31	1

Wagnesium	3670		300		ug/L		03/10/22 10.41	03/13/22 17:51	
Method: 6020B - Metals	(ICP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/16/22 10:41	09/17/22 17:37	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Barium	38.4		5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:37	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:37	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:37	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:37	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:37	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:37	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-5

Matrix: Water

Client Sample ID: AF38160

Date Collected: 07/14/22 13:54 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	27600		2000		ug/L		09/16/22 10:41	09/19/22 17:01	1
Potassium	5100		1000		ug/L		09/16/22 10:41	09/19/22 17:01	1
Calcium	57700		500		ug/L		09/16/22 10:41	09/19/22 17:01	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:01	1
Iron	100	U	100		ug/L		09/16/22 10:41	09/19/22 17:01	1
Magnesium	4790		500		ug/L		09/16/22 10:41	09/19/22 17:01	1

Magnesium	47 50		000		ug/L		00/10/22 10.41	00/10/22 17:01	,
Method: 6020B - Metals (I	CP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 16:51	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Barium	9.12		5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:51	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:51	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:51	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:51	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:51	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:51	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-6

Matrix: Water

Client Sample ID: AF38161

Date Collected: 07/11/22 12:55 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	3880		2000		ug/L		09/16/22 10:41	09/19/22 17:38	1
Potassium	1000	U	1000		ug/L		09/16/22 10:41	09/19/22 17:38	1
Calcium	11200		500		ug/L		09/16/22 10:41	09/19/22 17:38	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:38	1
Iron	1340		100		ug/L		09/16/22 10:41	09/19/22 17:38	1
Magnesium	875		500		ug/L		09/16/22 10:41	09/19/22 17:38	1

Magnesium	8/5		500		ug/L		09/16/22 10:41	09/19/22 17:38	1
Method: 6020B - Metals (ICP	/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	304		100		ug/L		09/16/22 10:41	09/17/22 17:41	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Barium	20.1		5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:41	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:41	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:41	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:41	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:41	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:41	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-7

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Matrix: Water

#### Client Sample ID: AF38162

Date Collected: 07/13/22 10:00 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	15100		2000		ug/L		09/16/22 10:41	09/19/22 17:26	1
Potassium Potass	4070		1000		ug/L		09/16/22 10:41	09/19/22 17:26	1
Calcium	683000		500		ug/L		09/16/22 10:41	09/19/22 17:26	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:26	1
Iron	399		100		ug/L		09/16/22 10:41	09/19/22 17:26	1
Magnesium	14800		500		ug/L		09/16/22 10:41	09/19/22 17:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:29	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Barium	38.4		5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:29	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:29	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:29	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:29	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:29	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:29	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-8

Matrix: Water

Client Sample ID: AF38163

Date Collected: 07/12/22 11:53 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	127000		2000		ug/L		09/16/22 10:41	09/19/22 17:08	1
Potassium	26500		1000		ug/L		09/16/22 10:41	09/19/22 17:08	1
Calcium	457000		500		ug/L		09/16/22 10:41	09/19/22 17:08	1
Molybdenum	35.6		10.0		ug/L		09/16/22 10:41	09/19/22 17:08	1
Iron	5460		100		ug/L		09/16/22 10:41	09/19/22 17:08	1
Magnesium	85400		500		ug/L		09/16/22 10:41	09/19/22 17:08	1

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P/MS) - Total Recove	erable							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
100	U	100	-	ug/L		09/16/22 10:41	09/17/22 16:55	
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
252		3.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
219		5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:55	1
0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:55	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:55	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:55	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:55	1
1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:55	1
	P/MS) - Total Recove  Result  100 5.00 252 219 0.500 0.500 5.00 0.500 5.00 2.50 5.00 2.50 1.00	P/MS) - Total Recoverable   Result   Qualifier	Result   Qualifier   RL	P/MS) - Total Recoverable  Result Qualifier RL MDL  100 U 100  5.00 U 5.00  252 3.00  219 5.00  0.500 U 0.500  0.500 U 0.500  5.00 U 5.00  0.500 U 0.500  5.00 U 5.00  2.50 U 5.00  2.50 U 2.50  5.00 U 2.50  1.00 U 1.00	Result   Qualifier   RL   MDL   Unit   Ug/L	Result   Qualifier   RL   MDL   Unit   D	P/MS  - Total Recoverable   Result   Qualifier   RL   MDL   Unit   D   Prepared   09/16/22 10:41   100   U   100   Ug/L   09/16/22 10:41   100   U   100   Ug/L   09/16/22 10:41   10.500   U   10.500   Ug/L   Result   Qualifier   RL   MIDL   Unit   D   Prepared   Analyzed	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38164

Lab Sample ID: 680-221142-9

Matrix: Water

Date Collected: 07/13/22 14:34 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	23300		2000		ug/L		09/16/22 10:41	09/19/22 17:13	1
Potassium	13100		1000		ug/L		09/16/22 10:41	09/19/22 17:13	1
Calcium	158000		500		ug/L		09/16/22 10:41	09/19/22 17:13	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:13	1
Iron	5000		100		ug/L		09/16/22 10:41	09/19/22 17:13	1
Magnesium	28300		500		ug/L		09/16/22 10:41	09/19/22 17:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	290		100	-	ug/L		09/16/22 10:41	09/17/22 17:02	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Arsenic	93.3		3.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Barium	80.0		5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:02	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:02	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:02	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:02	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:02	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:02	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-10

Matrix: Water

Client Sample ID: AF38165

Date Collected: 07/13/22 13:22 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	116000		2000		ug/L		09/16/22 10:41	09/19/22 17:28	1
Potassium	20300		1000		ug/L		09/16/22 10:41	09/19/22 17:28	1
Calcium	460000		500		ug/L		09/16/22 10:41	09/19/22 17:28	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:28	1
Iron	16300		100		ug/L		09/16/22 10:41	09/19/22 17:28	1
Magnesium	66100		500		ug/L		09/16/22 10:41	09/19/22 17:28	1

Wagnesium	00100		300		ug/L		03/10/22 10.41	03/13/22 17.20	4
Method: 6020B - Metals	(ICP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/16/22 10:41	09/17/22 17:33	
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Arsenic	79.5		3.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Barium	206		5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:33	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:33	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:33	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:33	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:33	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:33	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-11

Matrix: Water

Client Sample ID: AF38166

Date Collected: 07/13/22 13:27 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	116000		2000		ug/L		09/16/22 10:41	09/19/22 17:11	1
Potassium	19700		1000		ug/L		09/16/22 10:41	09/19/22 17:11	1
Calcium	450000		500		ug/L		09/16/22 10:41	09/19/22 17:11	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:11	1
Iron	16100		100		ug/L		09/16/22 10:41	09/19/22 17:11	1
Magnesium	65700		500		ug/L		09/16/22 10:41	09/19/22 17:11	1

65/00		500		ug/L		09/16/22 10:41	09/19/22 17:11	1
MS) - Total Recove	erable							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
100	U	100	-	ug/L		09/16/22 10:41	09/17/22 16:59	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
86.2		3.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
216		5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:59	1
0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:59	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:59	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:59	1
5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:59	1
1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:59	1
	MS) - Total Recove  Result  100 5.00 86.2 216 0.500 0.500 5.00 0.500 5.00 2.50 5.00 2.50 1.00	MS) - Total Recoverable    Result   Qualifier	NS   - Total Recoverable   Result   Qualifier   RL     100   U   100     5.00   U   5.00     86.2   3.00     216   5.00   U   0.500     0.500   U   0.500     0.500   U   0.500     5.00   U   0.500     5.00   U   0.500     5.00   U   5.00     2.50   U   2.50     5.00   U   2.50   1.00   U   1.00     1.00   U   1.00     1.00	NS   - Total Recoverable   Result   Qualifier   RL   MDL	No.   Total Recoverable   Result   Qualifier   RL   MDL   Unit   Unit   100   Ug/L   5.00   Ug/L   5.00   Ug/L   6.00   Ug/L	No.   Total Recoverable   Result   Qualifier   RL   MDL   Unit   D	No.   Total Recoverable   Result   Qualifier   RL   MDL   Unit   D   Prepared   09/16/22 10:41   100   U   100   Ug/L   09/16/22 10:41   100   Ug/L   09/16/22 10:41   100   Ug/L   09/16/22 10:41   100   Ug/L   09/16/22 10:41   100   U   000   Ug/L   09/16/22 10:41   100   U   000   Ug/L   09/16/22 10:41   100   U   000   Ug/L   000/16/22 10:41   100   Ug/L   000/16/20   Ug/L   000/16/22 10:41   100   Ug/L   000/16/22 10:41   100	No.   Total Recoverable   Result   Qualifier   RL   MIDL   Unit   D   Prepared   Analyzed

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-12

Matrix: Water

Client Sample ID: AF38167

Date Collected: 07/18/22 11:06 Date Received: 09/15/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	40600		2000		ug/L		09/16/22 10:41	09/19/22 17:21	1
Potassium	2420		1000		ug/L		09/16/22 10:41	09/19/22 17:21	1
Calcium	228000		500		ug/L		09/16/22 10:41	09/19/22 17:21	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:21	1
Iron	10500		100		ug/L		09/16/22 10:41	09/19/22 17:21	1
Magnesium	9820		500		ug/L		09/16/22 10:41	09/19/22 17:21	1

Magnesium	9620		300		ug/L		03/10/22 10.41	03/13/22 17.21	- 1
Method: 6020B - Metals	(ICP/MS) - Total Recove	erable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/16/22 10:41	09/17/22 17:22	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Barium	73.1		5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:22	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:22	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Cobalt	1.49		0.500		ug/L		09/16/22 10:41	09/17/22 17:22	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:22	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:22	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:22	1

9/19/2022

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-740711/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 741147

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 740711

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	2000	U	2000	-	ug/L		09/16/22 10:41	09/19/22 16:48	1
Potassium	1000	U	1000		ug/L		09/16/22 10:41	09/19/22 16:48	1
Calcium	500	U	500		ug/L		09/16/22 10:41	09/19/22 16:48	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 16:48	1
Iron	100	U	100		ug/L		09/16/22 10:41	09/19/22 16:48	1
Magnesium	500	U	500		ug/L		09/16/22 10:41	09/19/22 16:48	1
					177.01				1

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

Prep Batch: 740711

Analysis Batch: 741147 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Sodium 5050 4865 ug/L 96 80 - 120 6970 6814 80 - 120 Potassium ug/L 98 5000 4841 97 80 - 120 Calcium ug/L 100 98.16 98 80 - 120 Molybdenum ug/L 5000 4904 80 - 120 Iron ug/L 98 4833 5010 80 - 120 Magnesium ug/L 96

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 680-740711/2-A

Lab Sample ID: MB 680-740713/1-A

Matrix: Water

Analysis Batch: 740910

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 740713

Analysis Baton. 140010	MB	MB						ricp batem.	1 401 10
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	7.0	ug/L		09/16/22 10:41	09/17/22 16:32	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Barium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:32	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:32	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:32	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:32	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:32	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:32	1

Lab Sample ID: LCS 680-740713/2-A

Matrix: Water

Analysis Batch: 740910

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

Prep Batch: 740713

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	4746	( <del>)</del>	ug/L	27 (772)	95	80 - 120
Antimony	50.0	46.63		ug/L		93	80 - 120
Arsenic	100	93.41		ug/L		93	80 - 120

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# **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Prep Batch: 740713

Client Sample ID: Lab Control Sample

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

101

93

97

94

92

100

Prep Type: Total Recoverable

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample	ID:	LCS	680-740713/2-A

Analysis Batch: 740910

Copper

Lead

Nickel

Selenium

Thallium

Zinc

Matrix: Water

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Barium	100	95.03		ug/L		95	80 - 120	312
Beryllium	50.0	47.40		ug/L		95	80 - 120	
Cadmium	50.0	49.06		ug/L		98	80 - 120	
Chromium	100	90.69		ug/L		91	80 - 120	
Cobalt	50.0	50.25		ug/L		101	80 - 120	

101.2

467.8

95.88

94.54

46.14

99.70

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

100

505

99.0

100

50.0

# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

#### Metals

Prep Batch: 740711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	3005A	
680-221142-2	AF38157	Total Recoverable	Water	3005A	
680-221142-3	AF38158	Total Recoverable	Water	3005A	
680-221142-4	AF38159	Total Recoverable	Water	3005A	
680-221142-5	AF38160	Total Recoverable	Water	3005A	
680-221142-6	AF38161	Total Recoverable	Water	3005A	
680-221142-7	AF38162	Total Recoverable	Water	3005A	
680-221142-8	AF38163	Total Recoverable	Water	3005A	
680-221142-9	AF38164	Total Recoverable	Water	3005A	
680-221142-10	AF38165	Total Recoverable	Water	3005A	
680-221142-11	AF38166	Total Recoverable	Water	3005A	
680-221142-12	AF38167	Total Recoverable	Water	3005A	
MB 680-740711/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-740711/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 740713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	3005A	- 15 V3
680-221142-2	AF38157	Total Recoverable	Water	3005A	
680-221142-3	AF38158	Total Recoverable	Water	3005A	
680-221142-4	AF38159	Total Recoverable	Water	3005A	
680-221142-5	AF38160	Total Recoverable	Water	3005A	
680-221142-6	AF38161	Total Recoverable	Water	3005A	
680-221142-7	AF38162	Total Recoverable	Water	3005A	
680-221142-8	AF38163	Total Recoverable	Water	3005A	
680-221142-9	AF38164	Total Recoverable	Water	3005A	
680-221142-10	AF38165	Total Recoverable	Water	3005A	
680-221142-11	AF38166	Total Recoverable	Water	3005A	
680-221142-12	AF38167	Total Recoverable	Water	3005A	
MB 680-740713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-740713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 740910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	6020B	740713
680-221142-2	AF38157	Total Recoverable	Water	6020B	740713
680-221142-3	AF38158	Total Recoverable	Water	6020B	740713
680-221142-4	AF38159	Total Recoverable	Water	6020B	740713
680-221142-5	AF38160	Total Recoverable	Water	6020B	740713
680-221142-6	AF38161	Total Recoverable	Water	6020B	740713
680-221142-7	AF38162	Total Recoverable	Water	6020B	740713
680-221142-8	AF38163	Total Recoverable	Water	6020B	740713
680-221142-9	AF38164	Total Recoverable	Water	6020B	740713
680-221142-10	AF38165	Total Recoverable	Water	6020B	740713
680-221142-11	AF38166	Total Recoverable	Water	6020B	740713
680-221142-12	AF38167	Total Recoverable	Water	6020B	740713
MB 680-740713/1-A	Method Blank	Total Recoverable	Water	6020B	740713
LCS 680-740713/2-A	Lab Control Sample	Total Recoverable	Water	6020B	740713

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# **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

#### Metals

#### Analysis Batch: 741147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	6010D	740711
680-221142-2	AF38157	Total Recoverable	Water	6010D	740711
680-221142-3	AF38158	Total Recoverable	Water	6010D	740711
680-221142-4	AF38159	Total Recoverable	Water	6010D	740711
680-221142-5	AF38160	Total Recoverable	Water	6010D	740711
680-221142-6	AF38161	Total Recoverable	Water	6010D	740711
680-221142-7	AF38162	Total Recoverable	Water	6010D	740711
680-221142-8	AF38163	Total Recoverable	Water	6010D	740711
680-221142-9	AF38164	Total Recoverable	Water	6010D	740711
680-221142-10	AF38165	Total Recoverable	Water	6010D	740711
680-221142-11	AF38166	Total Recoverable	Water	6010D	740711
680-221142-12	AF38167	Total Recoverable	Water	6010D	740711
MB 680-740711/1-A	Method Blank	Total Recoverable	Water	6010D	740711
LCS 680-740711/2-A	Lab Control Sample	Total Recoverable	\/\/ater	6010D	740711

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Job ID: 680-221142-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38156

Date Collected: 07/06/22 11:37 Date Received: 09/15/22 10:30 Lab Sample ID: 680-221142-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		*-	740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:18
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:18

Client Sample ID: AF38157

Date Collected: 07/06/22 12:51

Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		*	740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:16
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:06

Client Sample ID: AF38158

Date Collected: 07/18/22 12:01

Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-3

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:23
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:25

Client Sample ID: AF38159

Date Collected: 07/18/22 15:22

Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-4

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	14. E-		740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:31
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:37

Client Sample ID: AF38160

Date Collected: 07/14/22 13:54

Date Received: 09/15/22 10:30

Lab Sam	ple ID:	680-221	142-5
mande of the country	0101		

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:01
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 16:51

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Job ID: 680-221142-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38161

Lab Sample ID: 680-221142-6 Date Collected: 07/11/22 12:55

Matrix: Water

Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	——————————————————————————————————————		740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:38
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:41

Client Sample ID: AF38162

Lab Sample ID: 680-221142-7

Matrix: Water

Date Collected: 07/13/22 10:00 Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:26
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:29

Client Sample ID: AF38163

Lab Sample ID: 680-221142-8

Matrix: Water

Date Collected: 07/12/22 11:53 Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:08
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 16:55

Client Sample ID: AF38164

Lab Sample ID: 680-221142-9

Date Collected: 07/13/22 14:34 Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	ВСВ	EET SAV	09/19/22 17:13

Total Recoverable Prep 3005A 740713 RR EET SAV 09/16/22 10:41 6020B 740910 BWR EET SAV 09/17/22 17:02 Total Recoverable Analysis

Client Sample ID: AF38165

Lab Sample ID: 680-221142-10

Matrix: Water

Matrix: Water

Date Collected: 07/13/22 13:22 Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:28
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		ì	740910	BWR	EET SAV	09/17/22 17:33

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID: 680-221142-11 Client Sample ID: AF38166 Date Collected: 07/13/22 13:27

Matrix: Water

Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:11
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 16:59

Client Sample ID: AF38167

Lab Sample ID: 680-221142-12

Matrix: Water

Date Collected: 07/18/22 11:06 Date Received: 09/15/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		*	740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:21
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:22

Laboratory References:

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

9/19/2022





Santee Cooper One Riverwood Drive Joneks Corner, SC 29461 (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. 601.3/ 36500 LCWILLIA (Yes) No @santeecooper.com **Analysis Group** Comments Labworks ID# Sample Location/ THAT METALS Matrix(see below) Collection Date **Collection Time** (Internal use (Glass-Preservative (see below) Description Method # Collecto of contair only) Grab (G) or Composite (C) . Reporting limit Bottle type: ( G/Plastic-P) Misc. sample info • Any other notes DEW 7/6 2 X ١ P G GW WAP - 1 1137 USE APPROPRIATE AF38156 BM METHOD TO MEET RLS. 7/6 2 1251 57 -SEE SHEET FOR RLS. 1/18 3 1201 58 7/18 59 4 1522 7/14 5 PLEASE RETURN SAMPLE. 1354 60 UPON COMPLETION . 7/11 1255 61 6 7/13 62 7 1000 7/12 63 8 1153 7/13 1434 9 64 1322 7/13 10 65 Sample Receiving (Internal Use Only) Received by: Employee# Date Time Relinquished by: Employee# Date Time TEMP (°C):\_ Initial: 9115 an 1500 10-21 8912 roun 9/14/22 35594 Correct pH: Yes Relinquished by: Employee# Date Time Received by: Employee# Date Time Preservative Lot#: Received by: Date Time Relinquished by: Employee# Date Time Employee# Date/Time/Init for preservative: ☐ METALS (all ) MISC. **Gypsum Nutrients** Coal Oil <u>Flyash</u> ⊅Ĉu ☑ Sb □ Ag Trans. Oil Qual. □ Wallboard ⊕ TOC BTEX ☐ Ultimate ☐ Ammonia ☑ Fe D∕Se ☐ Napthalene Gypsum(all %Moisture DOC ☐ % Moisture O LOI □ THM/HAA Calor ☑ As ØK □ Sn below) □ TP/TPO4 □ Ash □ % Carbon D AIM □ VOC □ NH3-N ☐ Sulfur O Mineral  $\Box$  B ПLi □ Sr Dielectric Strength ☐ Oil & Grease OF □ BTUs Analysis IFT. □ E. Coli □ Total metals D∕Ba Ø Mg □ Ti  $\Box$  C1 ☐ Volatile Matter □ Sieve Dissolved Gases ☐ Total Coliform □ Soluble Metals Ø Be □ Mn D/TI □ NO2 D CHN □ % Moisture Used Oil □pH ☐ Purity (CaSO4) Flashpoint Metals in oil Вг ☐ Dissolved As Other Tests: □ % Moisture Ø Mo DV ∕Ó Ca ☐ XRF Scan ☐ Dissolved Fe □ NO3 □ Sulfites NPDES (As,Cd,Cr,Ni,Pb Ø Cd ØNa Ø Zn □ Rad 226 O HGI □pH SO4 Oil & Grease Hg) □ Rad 228 ☐ Chlorides ☐ Fineness Z Co Ø Nı □ Hg DAs ☐ Particulate Matter DITSS GOFER Ø Cr ₽Pb □ CrVI 19.8 19.7

680-221142 Chain of Custody

5

# **Chain of Custody**



santee cooper

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

**Date Results Needed by:** Project/Task/Unit #: Rerun request for any flagged QC **Customer Email/Report Recipient:** 125915 / JM02.08. GOI.3/ 36500 LCWILLIA (Yes) No @santeecooper.com **Analysis Group** METALS Comments Labworks ID # Sample Location/ Matrix(see below) Date **Collection Time** Method# (Internal use Description mple Collector Bottle type: (Glas G/Plastic-P) Preservative ( below) Reporting limit only) Total # of conta Grab (G) or Composite (C) ction Misc. sample info TOTAL ら居石 Any other notes Colle DEW EITHER G 2 X 7/13 P GW USE METHOD TO MEET 1327 AF38166 WAP- 10 DUP BM FEE REQUESTED RLS X 7/18 P 2 6 1106 WAP -11 67 SEE SHEET FOR RLS. PLEASE RETURN SAMPLE UPON COMPLETION Sample Receiving (Internal Use Only) Time Received by: Employee # Date Time Relinquished by: Employee# Date TEMP (°C): Initial: 9/15 10:20 89moun 35594 9/14/22 1500 Correct pH: Yes No Received by: Employee# Date Time Relinquished by: Employee# Date Time Preservative Lot#: Relinguished by: Employee# Date Time Received by: Employee# Date Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. Gypsum Coal Oil Flyash ☑ Cu | ☑ Sb □ Ag E TOC □ BTEX ☐ Wallboard □ Ultimate Trans. Oil Qual. □ Ammonia Ø Se D'AI □ Fe ≤ %Moisture □ Napthalene Gypsum(a/l □ DOC ☐ % Moisture OTHM/HAA Color ☑ As D′K □ Sn below) □ TP/TPO4 □ Ash □ % Carbon Acidity DVOC □ AIM □ NH3-N ☐ Sulfur ☐ Mineral  $\Box$  B □ Li □ Sr Dielectric Strength ☐ Oil & Grease DTOC □ BTUs Analysis // P WI □ E. Coli [] Total metals □/Ba ØMg O Ti O CI ☐ Total Coliform ☐ Volatile Matter □ Sieve Dissolved Gases ☐ Soluble Metals ØTI □ NO2 □ CHN ☐ % Moisture Used Oil Ø Be □ Mn □рН □ Purity (CaSO4) Other Tests: ☐ Dissolved As Flashpoint □ Br □ % Moisture  $\square V$ ☑ Ca Ø Mo Metals in oil (As Cd.Ct.Ni,Pb □ Dissolved Fe ☐ Sulfites ☐ XRF Scan □ NO3 **NPDES** ☑ Na Z Zn ☐ Rad 226 □ HGI D/Cd Hari SO4 ☐ Oil & Grease Hg) ☐ Rad 228 ☐ Fineness ☐ Chlorides □Hg ØNi □ As Ø∕Co ☐ Particulate Matter TX □ PCB ☐ Particle Size D TSS GOFER Ø Pb □ CrVI D Sulfur Ø Cr

#### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-221142-1

Login Number: 221142 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 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.	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.G01.3/36500

Job ID: 680-221142-1

#### **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	06-30-22 *

4

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8

411

LIE

13

14

 $<sup>^{*}</sup>$  Accreditation/Certification renewal pending - accreditation/certification considered valid.





## Laboratory Services

### **Laboratory Report**

Client Santee Cooper

Linda Williams 1 Riverwood Dr.

Moncks Corner, SC 29461

Project: Work Order:

Received:

Ground Water 22H1276

08/24/2022 09:40

#### Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on August 24, 2022. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Elisabeth Noblet, your Project Manager, at enoblet@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Elisabeth Noblet

Elisabeth Noblet

Project Manager





### **Certificate of Analysis**

Client Santee Cooper

Linda Williams 1 Riverwood Dr.

Moncks Corner, SC 29461

South Carolina Greenville Laboratory Identification 23105 South Carolina Columbia Laboratory Identification 40572 North Carolina Laboratory Certification Number 27 North Carolina Drinking Water Lab Number 45710 NELAP Utah Certificate Number SC000042014-1 Georgia Drinking Water Lab ID 880

**Project:** Ground Water **Work Order:** 22H1276

**Received:** 08/24/2022 09:40

Sample Number	Sample Description	Matrix	Sampled	Type
22H1276-01	AF38157 WAP-2	Ground Water	07/06/22 12:51	Grab
22H1276-02	AF38161 WAP-6	Ground Water	07/11/22 12:55	Grab
22H1276-03	AF38163 WAP-8	Ground Water	07/12/22 11:53	Grab
22H1276-04	AF38165 WAP-10	Ground Water	07/13/22 13:22	Grab
22H1276-05	AF38166 WAP-10 DUP	Ground Water	07/13/22 13:27	Grab
22H1276-06	AF38164 WAP-9	Ground Water	07/13/22 14:34	Grab
22H1276-07	AF38160 WAP-5	Ground Water	07/14/22 13:54	Grab
22H1276-08	AF38167 WAP-11	Ground Water	07/18/22 11:06	Grab
22H1276-09	AF38158 WAP-3	Ground Water	07/18/22 12:01	Grab
22H1276-10	AF38159 WAP-4	Ground Water	07/18/22 15:22	Grab
22H1276-11	AF38190 WBW-1	Ground Water	07/06/22 10:23	Grab
22H1276-12	AF38156 WAP-1	Ground Water	07/06/22 11:37	Grab
22H1276-13	AF38168 WAP-12	Ground Water	07/06/22 14:06	Grab
22H1276-14	AF38169 WAP-12 DUP	Ground Water	07/06/22 14:11	Grab
22H1276-15	AF38184 WAP-22	Ground Water	07/07/22 13:44	Grab
22H1276-16	AF38187 WAP-25	Ground Water	07/11/22 10:30	Grab
22H1276-17	AF38188 WAP-26	Ground Water	07/11/22 11:44	Grab
22H1276-18	AF38189 WAP-26 DUP	Ground Water	07/11/22 11:46	Grab
22H1276-19	AF38162 WAP-7	Ground Water	07/13/22 10:00	Grab
22H1276-20	AF38185 WAP-23	Ground Water	07/13/22 12:25	Grab
22H1276-21	AF38186 WAP-24	Ground Water	07/13/22 15:31	Grab
22H1276-22	AF38183 WAP-21	Ground Water	07/14/22 10:45	Grab
22H1276-23	AF38177 WAP-16	Ground Water	07/14/22 12:48	Grab
22H1276-24	AF38170 WAP-13	Ground Water	07/18/22 13:12	Grab
22H1276-25	AF38176 WAP-15	Ground Water	07/18/22 14:30	Grab
22H1276-26	AF38171 WAP-14	Ground Water	07/20/22 14:12	Grab
22H1276-27	AF38172 WAP-14 DUP	Ground Water	07/20/22 14:17	Grab

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 | rogersandcallcott.com

an employee-owned company



Sample Number	Sample Description	Matrix	Sampled	Type
22H1276-28	AF38173 WAP-14A	Ground Water	07/20/22 11:00	Grab
22Н1276-29	AF38174 WAP-14B	Ground Water	07/20/22 12:20	Grab
22H1276-30	AF38175 WAP-14C	Ground Water	07/20/22 13:17	Grab
22Н1276-31	AF38182 WAP-20	Ground Water	07/28/22 11:00	Grab
22Н1276-32	AF38199 WLF-A2-2	Ground Water	07/17/22 11:37	Grab
22Н1276-33	AF38198 WLF-A2-1	Ground Water	07/17/22 12:37	Grab
22Н1276-34	AF38180 WAP-18	Ground Water	07/17/22 14:43	Grab
22Н1276-35	AF38193 WLF-A1-2	Ground Water	07/11/22 13:38	Grab
22Н1276-36	AF38194 WLF-A1-3	Ground Water	07/11/22 14:41	Grab
22Н1276-37	AF38195 WLF-A1-4	Ground Water	07/11/22 15:35	Grab
22Н1276-38	AF38196 WLF-A1-4DUP	Ground Water	07/11/22 15:40	Grab
22Н1276-39	AF38191 WBW-A1-1	Ground Water	07/12/22 10:44	Grab
22H1276-40	AF38197 WLF-A1-5	Ground Water	07/12/22 13:58	Grab
22Н1276-41	AF38192 WLF-A1-1	Ground Water	07/12/22 14:55	Grab
22Н1276-42	AF38178 WAP-17	Ground Water	07/12/22 12:35	Grab
22H1276-43	AF38179 WAP-17 DUP	Ground Water	07/12/22 12:40	Grab
22Н1276-44	AF38181 WAP-19	Ground Water	07/13/22 11:08	Grab
22H1276-45	AF38200 WLF-A2-6	Ground Water	07/14/22 11:50	Grab



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22 12:28

#### **Case Narrative**

#### **Partial Report**

Please note this report does not include results for metals run by method 6020: As, Be, Co, Cr, Sb, Se, and Tl on all samples except AF38178,79,81,92, and 200, which have results reported for As, Sb, Se and Tl.



#### Sample Data

Sample Number

22H1276-01

Sample Description AF38157 WAP-2 collected on 07/06/22 12:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.27	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Boron	6900	75	ug/L	5.00	08/26/22 10:50	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Calcium	400	25	mg/L	500	08/26/22 10:43	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.010	0.005	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Iron	30	2.5	mg/L	50.0	08/26/22 10:46	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Lithium	16	10	ug/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	58	2.5	mg/L	50.0	08/26/22 10:46	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G
Potassium	9.5	0.50	mg/L	5.00	08/26/22 10:50	EPA 6010D		KTH	B2H2183	RC-G
Sodium	110	5.0	mg/L	50.0	08/26/22 10:46	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 10:53	EPA 6010D		KTH	B2H2183	RC-G



Sample Number 22H1276-02

Sample Description AF38161 WAP-6 collected on 07/11/22 12:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.29	0.050	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.021	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Boron	44	15	ug/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Calcium	12	0.25	mg/L	5.00	08/26/22 11:27	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Iron	1.4	0.050	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	0.89	0.050	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Potassium	0.27	0.10	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Sodium	3.6	0.10	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 11:30	EPA 6010D		KTH	B2H2183	RC-G

Sample Number Sample Description 22H1276-03

Sample Description AF38163 WAP-8 collected on 07/12/22 11:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.21	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Boron	8200	75	ug/L	5.00	08/26/22 11:44	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Calcium	530	25	mg/L	500	08/26/22 11:37	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.012	0.005	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Iron	5.6	0.25	mg/L	5.00	08/26/22 11:44	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Lithium	470	10	ug/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	89	2.5	mg/L	50.0	08/26/22 11:40	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	38	10	ug/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G
Potassium	27	5.0	mg/L	50.0	08/26/22 11:40	EPA 6010D		KTH	B2H2183	RC-G
Sodium	120	5.0	mg/L	50.0	08/26/22 11:40	EPA 6010D		KTH	B2H2183	RC-G
Zinc	0.012	0.010	mg/L	1.00	08/26/22 11:48	EPA 6010D		KTH	B2H2183	RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22 12:28

Sample Number 22H1276-04

Sample Description AF38165 WAP-10 collected on 07/13/22 13:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.21	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Boron	8300	75	ug/L	5.00	08/26/22 09:05	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Calcium	560	25	mg/L	500	08/26/22 08:45	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.011	0.005	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Iron	18	0.25	mg/L	5.00	08/26/22 09:05	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Lithium	26	10	ug/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	78	2.5	mg/L	50.0	08/26/22 08:55	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G
Potassium	24	0.50	mg/L	5.00	08/26/22 09:05	EPA 6010D		KTH	B2H2183	RC-G
Sodium	130	5.0	mg/L	50.0	08/26/22 08:55	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 09:16	EPA 6010D		KTH	B2H2183	RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22
 12:28

Sample Number 22H1276-05

Sample Description AF38166 WAP-10 DUP collected on 07/13/22 13:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.21	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Boron	8100	75	ug/L	5.00	08/26/22 09:58	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Calcium	490	50	mg/L	1,000	08/26/22 17:32	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.023	0.005	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Iron	17	0.25	mg/L	5.00	08/26/22 09:58	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Lithium	26	10	ug/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	71	2.5	mg/L	50.0	08/26/22 09:47	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Potassium	23	0.50	mg/L	5.00	08/26/22 09:58	EPA 6010D		KTH	B2H2183	RC-G
Sodium	110	5.0	mg/L	50.0	08/26/22 09:47	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 10:22	EPA 6010D		KTH	B2H2183	RC-G
Rebatch Sample Number: 22H1276-05RF	E <b>1</b>									
Lithium	28	10	ug/L	1.00	09/01/22 12:55	EPA 6010D		KTH	B2H2214	RC-G



Sample Number 22H1276-06

Sample Description AF38164 WAP-9 collected on 07/13/22 14:34

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.28	0.050	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.068	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Boron	3500	15	ug/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Calcium	160	2.5	mg/L	50.0	08/26/22 12:08	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Iron	5.3	0.25	mg/L	5.00	08/26/22 12:12	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Lithium	42	10	ug/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	29	2.5	mg/L	50.0	08/26/22 12:08	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G
Potassium	15	0.50	mg/L	5.00	08/26/22 12:12	EPA 6010D		KTH	B2H2183	RC-G
Sodium	22	5.0	mg/L	50.0	08/26/22 12:08	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 12:15	EPA 6010D		KTH	B2H2183	RC-G

Sample Number
Sample Description

22H1276-07

Sample Description AF38160 WAP-5 collected on 07/14/22 13:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Barium	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Boron	90	15	ug/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Calcium	62	2.5	mg/L	50.0	08/26/22 12:25	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.090	0.050	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	4.9	0.25	mg/L	5.00	08/26/22 12:29	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G
Potassium	6.3	0.50	mg/L	5.00	08/26/22 12:29	EPA 6010D		KTH	B2H2183	RC-G
Sodium	28	5.0	mg/L	50.0	08/26/22 12:25	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 12:32	EPA 6010D		KTH	B2H2183	RC-G



Sample Number 22H1276-08

Sample Description AF38167 WAP-11 collected on 07/18/22 11:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.083	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Boron	1800	15	ug/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Calcium	230	2.5	mg/L	50.0	08/26/22 12:53	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Iron	11	0.25	mg/L	5.00	08/26/22 12:56	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Lithium	13	10	ug/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	10	0.25	mg/L	5.00	08/26/22 12:56	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Potassium	3.1	0.10	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G
Sodium	39	5.0	mg/L	50.0	08/26/22 12:53	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 13:00	EPA 6010D		KTH	B2H2183	RC-G

Sample Number Sample Description 22H1276-09

Sample Description AF38158 WAP-3 collected on 07/18/22 12:01

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.083	0.050	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.16	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Boron	1300	15	ug/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Calcium	210	2.5	mg/L	50.0	08/26/22 13:10	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Iron	20	0.25	mg/L	5.00	08/26/22 13:13	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Lithium	13	10	ug/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	12	0.25	mg/L	5.00	08/26/22 13:13	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.7	0.10	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G
Sodium	44	5.0	mg/L	50.0	08/26/22 13:10	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 13:17	EPA 6010D		KTH	B2H2183	RC-G



Sample Number 22H1276-10

Sample Description AF38159 WAP-4 collected on 07/18/22 15:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.087	0.050	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.037	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Boron	120	15	ug/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Calcium	52	2.5	mg/L	50.0	08/26/22 13:37	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Iron	1.2	0.050	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	4.1	0.050	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.4	0.10	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G
Sodium	14	0.50	mg/L	5.00	08/26/22 13:40	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 13:44	EPA 6010D		KTH	B2H2183	RC-G

Sample Number Sample Description 22H1276-11

AF38190 WBW-1 collected on 07/06/22 10:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.95	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.044	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Boron	58	15	ug/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Calcium	2.7	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.36	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	0.93	0.050	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Potassium	0.42	0.10	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Sodium	2.6	0.10	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 14:01	EPA 6010D		KTH	B2H2183	RC-G



Sample Number 22H1276-12

Sample Description AF38156 WAP-1 collected on 07/06/22 11:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	1.2	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.068	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Boron	26	15	ug/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Calcium	2.9	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Iron	4.1	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	1.2	0.050	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Potassium	0.79	0.10	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Sodium	4.2	0.10	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 14:28	EPA 6010D		KTH	B2H2183	RC-G

Sample Number Sample Description 22H1276-13

eription AF38168 WAP-12 collected on 07/06/22 14:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	2.3	0.050	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.019	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Boron	2000	15	ug/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Calcium	130	2.5	mg/L	50.0	08/26/22 14:38	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Iron	2.6	0.050	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	18	0.25	mg/L	5.00	08/26/22 14:41	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G
Potassium	6.8	0.50	mg/L	5.00	08/26/22 14:41	EPA 6010D		KTH	B2H2183	RC-G
Sodium	32	5.0	mg/L	50.0	08/26/22 14:38	EPA 6010D		KTH	B2H2183	RC-G
Zine	0.018	0.010	mg/L	1.00	08/26/22 14:45	EPA 6010D		KTH	B2H2183	RC-G



Ground Water Santee Cooper Project: 1 Riverwood Dr. Work Order: 22H1276 Moncks Corner, SC 29461 09/16/22 12:28 Reported:

Sample Number 22H1276-14

**Sample Description** AF38169 WAP-12 DUP collected on 07/06/22 14:11

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	2.4	0.050	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.020	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Boron	2100	15	ug/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Calcium	130	2.5	mg/L	50.0	08/26/22 15:05	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Iron	2.6	0.050	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	19	0.25	mg/L	5.00	08/26/22 15:08	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G
Potassium	7.2	0.50	mg/L	5.00	08/26/22 15:08	EPA 6010D		KTH	B2H2183	RC-G
Sodium	30	5.0	mg/L	50.0	08/26/22 15:05	EPA 6010D		KTH	B2H2183	RC-G
Zine	0.019	0.010	mg/L	1.00	08/26/22 15:12	EPA 6010D		KTH	B2H2183	RC-G

Sample Number **Sample Description**  22H1276-15

AF38184 WAP-22 collected on 07/07/22 13:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.081	0.050	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.25	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Boron	6400	75	ug/L	5.00	08/26/22 15:26	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Calcium	460	25	mg/L	500	08/26/22 15:19	EPA 6010D		KTH	B2H2183	RC-G
Copper	0.012	0.005	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Iron	41	2.5	mg/L	50.0	08/26/22 15:22	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Lithium	95	10	ug/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	71	2.5	mg/L	50.0	08/26/22 15:22	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G
Potassium	30	0.50	mg/L	5.00	08/26/22 15:26	EPA 6010D		KTH	B2H2183	RC-G
Sodium	130	5.0	mg/L	50.0	08/26/22 15:22	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 15:29	EPA 6010D		KTH	B2H2183	RC-G



Ground Water Santee Cooper Project: 1 Riverwood Dr. Work Order: 22H1276 Moncks Corner, SC 29461 09/16/22 12:28 Reported:

22H1276-16 Sample Number

**Sample Description** AF38187 WAP-25 collected on 07/11/22 10:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Barium	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Boron	21	15	ug/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Calcium	64	2.5	mg/L	50.0	08/26/22 15:50	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Iron	3.2	0.050	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	2.2	0.050	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.4	0.10	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G
Sodium	9.7	0.50	mg/L	5.00	08/26/22 15:53	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 15:56	EPA 6010D		KTH	B2H2183	RC-G

Sample Number

22H1276-17

AF38188 WAP-26 collected on 07/11/22 11:44 **Sample Description** 

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.15	0.050	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.042	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Boron	24	15	ug/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Calcium	20	0.25	mg/L	5.00	08/26/22 16:10	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.56	0.050	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Potassium	1.2	0.10	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Sodium	3.6	0.10	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 16:13	EPA 6010D		KTH	B2H2183	RC-G



Sample Number 22H1276-18

Sample Description AF38189 WAP-26 DUP collected on 07/11/22 11:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.15	0.050	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.041	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Boron	23	15	ug/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Calcium	19	0.25	mg/L	5.00	08/26/22 16:37	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.55	0.050	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Potassium	1.1	0.10	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Sodium	3.5	0.10	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G
Zine	ND	0.010	mg/L	1.00	08/26/22 16:40	EPA 6010D		KTH	B2H2183	RC-G

Sample Number Sample Description 22H1276-19

AF38162 WAP-7 collected on 07/13/22 10:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.12	0.050	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.039	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Boron	4000	15	ug/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Calcium	870	25	mg/L	500	08/26/22 16:47	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Iron	0.43	0.050	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Lithium	ND	10	ug/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	16	0.25	mg/L	5.00	08/26/22 16:54	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G
Sodium	15	0.50	mg/L	5.00	08/26/22 16:54	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 16:58	EPA 6010D		KTH	B2H2183	RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22
 12:28

Sample Number 22H1276-20

Sample Description AF38185 WAP-23 collected on 07/13/22 12:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Barium	0.12	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Boron	1300	15	ug/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Calcium	240	2.5	mg/L	50.0	08/26/22 17:18	EPA 6010D		KTH	B2H2183	RC-G
Copper	ND	0.005	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Iron	8.5	0.25	mg/L	5.00	08/26/22 17:21	EPA 6010D		KTH	B2H2183	RC-G
Lead	ND	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Lithium	18	10	ug/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Magnesium	12	0.25	mg/L	5.00	08/26/22 17:21	EPA 6010D		KTH	B2H2183	RC-G
Molybdenum	ND	10	ug/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Nickel	ND	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Potassium	2.8	0.10	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G
Sodium	42	5.0	mg/L	50.0	08/26/22 17:18	EPA 6010D		KTH	B2H2183	RC-G
Zinc	ND	0.010	mg/L	1.00	08/26/22 17:25	EPA 6010D		KTH	B2H2183	RC-G



Sample Number 22H1276-21

Sample Description AF38186 WAP-24 collected on 07/13/22 15:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.052	0.050	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Barium	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Boron	300	15	ug/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Calcium	120	2.5	mg/L	50.0	09/01/22 18:33	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Iron	0.20	0.050	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	8.5	0.25	mg/L	5.00	08/30/22 11:27	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/30/22 11:37	EPA 6010D	S1	KTH	B2H2259	RC-G
Sodium	28	5.0	mg/L	50.0	08/30/22 11:17	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 11:37	EPA 6010D		KTH	B2H2259	RC-G
Rebatch Sample Number: 22H1276-21RE	1									
Potassium	5.4	0.10	mg/L	1.00	09/01/22 13:16	EPA 6010D	<b>S</b> 1	KTH	B2H2214	RC-G



Santee Cooper Ground Water Project: 1 Riverwood Dr. Work Order: 22H1276 Moncks Corner, SC 29461 09/16/22 12:28 Reported:

22H1276-22 Sample Number

**Sample Description** AF38183 WAP-21 collected on 07/14/22 10:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.91	0.050	mg/L	1.00	08/30/22 12:42	EPA 6010D	S1	KTH	B2H2259	RC-G
Barium	0.031	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Boron	2500	15	ug/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Calcium	90	2.5	mg/L	50.0	09/01/22 18:46	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Iron	0.83	0.050	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	13	0.25	mg/L	5.00	08/30/22 12:18	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Potassium	10	0.50	mg/L	5.00	08/30/22 12:18	EPA 6010D		KTH	B2H2259	RC-G
Sodium	16	0.50	mg/L	5.00	08/30/22 12:18	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 12:42	EPA 6010D		KTH	B2H2259	RC-G
Rebatch Sample Number: 22H1276-22RE1										
Aluminum	0.72	0.050	mg/L	1.00	09/01/22 13:50	EPA 6010D	S1	KTH	B2H2214	RC-G



Sample Number 22H1276-23

Sample Description AF38177 WAP-16 collected on 07/14/22 12:48

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.19	0.050	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.069	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Boron	1500	15	ug/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Calcium	190	5.0	mg/L	100	09/01/22 18:50	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Iron	7.2	0.25	mg/L	5.00	08/30/22 13:09	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	19	0.25	mg/L	5.00	08/30/22 13:09	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G
Potassium	14	0.10	mg/L	1.00	09/01/22 15:50	EPA 6010D		KTH	B2H2259	RC-G
Sodium	130	5.0	mg/L	50.0	08/30/22 13:06	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 13:13	EPA 6010D		KTH	B2H2259	RC-G

Sample Number

22H1276-24

Sample Description AF38170 WAP-13 collected on 07/18/22 13:12

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.27	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Boron	3900	15	ug/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Calcium	430	25	mg/L	500	09/01/22 18:53	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Iron	62	2.5	mg/L	50.0	08/30/22 13:43	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	31	2.5	mg/L	50.0	08/30/22 13:43	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G
Potassium	3.7	0.10	mg/L	1.00	09/01/22 15:53	EPA 6010D		KTH	B2H2259	RC-G
Sodium	120	5.0	mg/L	50.0	08/30/22 13:43	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 13:50	EPA 6010D		KTH	B2H2259	RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22 12:28

Sample Number 22H1276-25

Sample Description AF38176 WAP-15 collected on 07/18/22 14:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.16	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Boron	500	15	ug/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Calcium	53	2.5	mg/L	50.0	09/01/22 17:26	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Iron	13	0.25	mg/L	5.00	08/30/22 14:04	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Lithium	19	10	ug/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	8.7	0.25	mg/L	5.00	08/30/22 14:04	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G
Potassium	3.2	0.10	mg/L	1.00	09/01/22 15:57	EPA 6010D		KTH	B2H2259	RC-G
Sodium	18	0.50	mg/L	5.00	08/30/22 14:04	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 14:07	EPA 6010D		KTH	B2H2259	RC-G

Sample Number Sample Description 22H1276-26

AF38171 WAP-14 collected on 07/20/22 14:12

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Aluminum	0.080	0.050	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.049	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Boron	8400	75	ug/L	5.00	08/30/22 14:31	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Calcium	990	25	mg/L	500	09/06/22 13:53	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Iron	ND	0.050	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	31	2.5	mg/L	50.0	08/30/22 14:27	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G
Potassium	23	0.10	mg/L	1.00	09/01/22 16:00	EPA 6010D		KTH	B2H2259	RC-G
Sodium	120	5.0	mg/L	50.0	08/30/22 14:27	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 14:35	EPA 6010D		KTH	B2H2259	RC-G



Ground Water Santee Cooper Project: 1 Riverwood Dr. Work Order: 22H1276 Moncks Corner, SC 29461 09/16/22 12:28 Reported:

Sample Number 22H1276-27

**Sample Description** AF38172 WAP-14 DUP collected on 07/20/22 14:17

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.074	0.050	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.049	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Boron	8500	75	ug/L	5.00	08/30/22 14:48	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Calcium	890	25	mg/L	500	09/01/22 18:56	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.008	0.005	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Iron	ND	0.050	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	35	2.5	mg/L	50.0	08/30/22 14:45	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G
Potassium	22	0.10	mg/L	1.00	09/01/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Sodium	140	5.0	mg/L	50.0	08/30/22 14:45	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 14:52	EPA 6010D		KTH	B2H2259	RC-G

Sample Number

22H1276-28

AF38173 WAP-14A collected on 07/20/22 11:00 **Sample Description** 

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.061	0.050	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.089	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Boron	6200	75	ug/L	5.00	08/30/22 15:16	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Calcium	930	25	mg/L	500	09/01/22 19:00	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.007	0.005	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Iron	ND	0.050	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Lithium	38	10	ug/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	49	2.5	mg/L	50.0	08/30/22 15:12	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G
Potassium	19	0.10	mg/L	1.00	09/01/22 16:08	EPA 6010D		KTH	B2H2259	RC-G
Sodium	130	5.0	mg/L	50.0	08/30/22 15:12	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 15:19	EPA 6010D		KTH	B2H2259	RC-G



Sample Number 22H1276-29

Sample Description AF38174 WAP-14B collected on 07/20/22 12:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.055	0.050	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.15	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Boron	6400	75	ug/L	5.00	08/30/22 15:33	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Calcium	750	25	mg/L	500	09/01/22 19:03	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.006	0.005	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Iron	13	0.25	mg/L	5.00	08/30/22 15:33	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Lithium	11	10	ug/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	31	2.5	mg/L	50.0	08/30/22 15:29	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G
Potassium	9.3	0.10	mg/L	1.00	09/01/22 16:11	EPA 6010D		KTH	B2H2259	RC-G
Sodium	99	5.0	mg/L	50.0	08/30/22 15:29	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 15:36	EPA 6010D		KTH	B2H2259	RC-G

Sample Number

22H1276-30

Sample Description AF38175 WAP-14C collected on 07/20/22 13:17

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.080	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Boron	160	15	ug/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Calcium	160	5.0	mg/L	100	09/01/22 19:07	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Iron	6.7	0.25	mg/L	5.00	08/30/22 16:00	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Lithium	12	10	ug/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	8.6	0.25	mg/L	5.00	08/30/22 16:00	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G
Potassium	6.4	0.10	mg/L	1.00	09/01/22 16:18	EPA 6010D		KTH	B2H2259	RC-G
Sodium	71	5.0	mg/L	50.0	08/30/22 15:57	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 16:04	EPA 6010D		KTH	B2H2259	RC-G



Sample Number 22H1276-31

Sample Description AF38182 WAP-20 collected on 07/28/22 11:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	51	2.5	mg/L	50.0	08/30/22 16:14	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.090	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Boron	1300	15	ug/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Calcium	34	2.5	mg/L	50.0	09/01/22 19:10	EPA 6010D		KTH	B2H2424	RC-G
Copper	0.011	0.005	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Iron	84	2.5	mg/L	50.0	08/30/22 16:14	EPA 6010D		KTH	B2H2259	RC-G
Lead	0.050	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Lithium	210	10	ug/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	12	0.25	mg/L	5.00	08/30/22 16:17	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	84	10	ug/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Nickel	0.018	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G
Potassium	5.6	0.10	mg/L	1.00	09/01/22 16:32	EPA 6010D		KTH	B2H2259	RC-G
Sodium	33	5.0	mg/L	50.0	08/30/22 16:14	EPA 6010D		KTH	B2H2259	RC-G
Zine	0.040	0.010	mg/L	1.00	08/30/22 16:21	EPA 6010D		KTH	B2H2259	RC-G

Sample Number 22H1276-32

Sample Description AF38199 WLF-A2-2 collected on 07/17/22 11:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.086	0.050	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.055	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Boron	1800	15	ug/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Calcium	130	2.5	mg/L	50.0	09/01/22 19:17	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.2	0.050	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Lithium	100	10	ug/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	4.1	0.050	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G
Potassium	4.7	0.10	mg/L	1.00	09/01/22 16:35	EPA 6010D		KTH	B2H2259	RC-G
Sodium	11	0.50	mg/L	5.00	08/30/22 16:45	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 16:48	EPA 6010D		KTH	B2H2259	RC-G



Sample Number 22H1276-33

Sample Description AF38198 WLF-A2-1 collected on 07/17/22 12:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.44	0.050	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.079	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Boron	1600	15	ug/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Calcium	99	2.5	mg/L	50.0	09/01/22 19:30	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Iron	1.6	0.050	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Lithium	41	10	ug/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	7.8	0.25	mg/L	5.00	08/30/22 17:02	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G
Potassium	6.0	0.10	mg/L	1.00	09/01/22 16:39	EPA 6010D		KTH	B2H2259	RC-G
Sodium	22	0.50	mg/L	5.00	08/30/22 17:02	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 17:05	EPA 6010D		KTH	B2H2259	RC-G

Sample Number Sample Description 22H1276-34

AF38180 WAP-18 collected on 07/17/22 14:43

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.24	0.050	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.076	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Boron	1700	15	ug/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Calcium	76	2.5	mg/L	50.0	09/01/22 19:34	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Iron	1.2	0.050	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Lithium	50	10	ug/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	5.8	0.25	mg/L	5.00	08/30/22 17:29	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	190	10	ug/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G
Potassium	7.6	0.10	mg/L	1.00	09/01/22 16:42	EPA 6010D		KTH	B2H2259	RC-G
Sodium	38	5.0	mg/L	50.0	08/30/22 17:25	EPA 6010D		KTH	B2H2259	RC-G
Zinc	0.015	0.010	mg/L	1.00	08/30/22 17:32	EPA 6010D		KTH	B2H2259	RC-G



Sample Number 22H1276-35

Sample Description AF38193 WLF-A1-2 collected on 07/11/22 13:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	2.0	0.050	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.049	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Boron	110	15	ug/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Calcium	32	2.5	mg/L	50.0	09/01/22 19:37	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.2	0.050	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	0.74	0.050	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Potassium	0.49	0.10	mg/L	1.00	09/01/22 16:46	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.1	0.10	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 17:49	EPA 6010D		KTH	B2H2259	RC-G

Sample Number Sample Description 22H1276-36

AF38194 WLF-A1-3 collected on 07/11/22 14:41

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	3.1	0.050	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.036	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Boron	260	15	ug/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Calcium	18	0.50	mg/L	10.0	09/01/22 19:40	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Iron	0.51	0.050	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	0.47	0.050	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Potassium	0.57	0.10	mg/L	1.00	09/01/22 16:49	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.4	0.10	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 18:16	EPA 6010D		KTH	B2H2259	RC-G



Ground Water Santee Cooper Project: 1 Riverwood Dr. Work Order: 22H1276 Moneks Corner, SC 29461 09/16/22 12:28 Reported:

Sample Number 22H1276-37

**Sample Description** AF38195 WLF-A1-4 collected on 07/11/22 15:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.14	0.050	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.036	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Boron	220	15	ug/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Calcium	76	2.5	mg/L	50.0	09/01/22 19:44	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Iron	2.6	0.050	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	1.4	0.050	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Potassium	1.3	0.10	mg/L	1.00	09/01/22 16:53	EPA 6010D		KTH	B2H2259	RC-G
Sodium	<b>2.</b> 7	0.10	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 18:33	EPA 6010D		KTH	B2H2259	RC-G

Sample Number

22H1276-38

AF38196 WLF-A1-4DUP collected on 07/11/22 15:40 **Sample Description** 

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.13	0.050	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.035	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Boron	210	15	ug/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Calcium	79	2.5	mg/L	50.0	09/01/22 19:47	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Iron	2.5	0.050	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	1.3	0.050	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Potassium	1.3	0.10	mg/L	1.00	09/01/22 16:56	EPA 6010D		KTH	B2H2259	RC-G
Sodium	2.6	0.10	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G
Zinc	ND	0.010	mg/L	1.00	08/30/22 19:00	EPA 6010D		KTH	B2H2259	RC-G



Sample Number 22H1276-39

Sample Description AF38191 WBW-A1-1 collected on 07/12/22 10:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	1.0	0.050	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.13	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Boron	47	15	ug/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Calcium	76	2.5	mg/L	50.0	09/01/22 19:50	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.8	0.050	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	2.6	0.050	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G
Potassium	4.2	0.10	mg/L	1.00	09/01/22 17:03	EPA 6010D		KTH	B2H2259	RC-G
Sodium	13	0.50	mg/L	5.00	08/30/22 19:14	EPA 6010D		KTH	B2H2259	RC-G
Zine	ND	0.010	mg/L	1.00	08/30/22 19:17	EPA 6010D		KTH	B2H2259	RC-G

Sample Number Sample Description 22H1276-40

AF38197 WLF-A1-5 collected on 07/12/22 13:58

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Aluminum	ND	0.050	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Barium	0.037	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Boron	1900	15	ug/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Calcium	290	5.0	mg/L	100	09/01/22 19:54	EPA 6010D		KTH	B2H2424	RC-G
Copper	ND	0.005	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Iron	3.0	0.050	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Lead	ND	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Lithium	ND	10	ug/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Magnesium	32	2.5	mg/L	50.0	08/30/22 19:38	EPA 6010D		KTH	B2H2259	RC-G
Molybdenum	ND	10	ug/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Nickel	ND	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Potassium	8.9	0.10	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G
Sodium	17	0.50	mg/L	5.00	08/30/22 19:41	EPA 6010D		KTH	B2H2259	RC-G
Zine	0.023	0.010	mg/L	1.00	08/30/22 19:45	EPA 6010D		KTH	B2H2259	RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22
 12:28

Sample Number 22H1276-41

Sample Description AF38192 WLF-A1-1 collected on 07/12/22 14:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.16	0.050	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Antimony	ND	0.005	mg/L	1.00	09/09/22 19:27	EPA 6020B	Z	JIP	B2H2325	RC-G
Arsenic	ND	0.005	mg/L	1.00	09/09/22 19:27	EPA 6020B		JIP	B2H2325	RC-G
Barium	0.037	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Boron	880	15	ug/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Cadmium	ND	0.004	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Calcium	310	25	mg/L	500	09/01/22 14:11	EPA 6010D		KTH	B2H2214	RC-G
Copper	ND	0.005	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Iron	11	0.25	mg/L	5.00	09/01/22 14:17	EPA 6010D		KTH	B2H2214	RC-G
Lead	ND	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Lithium	ND	10	ug/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Magnesium	9.8	0.25	mg/L	5.00	09/01/22 14:17	EPA 6010D		KTH	B2H2214	RC-G
Molybdenum	ND	10	ug/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Nickel	ND	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Potassium	5.5	0.10	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 19:27	EPA 6020B		ЛР	B2H2325	RC-G
Sodium	9.2	0.50	mg/L	5.00	09/01/22 14:17	EPA 6010D		KTH	B2H2214	RC-G
Thallium	ND	0.001	mg/L	1.00	09/09/22 19:27	EPA 6020B		JIP	B2H2325	RC-G
Zine	ND	0.010	mg/L	1.00	09/01/22 14:21	EPA 6010D		KTH	B2H2214	RC-G



Sample Number 22H1276-42

Sample Description AF38178 WAP-17 collected on 07/12/22 12:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.075	0.050	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Antimony	ND	0.005	mg/L	1.00	09/09/22 20:04	EPA 6020B	Z	JIP	B2H2325	RC-G
Arsenic	0.095	0.005	mg/L	1.00	09/09/22 20:04	EPA 6020B		JIP	B2H2325	RC-G
Barium	0.041	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Boron	3800	15	ug/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Cadmium	ND	0.004	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Calcium	240	25	mg/L	500	09/01/22 14:41	EPA 6010D		KTH	B2H2214	RC-G
Copper	ND	0.005	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Iron	1.5	0.050	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Lead	ND	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Lithium	40	10	ug/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Magnesium	39	2.5	mg/L	50.0	09/01/22 14:55	EPA 6010D		KTH	B2H2214	RC-G
Molybdenum	25	10	ug/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Nickel	ND	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Potassium	17	0.10	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 20:04	EPA 6020B		JIP	B2H2325	RC-G
Sodium	64	5.0	mg/L	50.0	09/01/22 14:55	EPA 6010D		KTH	B2H2214	RC-G
Thallium	ND	0.001	mg/L	1.00	09/09/22 20:04	EPA 6020B		JIP	B2H2325	RC-G
Zinc	ND	0.010	mg/L	1.00	09/01/22 15:02	EPA 6010D		KTH	B2H2214	RC-G



Sample Number 22H1276-43

Sample Description AF38179 WAP-17 DUP collected on 07/12/22 12:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.083	0.050	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Antimony	ND	0.005	mg/L	1.00	09/10/22 02:52	EPA 6020B	Z	JIP	B2H2327	RC-G
Arsenic	0.097	0.010	mg/L	2.00	09/09/22 23:58	EPA 6020B		ЛР	B2H2327	RC-G
Barium	0.041	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Boron	4000	15	ug/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Calcium	250	25	mg/L	500	08/31/22 13:03	EPA 6010D		CAL	B2H2302	RC-G
Copper	ND	0.005	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Iron	1.5	0.050	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Lead	ND	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Lithium	40	10	ug/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Magnesium	37	2.5	mg/L	50.0	08/31/22 13:13	EPA 6010D		CAL	B2H2302	RC-G
Molybdenum	31	10	ug/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Nickel	ND	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Potassium	16	0.10	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:58	EPA 6020B		JIP	B2H2327	RC-G
Sodium	65	5.0	mg/L	50.0	09/09/22 11:07	EPA 6010D		KTH	B2H2302	RC-G
Thallium	ND	0.001	mg/L	1.00	09/10/22 02:52	EPA 6020B		JIP	B2H2327	RC-G
Zinc	ND	0.010	mg/L	1.00	08/31/22 13:34	EPA 6010D		CAL	B2H2302	RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22
 12:28

Sample Number 22H1276-44

Sample Description AF38181 WAP-19 collected on 07/13/22 11:08

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	1.7	0.050	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Antimony	ND	0.005	mg/L	1.00	09/10/22 02:57	EPA 6020B	Z	JIP	B2H2327	RC-G
Arsenic	0.117	0.010	mg/L	2.00	09/10/22 00:03	EPA 6020B		JIP	B2H2327	RC-G
Barium	0.041	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Boron	4100	15	ug/L	1.00	08/31/22 14:22	EPA 6010D	S1	CAL	B2H2302	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Calcium	320	25	mg/L	500	08/31/22 13:51	EPA 6010D		CAL	B2H2302	RC-G
Copper	ND	0.005	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Iron	2.7	0.050	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Lead	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Lithium	770	10	ug/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Magnesium	45	2.5	mg/L	50.0	08/31/22 14:01	EPA 6010D		CAL	B2H2302	RC-G
Molybdenum	50	10	ug/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Nickel	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G
Potassium	21	0.10	mg/L	1.00	08/31/22 14:22	EPA 6010D	<b>S</b> 1	CAL	B2H2302	RC-G
Selenium	ND	0.010	mg/L	2.00	09/10/22 00:03	EPA 6020B		JIP	B2H2327	RC-G
Sodium	39	5.0	mg/L	50.0	09/09/22 11:27	EPA 6010D		KTH	B2H2302	RC-G
Thallium	ND	0.001	mg/L	1.00	09/10/22 02:57	EPA 6020B		JIP	B2H2327	RC-G
Zinc	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6010D		CAL	B2H2302	RC-G



Sample Number 22H1276-45

Sample Description AF38200 WLF-A2-6 collected on 07/14/22 11:50

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Aluminum	0.097	0.050	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Antimony	ND	0.005	mg/L	1.00	09/09/22 20:42	EPA 6020B	Z	JIP	B2H2327	RC-G
Arsenic	0.005	0.005	mg/L	1.00	09/09/22 20:42	EPA 6020B		JIP	B2H2327	RC-G
Barium	0.038	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Boron	350	15	ug/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Cadmium	ND	0.004	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Calcium	130	2.5	mg/L	50.0	09/01/22 15:12	EPA 6010D		KTH	B2H2214	RC-G
Copper	ND	0.005	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Iron	0.44	0.050	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Lead	ND	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Lithium	34	10	ug/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Magnesium	7.8	0.25	mg/L	5.00	09/01/22 15:15	EPA 6010D		KTH	B2H2214	RC-G
Molybdenum	ND	10	ug/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Nickel	ND	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Potassium	4.9	0.10	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 20:42	EPA 6020B		JIP	B2H2327	RC-G
Sodium	5.6	0.50	mg/L	5.00	09/01/22 15:15	EPA 6010D		KTH	B2H2214	RC-G
Thallium	ND	0.001	mg/L	1.00	09/09/22 20:42	EPA 6020B		JIP	B2H2327	RC-G
Zinc	ND	0.010	mg/L	1.00	09/01/22 15:19	EPA 6010D		KTH	B2H2214	RC-G



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 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22 12:28

# Total Metals **Quality Control Summary**

	Reporting			Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2183 - EPA 3005A											
Blank (B2H2183-BLK1)											
Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2183-BS1)											
Aluminum	0.47	0.050	mg/L	0.500		95	80-120				RC-G
Barium	0.47	0.010	mg/L	0.500		95	80-120				RC-G
Boron	470	15	ug/L	500		95	80-120				RC-G
Cadmium	0.47	0.004	mg/L	0.500		94	80-120				RC-G
Calcium	0.50	0.050	mg/L	0.500		99	80-120				RC-G
Copper	0.48	0.005	mg/L	0.500		96	80-120				RC-G
Iron	0.47	0.050	mg/L	0.500		95	80-120				RC-G
Lead	0.48	0.010	mg/L	0.500		96	80-120				RC-G
Lithium	479	10	ug/L	500		96	80-120				RC-G
Magnesium	0.48	0.050	mg/L	0.500		96	80-120				RC-G
Molybdenum	460	10	ug/L	500		93	80-120				RC-G
Nickel	0.47	0.010	mg/L	0.500		94	80-120				RC-G
Potassium	5.2	0.10	mg/L	5.00		104	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		97	80-120				RC-G
Zinc	0.48	0.010	mg/L	0.500		96	80-120				RC-G
Matrix Spike (B2H2183-MS1)	Source: 22I	I1276-04									
Aluminum	0.55	0.050	mg/L	0.500	ND	103	75-125				RC-G
Barium	0.70	0.010	mg/L	0.500	0.21	97	75-125				RC-G

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 Moncks Corner, SC 29461
 Reported:
 09/16/22
 12:28

# Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2183 - EPA 3005A											
Matrix Spike (B2H2183-MS1)	Source: 22I	H1276-04									
Boron	9200	15	ug/L	500	8300	170	75-125			S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	97	75-125				RC-G
Calcium	190	0.050	mg/L	0.500	560	NR	75-125			S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.011	103	75-125				RC-G
Iron	18	0.050	mg/L	0.500	18	25	75-125			S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	93	75-125				RC-G
Lithium	636	10	ug/L	500	26	122	75-125				RC-G
Magnesium	42	0.050	mg/L	0.500	78	NR	75-125			S3	RC-G
Molybdenum	480	10	ug/L	500	ND	96	75-125				RC-G
Nickel	0.46	0.010	mg/L	0.500	ND	93	75-125				RC-G
Potassium	35	0.10	mg/L	5.00	24	215	75-125			S3	RC-G
Zinc	0.46	0.010	mg/L	0.500	ND	92	75-125				RC-G
Matrix Spike (B2H2183-MS2)	Source: 22I	H1276-05									
Aluminum	0.54	0.050	mg/L	0.500	ND	101	75-125				RC-G
Barium	0.68	0.010	mg/L	0.500	0.21	94	75-125				RC-G
Boron	8800	15	ug/L	500	8100	142	75-125			S3	RC-G
Cadmium	0.47	0.004	mg/L	0.500	ND	95	75-125				RC-G
Calcium	180	0.050	mg/L	0.500	490	NR	75-125			S3	RC-G
Copper	0.51	0.005	mg/L	0.500	0.023	98	75-125				RC-G
Iron	17	0.050	mg/L	0.500	17	16	75-125			S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	91	75-125				RC-G
Lithium	613	10	ug/L	500	26	117	75-125				RC-G
Magnesium	41	0.050	mg/L	0.500	71	NR	75-125			S3	RC-G
Molybdenum	470	10	ug/L	500	ND	93	75-125				RC-G
Nickel	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Potassium	34	0.10	mg/L	5.00	23	215	75-125			S3	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	89	75-125				RC-G
Matrix Spike Dup (B2H2183-MSD1)	Source: 22I	H1276-04									
	0.56	0.050	mg/L	0.500	ND	105	75-125	2	20		RC-G
Barium	0.70	0.010	mg/L	0.500	0.21	97	75-125	0.3	20		RC-G
Boron	9100	15	ug/L	500	8300	163	75-125	0.4	20	S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125	0.6	20		RC-G
Calcium	190	0.050	mg/L	0.500	560	NR	75-125	0.1	20	S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.011	104	75-125	0.2	20		RC-G
ISIA			_								



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22 12:28

# Total Metals **Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2183 - EPA 3005A											
Aatrix Spike Dup (B2H2183-MSD1)	Source: 22I	H1276-04									
ron	18	0.050	mg/L	0.500	18	9	75-125	0.4	20	S3	RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125	0.8	20		RC-C
Lithium	637	10	ug/L	500	26	122	75-125	0.1	20		RC-C
Magnesium	42	0.050	mg/L	0.500	78	NR	75-125	0.6	20	S3	RC-C
Molybdenum	490	10	ug/L	500	ND	98	75-125	2	20		RC-C
Nickel	0.47	0.010	mg/L	0.500	ND	94	75-125	0.9	20		RC-C
Potassium	35	0.10	mg/L	5.00	24	210	75-125	0.8	20	S3	RC-C
Zinc	0.46	0.010	mg/L	0.500	ND	92	75-125	0.5	20		RC-C
Matrix Spike Dup (B2H2183-MSD2)	Source: 22I	H1276-05									
Aluminum	0.55	0.050	mg/L	0.500	ND	104	75-125	2	20		RC-C
Barium	0.71	0.010	mg/L	0.500	0.21	99	75-125	4	20		RC-C
Boron	9400	15	ug/L	500	8100	245	75-125	6	20	S3	RC-C
Cadmium	0.49	0.004	mg/L	0.500	ND	97	75-125	2	20		RC-0
Calcium	190	0.050	mg/L	0.500	490	NR	75-125	3	20	S3	RC-0
Copper	0.53	0.005	mg/L	0.500	0.023	100	75-125	3	20		RC-0
ron	18	0.050	mg/L	0.500	17	217	75-125	6	20	S3	RC-0
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125	2	20		RC-C
Lithium	676	10	ug/L	500	26	130	75-125	10	20	S1	RC-C
Magnesium	42	0.050	mg/L	0.500	71	NR	75-125	3	20	S3	RC-C
Molybdenum	480	10	ug/L	500	ND	97	75-125	3	20		RC-C
Nickel	0.46	0.010	mg/L	0.500	ND	92	75-125	2	20		RC-C
Potassium	36	0.10	mg/L	5.00	23	261	75-125	7	20	S3	RC-C
Zinc	0.45	0.010	mg/L	0.500	ND	91	75-125	2	20		RC-C
Batch B2H2214 - EPA 3005A											
Blank (B2H2214-BLK1)											
Aluminum	ND	0.050	mg/L								RC-C
Barium	ND	0.010	mg/L								RC-C
Boron	ND	15	ug/L								RC-C
Cadmium	ND	0.004	mg/L								RC-C
Calcium	ND	0.050	mg/L								RC-C
Copper	ND	0.005	mg/L								RC-C
fron	ND	0.050	mg/L								RC-C
Lead	ND	0.010	mg/L								RC-C

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## **Total Metals Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2214 - EPA 3005A											
Blank (B2H2214-BLK1)											
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2214-BS1)											
Aluminum	0.49	0.050	mg/L	0.500		98	80-120				RC-G
Barium	0.51	0.010	mg/L	0.500		103	80-120				RC-G
Boron	480	15	ug/L	500		97	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		100	80-120				RC-G
Calcium	0.50	0.050	mg/L	0.500		99	80-120				RC-G
Copper	0.49	0.005	mg/L	0.500		98	80-120				RC-G
Iron	0.59	0.050	mg/L	0.500		119	80-120				RC-G
Lead	0.52	0.010	mg/L	0.500		103	80-120				RC-G
Lithium	497	10	ug/L	500		99	80-120				RC-G
Magnesium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Molybdenum	500	10	ug/L	500		100	80-120				RC-G
Nickel	0.51	0.010	mg/L	0.500		103	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		111	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		102	80-120				RC-G
Zine	0.52	0.010	mg/L	0.500		105	80-120				RC-G
Matrix Spike (B2H2214-MS3)	Source: 22I	H1276-05RI	E <b>1</b>								
Lithium	654	10	ug/L	500	28	125	75-125			S1	RC-G
Matrix Spike (B2H2214-MS4)	Source: 221	H1276-21RI	E1								
Potassium	11	0.10	mg/L	5.00	5.4	110	75-125				RC-G
Matrix Spike (B2H2214-MS5)	Source: 22I	H1276-22RI	E <b>1</b>								
Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125			S1	RC-G

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 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22
 12:28

# Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2214 - EPA 3005A											
Matrix Spike Dup (B2H2214-MSD3)	Source: 22I	H1276-05R	E1								
Lithium	643	10	ug/L	500	28	123	75-125	2	20		RC-G
Matrix Spike Dup (B2H2214-MSD4)	Source: 22I	H1276-21R	E1								
Potassium	12	0.10	mg/L	5.00	5.4	123	75-125	6	20		RC-G
Matrix Spike Dup (B2H2214-MSD5)	Source: 22I	H1276-22R	E1								
Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125	0.02	20	S1	RC-G
Batch B2H2259 - EPA 3005A											
Blank (B2H2259-BLK1)  Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.030	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
ron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2259-BS1)											
Aluminum	0.49	0.050	mg/L	0.500		99	80-120				RC-G
Barium Barium	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Boron	490	15	ug/L	500		98	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		99	80-120				RC-G
Copper	0.49	0.005	mg/L	0.500		99	80-120				RC-G
ron	0.53	0.050	mg/L	0.500		106	80-120				RC-G
Lead	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	487	10	ug/L	500		97	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G

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1 Riverwood Dr. Work Order: 22H1276

Moncks Corner, SC 29461 Reported: 09/16/22 12:28

# Total Metals **Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2259 - EPA 3005A											
.CS (B2H2259-BS1)											
Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.5	0.10	mg/L	5.00		110	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		101	80-120				RC-G
Sinc	0.52	0.010	mg/L	0.500		103	80-120				RC-G
Matrix Spike (B2H2259-MS1)	Source: 22I	H1276-21									
luminum	0.56	0.050	mg/L	0.500	0.052	102	75-125				RC-G
arium	0.51	0.010	mg/L	0.500	ND	100	75-125				RC-G
Boron	820	15	ug/L	500	300	104	75-125				RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125				RC-G
ron	0.75	0.050	mg/L	0.500	0.20	110	75-125				RC-C
ead	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-C
ithium	543	10	ug/L	500	ND	108	75-125				RC-C
Magnesium (1997)	8.7	0.050	mg/L	0.500	8.5	51	75-125			S3	RC-C
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
lickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
otassium	12	0.10	mg/L	5.00	5.6	126	75-125			S1	RC-G
odium	24	0.10	mg/L	0.500	28	NR	75-125			S3	RC-G
inc	0.52	0.010	mg/L	0.500	ND	104	75-125				RC-G
Matrix Spike (B2H2259-MS2)	Source: 22I	H1276-22									
sluminum	1.6	0.050	mg/L	0.500	0.91	134	75-125			S1	RC-G
Barium	0.53	0.010	mg/L	0.500	0.031	100	75-125				RC-G
soron	3000	15	ug/L	500	2500	106	75-125				RC-G
admium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125				RC-G
ron	1.4	0.050	mg/L	0.500	0.83	105	75-125				RC-G
ead	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
ithium	574	10	ug/L	500	ND	115	75-125				RC-G
Magnesium	12	0.050	mg/L	0.500	13	NR	75-125			S3	RC-G
10lybdenum	510	10	ug/L	500	ND	102	75-125				RC-G
lickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
otassium	15	0.10	mg/L	5.00	10	101	75-125				RC-G
odium	16	0.10	mg/L	0.500	16	NR	75-125			S3	RC-C
line	0.51	0.010	mg/L	0.500	ND	102	75-125				RC-G

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Santee Cooper Project: Ground Water
1 Riverwood Dr. Work Order: 22H1276

Moncks Corner, SC 29461 Reported: 09/16/22 12:28

# Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2259 - EPA 3005A											
Matrix Spike Dup (B2H2259-MSD1)	Source: 22I	H1276-21									
Aluminum	0.56	0.050	mg/L	0.500	0.052	101	75-125	1	20		RC-G
Barium	0.51	0.010	mg/L	0.500	ND	101	75-125	0.4	20		RC-G
Boron	830	15	ug/L	500	300	105	75-125	0.6	20		RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125	0.3	20		RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125	0.3	20		RC-G
Iron	0.72	0.050	mg/L	0.500	0.20	105	75-125	4	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125	0.7	20		RC-G
Lithium	558	10	ug/L	500	ND	111	75-125	3	20		RC-G
Magnesium	8.8	0.050	mg/L	0.500	8.5	56	75-125	0.3	20	S3	RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	2	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.4	20		RC-G
Potassium	12	0.10	mg/L	5.00	5.6	127	75-125	0.4	20	S1	RC-G
Sodium	24	0.10	mg/L	0.500	28	NR	75-125	0.3	20	S3	RC-G
Zinc	0.52	0.010	mg/L	0.500	ND	103	75-125	0.3	20		RC-G
Matrix Spike Dup (B2H2259-MSD2)	Source: 22I	H1276-22									
Aluminum	1.6	0.050	mg/L	0.500	0.91	134	75-125	0.2	20	S1	RC-G
3arium	0.53	0.010	mg/L	0.500	0.031	100	75-125	0.2	20		RC-G
Boron	3000	15	ug/L	500	2500	111	75-125	0.9	20		RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Copper	0.51	0.005	mg/L	0.500	ND	101	75-125	0.2	20		RC-G
fron	1.4	0.050	mg/L	0.500	0.83	105	75-125	0.01	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125	0.4	20		RC-G
Lithium	544	10	ug/L	500	ND	109	75-125	5	20		RC-G
Magnesium	12	0.050	mg/L	0.500	13	NR	75-125	0.9	20	S3	RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	0.9	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.1	20		RC-G
Potassium	15	0.10	mg/L	5.00	10	103	75-125	0.6	20		RC-G
Sodium	16	0.10	mg/L	0.500	16	NR	75-125	0.5	20	S3	RC-G
Zinc	0.51	0.010	mg/L	0.500	ND	102	75-125	0.2	20		RC-G
Batch B2H2302 - EPA 3005A											
Blank (B2H2302-BLK1)											
Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G

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 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H1276

 Moncks Corner, SC 29461
 Reported:
 09/16/22 12:28

# Total Metals Quality Control Summary

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2302 - EPA 3005A											
Blank (B2H2302-BLK1)											
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2302-BS1)											
Aluminum	0.49	0.050	mg/L	0.500		98	80-120				RC-G
Barium Barium	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Boron	510	15	ug/L	500		101	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		100	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Copper	0.51	0.005	mg/L	0.500		102	80-120				RC-G
Iron	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Lead	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	493	10	ug/L	500		99	80-120				RC-G
Magnesium	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Molybdenum	500	10	ug/L	500		100	80-120				RC-G
Nickel	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Potassium	5.3	0.10	mg/L	5.00		106	80-120				RC-G
Sodium	0.53	0.10	mg/L	0.500		107	80-120				RC-G
Zinc	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Duplicate (B2H2302-DUP1)	Source: 22I	I1276-43									
Aluminum	0.081	0.050	mg/L		0.083			2	20		RC-G
Barium	0.041	0.010	mg/L		0.041			0.4	20		RC-G
Boron	4000	15	ug/L		4000			0.7	20		RC-G
Cadmium	ND	0.004	mg/L		ND				20		RC-G

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Santee Cooper Project: Ground Water
1 Riverwood Dr. Work Order: 22H1276

Moncks Corner, SC 29461 Reported: 09/16/22 12:28

# Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2302 - EPA 3005	5 <b>A</b>										
Duplicate (B2H2302-DUP1)	Source: 22I	H1276-43									
Calcium	110	0.050	mg/L		250			78	20	P4	RC-G
Copper	ND	0.005	mg/L		ND				20		RC-G
Iron	1.5	0.050	mg/L		1.5			0.5	20		RC-G
Lead	ND	0.010	mg/L		ND				20		RC-G
Lithium	40	10	ug/L		40			0.5	20		RC-G
Magnesium	25	0.050	mg/L		37			36	20	P4	RC-G
Molybdenum	31	10	ug/L		31			2	20		RC-G
Nickel	ND	0.010	mg/L		ND				20		RC-G
Potassium	16	0.10	mg/L		16			0.5	20		RC-G
Sodium	67	5.0	mg/L		65			3	20		RC-G
Zinc	ND	0.010	mg/L		ND				20		RC-G
Matrix Spike (B2H2302-MS1)	Source: 22I	H1276-43									
Aluminum	0.56	0.050	mg/L	0.500	0.083	94	75-125				RC-G
Barium	0.50	0.010	mg/L	0.500	0.041	92	75-125				RC-G
Boron	4400	15	ug/L	500	4000	84	75-125				RC-G
Cadmium	0.46	0.004	mg/L	0.500	ND	92	75-125				RC-G
Calcium	110	0.050	mg/L	0.500	250	NR	75-125			S3	RC-G
Copper	0.49	0.005	mg/L	0.500	ND	98	75-125				RC-G
Iron	1.9	0.050	mg/L	0.500	1.5	88	75-125				RC-G
Lead	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Lithium	582	10	ug/L	500	40	108	75-125				RC-G
Magnesium	25	0.050	mg/L	0.500	37	NR	75-125			S3	RC-G
Molybdenum	490	10	ug/L	500	31	92	75-125				RC-G
Potassium	22	0.10	mg/L	5.00	16	104	75-125				RC-G
Sodium	67	5.0	mg/L	0.500	65	365	75-125			S4	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Matrix Spike (B2H2302-MS2)	Source: 22I	H1276-44									
Aluminum	2.3	0.050	mg/L	0.500	1.7	111	75-125				RC-G
Barium	0.53	0.010	mg/L	0.500	0.041	98	75-125				RC-G
Boron	4800	15	ug/L	500	4100	131	75-125			S1	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125				RC-G
Calcium	150	0.050	mg/L	0.500	320	NR	75-125			S3	RC-G
Copper	0.52	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.3	0.050	mg/L	0.500	2.7	113	75-125				RC-G
			1.5								

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Santee Cooper Ground Water Project: 1 Riverwood Dr. Work Order: 22H1276 Moncks Corner, SC 29461 09/16/22 12:28 Reported:

## **Total Metals Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2302 - EPA 3005A											
Matrix Spike (B2H2302-MS2)	Source: 22I	H1276-44									
Lead	0.48	0.010	mg/L	0.500	ND	95	75-125				RC-G
Lithium	1370	10	ug/L	500	773	120	75-125				RC-G
Magnesium	31	0.050	mg/L	0.500	45	NR	75-125			S3	RC-G
Molybdenum	540	10	ug/L	500	50	98	75-125				RC-G
Nickel	0.49	0.010	mg/L	0.500	ND	99	75-125				RC-G
Potassium	28	0.10	mg/L	5.00	21	132	75-125			S1	RC-G
Sodium	52	5.0	mg/L	0.500	39	NR	75-125			S4	RC-G
Zinc	0.48	0.010	mg/L	0.500	ND	95	75-125				RC-G
Matrix Spike Dup (B2H2302-MSD2)	Source: 22I	H1276-44									
Aluminum	2.3	0.050	mg/L	0.500	1.7	118	75-125	1	20		RC-G
Barium	0.55	0.010	mg/L	0.500	0.041	101	75-125	3	20		RC-G
Boron	4900	15	ug/L	500	4100	145	75-125	1	20	S1	RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	101	75-125	3	20		RC-G
Calcium	150	0.050	mg/L	0.500	320	NR	75-125	0.4	20	S3	RC-G
Copper	0.54	0.005	mg/L	0.500	ND	108	75-125	3	20		RC-G
Iron	3.3	0.050	mg/L	0.500	2.7	118	75-125	0.8	20		RC-G
Lead	0.49	0.010	mg/L	0.500	ND	98	75-125	3	20		RC-G
Lithium	1390	10	ug/L	500	773	124	75-125	2	20		RC-G
Magnesium	31	0.050	mg/L	0.500	45	NR	75-125	0.1	20	S3	RC-G
Molybdenum	560	10	ug/L	500	50	103	75-125	4	20		RC-G
Nickel	0.51	0.010	mg/L	0.500	ND	101	75-125	2	20		RC-G
Potassium	28	0.10	mg/L	5.00	21	137	75-125	1	20	S1	RC-G
Sodium	47	5.0	mg/L	0.500	39	NR	75-125	9	20	S4	RC-G
Zinc	0.49	0.010	mg/L	0.500	ND	98	75-125	3	20		RC-G
Batch B2H2325 - EPA 3005A	Mod										
Blank (B2H2325-BLK1)											
Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Thallium	ND	0.001	mg/L								RC-G

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Santee Cooper Project: Ground Water
1 Riverwood Dr. Work Order: 22H1276

Moncks Corner, SC 29461 Reported: 09/16/22 12:28

# Total Metals **Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2325 - EPA 3005A	Mod										
LCS (B2H2325-BS1)											
Antimony	0.235	0.005	mg/L	0.200		117	80-120				RC-G
Arsenic	0.214	0.005	mg/L	0.200		107	80-120				RC-G
Selenium	0.207	0.005	mg/L	0.200		104	80-120				RC-G
Γhallium	0.213	0.001	mg/L	0.200		107	80-120				RC-G
Matrix Spike (B2H2325-MS1)	Source: 22I	H1276-41									
Antimony	0.273	0.005	mg/L	0.200	ND	136	75-125			Z	RC-G
Arsenic	0.216	0.005	mg/L	0.200	ND	107	75-125				RC-G
Selenium	0.200	0.005	mg/L	0.200	ND	98	75-125				RC-G
Гhallium	0.201	0.001	mg/L	0.200	ND	100	75-125				RC-G
Matrix Spike (B2H2325-MS2)	Source: 22I	H1276-42									
Antimony	0.270	0.005	mg/L	0.200	ND	135	75-125			Z	RC-G
Arsenic	0.298	0.005	mg/L	0.200	0.095	102	75-125				RC-G
Selenium	0.202	0.005	mg/L	0.200	ND	100	75-125				RC-G
Γhallium	0.184	0.001	mg/L	0.200	ND	92	75-125				RC-G
Matrix Spike Dup (B2H2325-MSD1)	Source: 22I	H1276-41									
Antimony	0.276	0.005	mg/L	0.200	ND	138	75-125	1	20	Z	RC-G
Arsenic	0.211	0.005	mg/L	0.200	ND	105	75-125	2	20		RC-G
Selenium	0.199	0.005	mg/L	0.200	ND	98	75-125	0.6	20		RC-G
Thallium	0.205	0.001	mg/L	0.200	ND	102	75-125	2	20		RC-G
Matrix Spike Dup (B2H2325-MSD2)	Source: 22I	H1276-42									
Antimony	0.284	0.005	mg/L	0.200	ND	142	75-125	5	20	Z	RC-G
Arsenic	0.308	0.005	mg/L	0.200	0.095	107	75-125	3	20		RC-G
Selenium	0.212	0.005	mg/L	0.200	ND	105	75-125	5	20		RC-G
Гhallium	0.197	0.001	mg/L	0.200	ND	98	75-125	7	20		RC-G
Batch B2H2327 - EPA 3005A	Mod										
Blank (B2H2327-BLK1)											
Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G

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Santee Cooper Ground Water Project: 1 Riverwood Dr. Work Order: 22H1276 Moncks Corner, SC 29461 09/16/22 12:28 Reported:

## **Total Metals Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2327 - EPA 3005A	Mod										
LCS (B2H2327-BS1)											
Antimony	0.237	0.005	mg/L	0.200		119	80-120				RC-G
Arsenic	0.218	0.005	mg/L	0.200		109	80-120				RC-G
Selenium	0.226	0.005	mg/L	0.200		113	80-120				RC-G
Гhallium	0.206	0.001	mg/L	0.200		103	80-120				RC-G
Matrix Spike (B2H2327-MS1)	Source: 22I	H1276-45									
Antimony	0.268	0.005	mg/L	0.200	ND	133	75-125			Z	RC-G
Arsenic	0.216	0.005	mg/L	0.200	0.005	105	75-125				RC-G
Selenium	0.208	0.005	mg/L	0.200	ND	102	75-125				RC-G
Гhallium	0.196	0.001	mg/L	0.200	ND	98	75-125				RC-G
Matrix Spike Dup (B2H2327-MSD1)	Source: 22I	H1276-45									
Antimony	0.264	0.005	mg/L	0.200	ND	131	75-125	1	20	Z	RC-G
Arsenic	0.212	0.005	mg/L	0.200	0.005	103	75-125	2	20		RC-G
Selenium	0.207	0.005	mg/L	0.200	ND	102	75-125	0.5	20		RC-G
Thallium	0.194	0.001	mg/L	0.200	ND	97	75-125	1	20		RC-G
Batch B2H2424 - EPA 3005A											
Blank (B2H2424-BLK1)											
Calcium	ND	0.050	mg/L								RC-G
LCS (B2H2424-BS1)											
Calcium	0.52	0.050	mg/L	0.500		105	80-120				RC-G
Matrix Spike (B2H2424-MS1)	Source: 22I	H1276-25									
Calcium	44	0.25	mg/L	2.50	53	NR	75-125			S4	RC-G
Matrix Spike (B2H2424-MS2)	Source: 22I	H1276-26									
Calcium	1100	25	mg/L	250	990	45	75-125			S4	RC-G
Matrix Spike Dup (B2H2424-MSD1)	Source: 22I	H1276-25									
Calcium	45	0.25	mg/L	2.50	53	NR	75-125	2	20	S3	RC-G

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Santee CooperProject:Ground Water1 Riverwood Dr.Work Order:22H1276Moncks Corner, SC 29461Reported:09/16/22 12:28

# Total Metals **Quality Control Summary**

	F	Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H2424 - EPA 3005A											
Matrix Spike Dup (B2H2424-MSD2)	Source: 22H	1276-26									
Calcium	1500	25	mg/L	250	990	199	75-125	30	20	P4, S4	RC-G

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Santee Cooper Project: Ground Water
1 Riverwood Dr. Work Order: 22H1276

Moncks Corner, SC 29461 Reported: 09/16/22 12:28

## Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst	
EPA 3005A ICP Digestion					
EPA 3005A	B2H2183	22H1276-01	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-02	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-03	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-04	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-05	08/25/2022 11:22	KTH	
EPA 3005A	B2H2214	22H1276-05RE1	08/28/2022 11:00	EDM	
EPA 3005A	B2H2183	22H1276-06	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-07	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-08	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-09	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-10	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-11	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-12	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-13	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-14	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-15	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-16	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-17	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-18	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-19	08/25/2022 11:22	KTH	
EPA 3005A	B2H2183	22H1276-20	08/25/2022 11:22	KTH	
EPA 3005A	B2H2259	22H1276-21	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-21	08/31/2022 14:30	EDM	
EPA 3005A	B2H2214	22H1276-21RE1	08/28/2022 11:00	EDM	
EPA 3005A	B2H2259	22H1276-22	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-22	08/31/2022 14:30	EDM	
EPA 3005A	B2H2214	22H1276-22RE1	08/28/2022 11:00	EDM	
EPA 3005A	B2H2259	22H1276-23	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-23	08/31/2022 14:30	EDM	
EPA 3005A	B2H2259	22H1276-24	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-24	08/31/2022 14:30	EDM	
EPA 3005A	B2H2259	22H1276-25	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-25	08/31/2022 14:30	EDM	
EPA 3005A	B2H2259	22H1276-26	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-26	08/31/2022 14:30	EDM	
EPA 3005A	B2H2259	22H1276-27	08/26/2022 12:33	EDM	
EPA 3005A	B2H2424	22H1276-27	08/31/2022 14:30	EDM	

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Santee Cooper			Project:	Ground Water
1 Riverwood Dr.			Work Order:	22H1276
Moncks Corner, SC 29461			Reported:	09/16/22 12:28
EPA 3005A	B2H2259	22H1276-28	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-28	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-29	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-29	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-30	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-30	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-31	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-31	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-32	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-32	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-33	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-33	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-34	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-34	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-35	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-35	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-36	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-36	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-37	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-37	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-38	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-38	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-39	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-39	08/31/2022 14	:30 EDM
EPA 3005A	B2H2259	22H1276-40	08/26/2022 12	:33 EDM
EPA 3005A	B2H2424	22H1276-40	08/31/2022 14	:30 EDM
EPA 3005A	B2H2214	22H1276-41	08/28/2022 11:	:00 EDM
EPA 3005A	B2H2214	22H1276-42	08/28/2022 11:	:00 EDM
EPA 3005A	B2H2302	22H1276-43	08/29/2022 11:	:05 EDM
EPA 3005A	B2H2302	22H1276-44	08/29/2022 11:	:05 EDM
EPA 3005A	B2H2214	22H1276-45	08/28/2022 11:	:00 EDM
EPA 3005A ICPMS Digestion				
EPA 3005A Mod	B2H2325	22H1276-41	08/29/2022 16	:00 EDM
EPA 3005A Mod	B2H2325	22H1276-42	08/29/2022 16	:00 EDM
EPA 3005A Mod	B2H2327	22H1276-43	08/29/2022 16	:00 EDM
EPA 3005A Mod	B2H2327	22H1276-44	08/29/2022 16	:00 EDM
EPA 3005A Mod	B2H2327	22H1276-45	08/29/2022 16	:00 EDM

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Analyte NOT DETECTED at or above the reporting limit

Santee Cooper Project: Ground Water
1 Riverwood Dr. Work Order: 22H1276
Moncks Corner, SC 29461 Reported: 09/16/22 12:28

### **Data Qualifiers and Definitions**

NR	Not reported
RPD	Relative Percent Difference
P4	Estimated value - the sample / duplicate or matrix spike / spike duplicate results exceeded the calibration range. The RPD was not evaluated against the control limits.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
S3	Estimated value - the spike result exceeded the calibration range. The spike recovery was not evaluated against the control limits.
S4	The spike was diluted out due to the sample concentration. The spike recovery was not evaluated against the control limits.
Z	The matrix spike and/or matrix spike duplicate was not within the control limits - failed high. There are no detections in the sample.

#### Laboratory Reference:

ND

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105 RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

Send report to |cwillia@santeecooper.com & sibrown@santeecooper.com

## **Chain of Custody**



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

-	@santeecooper.co					——	//.	eded t	y:	125		oject/	167.0		3/_365	Rerun reque	s No		
	Labworks (Internal only)		Sample L Descripti		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)	Me     Re     Mi     An	cthod # porting lim sc. sample by other not	info	TOTAL METALS	-SEE BELOW	
1	AF3819	57	WAP-3	2		7/6/22	1251	BM	1	P	G	GW	2	SEE	ATTAC	HED SHEET	×		
	1	61	WAP-	6		7/11/22	1255	İ	1		1		1	FOR TO	S. AND	METHOD .			
		63	WAP-	8		7/12/22	(153										1		
		65	WAP-	0		7/13/22													
		66	WAP-I		i la	1	1327												
		64	WAP-S		ş I														_
ľ						7/11/10	1434					+						+	
	1	60 WAP-5			7/14/22						+					+	+	_	
		67 58				7/18/22	1106					1					+	+	
-			WAP-3			7/18/22	1201	+		1							+	+	_
		51	WAP-4				1522	-	_				-		Comple	Receiving (Interna	<u>  -</u>		-
	Relinquis		Emplo 3559		8/22/22	Time	FedE	distance of the latest service of the latest	En	ployee		Date		Time	TEMP	(°C): 13.4	Initi	al: V	4
,	Relinquis	shed by:	Emplo	A	Date	Time	Receive		En	ployee		Date		Time	Correc	et pH: Yes N	No.		
					08/24/2	20940	KAN	\			0	1241	11 (	GUP	Preser	vative Lot#:			
	Relinquis	shed by:	Emplo	ree#	Date	Time	Receive		Em	nployee f		Date		Time					
Ι		□ ME	TALS (8	11)	Note	rients	BAIC	_		G <sub>v</sub>				6		ime/Init for prese	rvative:		
	□ Ag ℤ Al	A Cu	79	_	100	A40 77 10 78 18 18	MIS DBTEX	<u>c.</u>	g	Wallbo	Sun ard		DI	Coal		Flyash  D Ammonia	1000	Oil ans Oil	
1	As	ZK	0.5	DESCRIPTION OF THE PARTY OF THE	DO DO	C TPO4	☐ Napthaler ☐ THM/HA			Gyps	um(al	1	All Indiana	□ % Mois	ture	ULOI	TO SERVICE		
100	ВB	ZLi	0.5		NH	3.N	□ VOC □ Oil & Gre			U Al	4			☐ Ash ☐ Sulfur		C % Curbon    Vineral			
1	Ba	Z Mg	01	Γi	DCI.		□ E. Coli			Total	l metal	4	Harris Co.	BTUs		Analysis			
	≥ Be	1 Mn	1/1	n	NO	2	□ Total Col	tonn			bie Me			☐ Volatile ☐ CHN	Matter	☐ Sieve ☐ % Moisture		ed Oil	
5	Ca	/ Mo	101	1	Br	A STATE OF THE PARTY OF THE PAR	☐ Dissolved			13 % N	oisture		Oti	her Tests:					
Ĺ	Cd	Na	1/2	Zn .	1 NO		☐ Dissolved☐ Rad 226	re		Sulf	ites		DH	RF Scan		NPDES			
		Ni	01				□ Rad 228 □ PCB			Chk			DF	ineness		□ Oii & Grease □ As			
	Co								PERSONAL PROPERTY.	Part	OF PARTY SERVICE	THE RESERVED TO SHARE SH	51 1 1 1	articulate M	auer		The second second		

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LCWIL	stomer Email/Report Recipient:  @santeecooper.com				,	,		1250	116	/ JM	02.0	09.601.1	Oll Service On President	st for any flagg
			coopericoni										<u>36500</u> Yes	No Analysis
Labwork (Internal only)	A STATE OF THE PARTY OF THE PAR	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 below)	Misc.	Comments od # rting limit sample info other notes	TOTAL METALS -SEE BELOW
AF38	90	WBW-1		7/6/22	1023	DEW	-	P	G	GW	2		TACHED SHEET	×
	=6	WAP-1		1	1137	1				1				
	68	WAP-12			1406								3000	
and and a	69	WAP-12 D	PUP	11	14-11	1								
	84	WAP-22		7/7/22	1344	DEN								
AB \$124/22	87	WAP-25		7/11/22	1030	DEW BM								
	88	WAP - 26			1144									
	89	WAP- 26 [	oup	1	1146									
	62	WAP-7		7/13/22	1000	1	I	_	]	1	1			
8/24/2														
Relinqui	ished by:	Employee#	Date	Time	Receiv	red by:	Er	nployee	#	Date		Time	Sample Receiving (Interna. TEMP (°C): 23.4	Use Only) Initial: UA
Amro	un	35594	8/22/22	1500										mittai: Der
	ished by:	Employee#	Date	Time	Receiv	red by:	En	nployee	#	Date		Time	Correct pH: Yes N	0
Fu	dEx		0404	708/24	Ya	3			C	8/20	1 (	2940 0948	Preservative Lot#:	
	ished by:	Employee#	Date	Time		ved by:	En	nployee		Date		Time	CJA 08/24/26	
	MF	TALS (all)			VALUE (ALL)	TO THE PARTY OF TH							Date/Time/Init for preser	vative:
□ Ag	Z Cu	AND DESCRIPTION OF THE PERSON OF	Non-tenant	rients	MI	SC.			osum			Coal	<u>Flyash</u>	011
(AI	7 Fe	□ Se	D TO		☐ BTEX ☐ Napthale	ene	100	Wallbo	ard sum(al	,	The state of the s	Ultimate  ☐ % Moistur	1 Ammonia	Frans, Oil Q Microson
As	≥K	□ Sn	O IP	TP04	□ THM/H.			belov	v)			☐ Ash	e DEO:	
Z B	PLi	□ Sr	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BaN.	□ VOC □ Oil & G	rease		U AE				□ Sulfur	□ Nimeral	
Ba	Mg	n Ti	en en		☐ E. Coli ☐ Total Co	liform		0 1 ot	al metal			☐ BTUs ☐ Volatile M	Analysis   latter	
Z Be	□Mn	TI	DN0	2	□pH				ible Me			□ CHN	0%Nioisaire	Used Oil
∕ Ca	Z Mo	OV	Br GNO		☐ Dissolve			E % N	deisture			her Tests: (RF Scan	NACCO	Unshipmen Waters to o
<b>∠</b> Cd	Z Na	Zzn	0.50		☐ Rad 226			□ pH			DH	IGI	NPDES	
Co	Ni	□Hg			☐ Rad 228 ☐ PCB			U Chl	orides icle Siz			ineness articulate Matt	U Oil & Grease	10g) 1X
Z Cr	1 Pb	☐ CrVI			- SENERE			Sulfur	-				□ TSS	GOLER

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# **Chain of Custody**



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	@santeecooper.com  Description  Bostomer Email/Report Recipient:  @santeecooper.com  Description				Results N	eeded b	y:	25				Unit #: 7. 6 01 - 1	] 36500	Rerun reque	No	
		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	• Re	Commethod # eporting limit isc. sample in any other notes	ıfo	TOTAL METALS	Analysis G
AF381	85	WAP-23		7/3/22	1225	DEW	1	P	G	GW.	2	SEE	SHEED R	OF PLS 4	×	
	86	WAP-24		1	[53]		1		1	1	1	METHO			1	
	83	WAP-21		7/14/2	1045										+	
	77	WAP- 16		1	1											++
		WAF-16		1	1248		+		+	-					-	-
	70	WAP-13		7/18/2	2  3 2				$\perp$						1	
	76	WAP-15		1	1490	1										
	ור	WAP-14		7/20/22	1412	DI										
	72	WAP-14 DI	JP	1	1417	1				1						
Relina	ished by:	Employee#	Date	Time									Sample R	eceiving (Internal	Use Or	lu)
Santron		35594	8/22/22	1530	Receiv		En	nployee #		Date		Time	TEMP (	C): 13.4		E KAR
	ished by:	Employee#	Date	Time	Receiv		En	nployee #		Date	1545 7	Time	Correct	pH: Yes No		
Feo	EX		0424	69410	K	h			19	5/24		0940	Preserva	tive Lot#:		
	ished by:	Employee#	Date	Time	Receiv	ed by:	Em	ployee #	_	Date		Time				
													Date/Tim	e/Init for preserv	ative:	
		TALS (all)	Nut	trients	MIS	ic.	76	Gyr	sum			Coal		Flyash		Oil
Ag	Z Fe		FTC	œ	□ BTEX		l b	Wallboa			ום	Itimate		Ammonia	In	os. Off Ou
As	K	□ Sn		DC TPO4	☐ Napthale ☐ THM/HA			Gypsi				☐ % Mois	ture	LOI		
B	Z Li	□ Sr		II-N	□ VOC		100/	D AIN				☐ Ash ☐ Sulfur		% Carbon Mineral		
Ba	✓ Mg				□ Oil & Gr	ease		Tota		W. 3		□ BTUs		Analysis		
Be	□ Mn		E CI		□ Total Col	iform	1	Solu	ble Mei	als		□ Volatile		Sieve		
Ca	/ Mo		Br		☐ Dissolved			Punt 25 M				CHN her Tests:		1% Moisture		ed Oil
Cd	/ Na		NO SO		☐ Dissolved ☐ Rad 226	i Fe	10	□ Sulfi □ pH				RF Scan		NPDES		
	\$1.000			V-50 051	□ Rad 228			Chlo	rides			ineness		Oil & Grease		
Co	ZNi	Hg			□ PCB		100000000000000000000000000000000000000	Pani				articulate M				

# **Chain of Custody**



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

	UILLIA	/Report Recipi	cooper.com		esults N			125		oject/1		9.681.1	]_36	Rerun reques	No	y magi
Labwo	orks ID#	Sample Location	on/		The same of the sa	The second					August 19				An	alysis (
(Intern only)		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>Met</li><li>Rep</li><li>Miss</li><li>Any</li></ul>	hod # orting lin c. sample other no	info	TOTAL METALS -SEE BELOW	
AF3	8173	WAP-14A		7/20/22	1100	DEW	1	B	G G	em	2	SEE		FOR RLS >	X	
1	74	148		1	1220		1			1	1					
	75	1 1110														+
	75	- 140		-	1317	<u></u>	-			2	+			3100 111	+	+
1	82	WAP-20	***	7/28/22	(100	DEW	1	P	С	€W	1				1	+
															$\vdash$	1
																+
													11-11-11-11-11-11-11-11-11-11-11-11-11-			
											- Control of the Cont					
Relino	quished by:	Employee#	Date	Time	Receiv	red by:	En	nployee	#	Date		Time	Sample	e Receiving (Internal		
Agran.	oun	35594	8/22/22	1530	Red	EX	1			2000000			TEMI	(°C): 23.4	Initial:	_KA
	quished by:	Employee#	Date	Time		ed by:	En	nployee	#	Date		Time	Corre	ct pH: Yes No		
Fed	IEx		08/24	09410	KA	2			(	8/4	(	940	Preser	vative Lot#:		
	quished by:	Employee#	Date	Time		ed by:	En	nployee		Date		Time		20 W		
		TALS (all )			100					- 201			Date/1	Time/Init for preserv		
□Ag	≥ Cu	≥ Sb	INUT	rients	MIS D BTEX	SC.		Wailbo	osun ard	<u> </u>	0.	Coal Ultimate		<u>Flyash</u>	Trans	Oil
Z Al	d Fe		DU	c	□ Napthale			Gyp	um(al	7	The state of the state of	☐ % Moist	ire	□ Ammonia □ Li∋i		
ZAs	ZK	□ Sn	The second secon		□ THM/H/ □ VOC	AA		belov All	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		He see	□ Ash		C. % Carbon		
ZB	ZLi	□ Sr	- N		□ Oil & Gr	rease		□ TO	C		1	□ Sulfur □ BTUs		Minerat     Analysis		
Ba	≥ Mg		0.61		☐ Total Co	liform			ai metal able Me		Que en la	□ Volatile l	Matter	D Steve		
Z Be	□ Mr		Bi	Market Control of the	□ pH □ Dissolve	d As		Pur	ity (CaS	(04)	31 10 15 15	CHN her Tests:		E % Moisture	: Used	
Ca	Mo		CINC	3	☐ Dissolve	d Fe		U Sul	foisture fires			RF Scan		NPDES		
/ Cd	ZNa				☐ Rad 226 ☐ Rad 228			pH			OH	ineness		Di Oti & Grense		
Z Co	// Ni	□Hg			□ PCB				oriaes icle Siz	e		articulate Ma	tter	D As	- tX	
Cr	A Pb	☐ CrVI						Sulfur						T88	GOFT	K

## **Chain of Custody**



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

	Custome	Customer Email/Report Recipient:					Results No	eeded b	y:		Pr	oject/	「ask/l	Jnit #:		Rerun reques	st for a	any flagg
	LCWI	LLIA		_@santee	cooper.com	-	//			125	715	J_JM	02.0	8. <del>6</del> Ø1.	1_36	5∞ Yes		
	Labwork (Internal only)		12000	ample Locati escription	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)	Met     Rep     Mis     Any	Con hod # orting lin c. sample other no	info	TOTAL METALS	Analysis G
	V±38	199	w	LF-A2-	2.	7/17/22	1137	DEW	I	P	G	GW	2		SHEE	FOR RLS	X	
	1	98	W	LF - A2-	1		1237	1	1	1	1	The same of the sa	1	+ METH	ep.		1	
	1	80		AP-18	<del> </del>		1443				1	1	I		1141			
	1	93	80	LF-AI-	2	7/11/22	1338	DEW								111-2-12-3	11	
		94		1 1 -	3	1	1941										1	
		95		-	4		1535											
		96	-		4 DUP	11	1540	1										
		4	W	BW-AI-	- ]	7/12/22	1044										1	
		97	WBW-A -1	1	1358													
	1	92	_	1 1	1	1	1455	1									1	
7	Relinqui	ished by:		Employee#	Date	Time	Receiv	ed by:	Er	nployee	# 4	Date	and a	Time	Sampl	le Receiving (Internal P (°C):_73.4	Use O	nly)
1	Stynou			35594	8/22/2	1500		IEX										PA
	Relinqu	ished by:		Employee#	Date	Time	Receiv	ed by:	Er	nployee	#	Date		Time		ect pH: Yes No	0	
	Fee	LEX			08/24	0940	49	h			0	8/11	1 0	0490	Prese	rvative Lot#:		
	Relinqui	ished by:		Employee#	Date	Time	Receiv	ed by:	En	nployee		Date		Time				
I		D.M.	2700 A	LS (all)											Date/	Time/Init for presen	vative:	
-	□ Ag	Z Cu		Z Sb	The state of the s	rients	MIS	SC.			psun	ū		Coal		<u>Flyash</u>		Oil
	// Al	/ Fe		Z Se	0 10 0 D0		☐ BTEX ☐ Napthale	ne		Walibo	ard sum( <i>a</i> :	11		Ultimate  ☐ % Moist	100	Amasonia I Gl		ms Ol Qi Ndebarana
	As	<b>∕</b> K		O Sn	10	TF04	O THM/H			belov	r)		STATE OF THE STATE	□ Ash		□% Carbon		
[	<b>⊠</b> B	18 Li		□ Sr	O.NH	BIN	□ VOC □ Oil & Gr	rease		D AE			The second	O Sulfur		[] Mineral		
	Z Ba	12 Mg	g	□ Ti	Be		□ E. Coli □ Total Co	liform		□ les	al meta		No. of the last	☐ BTUs ☐ Volatile	Matter	Analysis El Sieve		
	Z Be	□ Mı	0	ØT1	I NO		□pH			D Pun	ible Ma ity (CaS	504)		□ CHN		□ % Meisture	Us	ed On
	Ca	ZM	)	□ V	B	531	☐ Dissolve			U % N	doistur			her Tests:		NIDOCC		badgeom Rushe is vi
1	Z Cd	EDNO3	STREET, SQUARE	☐ Rad 226			□ pH			CH	IGI		NPDES COU & Grease					
	Z Co	Z/Ni		□ Hg			□ Rad 228 □ PCB				orides iele Siz	e de	1	ineness articulate Ma	itter	C/As		M.
Γ	Cr	Pb		☐ CrVI						Salfur			E ALL			O TSS		OFT IS

# **Chain of Custody**



	Customer	Email,	/керс	rt Recipi	ent:	Date F	lesults Ne	eeded b	y:			(5) £		Jnit #:		equest fo	r any flagge
	LCWIL	UA	(	@santeed	cooper.com					125	715	/_ JM	07.0	8. 601.1	1_36500	Yes N	lo
THE RESIDENCE OF THE PARTY OF T	Labworks (Internal u only)	-		ple Location	in/	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)	Met     Rep     Mis     Any	Comments hod # orting limit c. sample info other notes	) ELECTIVE I PARTIE	Analysis Gro
	AF381	+8	WA	4-17		7/12/22	1235	DEN	1	P	G-	GW	2		PHEET FOR RLS		×
		79	1	- 17	DUP	L	1240	1	1		}	1	1	METH	D.		
			lara	P-19		7/13/22	1108				1				XIII XIII XIII XIII XIII XIII XIII XII		
		81		=- A2-		7/14/22	1150	1	1		1	1					
	Relinquis	hed by:	E	mployee#	Date	Time	Receiv	red by:	E	mployee	#	Date		Time	Sample Receiving (II TEMP (°C): 23	nternal Use	Only)
	8 Hyroa	*7	3	5574	8/22/22	1500	Ende			Employee #					Correct pH: Yes		mai. UP
	Relinquis	hed by:	E	mployee#	Date	Time	Receiv	red by:	E	mployee	#	Date		Time		210	
	-	IEX			08/24	09410	KA	4				120	-	0940	Preservative Lot#:		
	Relinquis	hed by:	E	mployee#	Date	Time	Receiv	red by:	E	mployee	#	Date		Time	Date/Time/Init for	oreservativ	ve:
		ПМЕ	TAI	S (all)		name I				6	psur			Manage and			
	□Ag	2 Cu		₫ Sb	D TO	ients	MI:	<u>sc.</u>		Wallbo	CHILD CO.		0	Coal Ultimate	Flyash   Ammonia		Oil Trans, Oil On
	Al As	□ Fe		☑ Se	DO		☐ Napthale				sum(a	11		☐ % Moist	ure DLOI		
	✓B	ZLi		□ Sr	INFL	TPO4	□ VOC			D AL	M			☐ Ash ☐ Sulfur	☐ % Carbon ☐ Mimeral		
	Ba	D'Mg	-	D Ti	EL		□ Oil & G			E Tot	c al meta	is	The second	□ BTUs	Analy	sis	
	Z Be	□ Mı		ØTI	I CI		□ Total Co	oliform		D Sol	uble M	etals		□ Volatile □ CHN	Matter     Sieve       % Morsti	ire ire	rabbanived G Escal Olik
	Z Ca	Mo		OV	0.80		□ Dissolve			3%	doistur			her Tests:		167	
	Cd	Na		□/Zn	U NO.		☐ Dissolve ☐ Rad 226			□ Sul □ pH	fites		The Court of	KRF Scan	NPDES		
	/Co	/ Ni		□Hg			□ Rad 228 □ PCB			□ Chi	orides note Si	1200		ineness Particulate M	3 Oil & Gress	NG.	
	Cr	Z Pb		□ CrVI			2100			Sulfur	icle 31			Ditteriale IVI	□ TSS	THE REAL PROPERTY.	GOFER

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum ICP	mg/L	0.05 to 0.2	
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arcenic Dissolved	ug/L		
Barium 6010 ICP	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron 6010 ICP	ug/L		10 to 15
Cadmium 6010 ICP	ug/L	5	0.5
Calcium 6010 ICP	ug/L		0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper 6010 ICP	mg/L	1	
ron 6010 ICP	ug/L	300	-
Lead 6010 ICP	ug/L	15	1
ithium 6010 ICP	ug/L	40	5
Magnesium 6010 TCP	ug/L		
Aerousy	ug/L		0:2
Molybdenum 6010 ICP	ug/L	100	5
Vickel 6010 ICP	ug/L		
otassium 6010 ICP	mg/L		
Selenium	ug/L	50	5
Sodium GOIO ICP	mg/L		
hallium	ug/L	2	1
inc 6010 FCP	ug/L	5000	

(if needed = ICPMS)



# Sample Receipt Verification

Client: Sant	ee Cooper		Date eived:	8/24	4/22		Work Order:	22	H01276	
Carrier Name:	FedEx	Other:				Trac	cking Number: 8	153 67	791 4828	
Receipt Crite	eria			Yes	No	NA		Com	ıments	
Shipping conta	iner / cooler intact?			~			Damaged Leak	ing _	Other:	
Custody seals i	ntact?					>				
COC included	with samples?			~						
COC signed w	hen relinquished and recei	ved?		~						
Sample bottles	intact?			<b>/</b>			Damaged Leak	ing	Other:	
Sample ID on 0	COC agree with label on b	oottle(s)?		~						
Date / time on	COC agree with label on l	oottle(s)?		<b>/</b>						
Number of bott	tles on COC agrees with n	umber of bottles rece	ived?							
Samples receiv	red within holding time?									
Sample volume	e sufficient for analysis?			~						
VOA vials free	of headspace (<6mm bub	ble)?				>				
Samples cooled	Temp at receipt record Temp measured with I	ed on COC R thermometer - SN: 9705	0067	<b>\</b>			Ice Cold Pac	ks	Dry Ice	None
	ing pH preservation at profor metals analysis may be prese		b.	<b>\</b>						
	orinated for parameters rec					<b>&gt;</b>				
		If in-house pres	servation	used	. – rec	ord I	 Lot#			
HCL		_	H <sub>3</sub> P	<b>PO</b> 4						
H <sub>2</sub> SO <sub>4</sub>			Na(	HC						
HNO <sub>3</sub>			Oth	ner						
Comments:										
***		1 1 1 1 1	NI 2						<u> </u>	
	nformance issues noted ince issue other than noted		NO							

Completed by: KAB











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

gel.com

August 08, 2022

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

Re: ABS Lab Analytical Work Order: 585771

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 12, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 585771 GEL Work Order, 585771

### 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.

	Inlie	Roberson	
Reviewed by			

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

**Certificate of Analysis** 

Report Date: August 8, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38184 Sample ID: 585771001 Matrix: Ground Water Collect Date: 07-JUL-22 13:44 Receive Date: 12-JUL-22

Collector: Client

Project:	SOOP00119
Client ID:	SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Ana	lyst Date	Time	e Batch	Method
Rad Gas Flow Propor	rtional Counting	5										2
GFPC, Ra228, Liquio	d "As Received"											
Radium-228		3.93	+/-2.02	3.03	3.00	pCi/L		JXC9	08/02/22	1003	2289016	1
Radium-226+Radium	1-228 Calculatio	n "See P	arent Products"									
Radium-226+228 Sum		9.97	+/-2.20			pCi/L		1 TON	1 08/05/22	1043	2289015	2
Rad Radium-226												
Lucas Cell, Ra226, L	iquid "As Recei	ved"										
Radium-226		6.04	+/-0.857	0.297	1.00	pCi/L		LXP	08/02/22	1052	2288998	3
The following Analy	tical Methods w	ere perfe	ormed:									
Method	Description					N	Analy:	st Commer	nts			
1	EPA 904.0/SW	/846 9320	Modified									
2	Coloulation											

Calculation 2 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 56.9 (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 20 SDG: 585771

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 8, 2022

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: AF38190
Sample ID: 585771002
Matrix: Ground Water
Collect Date: 06-JUL-22 10:23

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		3.79	+/-1.54	1.98	3.00	pCi/L		JXC9	08/02/22	1003 2289016	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		4.39	+/-1.57			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.596	+/-0.284	0.333	1.00	pCi/L		LXP1	08/02/22	1052 2288998	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

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

56.3 (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 4 of 20 SDG: 585771

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

**Certificate of Analysis** 

Report Date: August 8, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38156
Sample ID: 585771003
Matrix: Ground Water
Collect Date: 06-JUL-22 11:37
Receive Date: 12-JUL-22

Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	rst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5									
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		3.17	+/-1.74	2.62	3.00	pCi/L		JXC9	08/02/22	1003 2289016	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		5.04	+/-1.81			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		1.87	+/-0.479	0.323	1.00	pCi/L		LXP1	08/02/22	1052 2288998	3
The following Analytic	cal Methods w	ere perfo	rmed:								

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

2 Calculation 3 EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

60.1 (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 5 of 20 SDG: 585771

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 8, 2022

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: AF38168
Sample ID: 585771004
Matrix: Ground Water
Collect Date: 06-JUL-22 14:06

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228		2.85	+/-1.55	2.28	3.00	pCi/L		JXC9	08/02/22	1003 2289016	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		4.26	+/-1.60			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		1.41	+/-0.361	0.244	1.00	pCi/L		LXP1	08/02/22	1052 2288998	3
The following Analytic	al Methods w	ere perfo	rmed:								

	ED 4 004 0/01/1046 0200 M - 4:6: - 4	*
Method	Description	Analyst Comments

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"

57.9 (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 6 of 20 SDG: 585771

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**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: August 8, 2022

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: AF38169
Sample ID: 585771005
Matrix: Ground Water
Collect Date: 06-JUL-22 14:11

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										3.
GFPC, Ra228, Liquid "	As Received"										
Radium-228		2.98	+/-1.59	2.30	3.00	pCi/L		JXC9	08/02/22	1003 2289016	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		4.12	+/-1.63			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		1.14	+/-0.343	0.198	1.00	pCi/L		LXP1	08/02/22	1052 2288998	3
The following Analytic	cal Methods w	ere perfo	ormed:								

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"

55.9 (15%-125%)

#### Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

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

**Certificate of Analysis** 

Report Date: August 8, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38199
Sample ID: 585771006
Matrix: Ground Water
Collect Date: 07-JUL-22 11:37

Receive Date: 12-JUL-22 Collector: Client Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.589	+/-1.50	2.70	3.00	pCi/L		JXC9	08/02/22	1130 2289016	1
Radium-226+Radium-23	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		1.15	+/-1.52			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		0.562	+/-0.283	0.330	1.00	pCi/L		LXP1	08/02/22	1052 2288998	3
The following Analytic	al Methods w	ere perfo	ormed:								

_	2	
Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	<del>-</del>
2	Calculation	

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

53.8 (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

Page 8 of 20 SDG: 585771

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 8, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38198 Sample ID: 585771007 Matrix: Ground Water Collect Date: 07-JUL-22 12:37

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propo	ortional Counting	5									
GFPC, Ra228, Liqu	id "As Received"										
Radium-228		3.35	+/-1.20	1.51	3.00	pCi/L		JXC9	08/02/22	1003 2289016	1
Radium-226+Radiu	m-228 Calculatio	n "See Pa	rent Products"			P - 77.20000 (CW)					
Radium-226+228 Sum		4.65	+/-1.25			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226,	Liquid "As Recei	ved"									
Radium-226		1.29	+/-0.371	0.275	1.00	pCi/L		LXP1	08/02/22	1052 2288998	3
The following Anal	lytical Methods w	vere perfo	rmed:								
Method	Description	<b>1</b>				98	Analy	st Commen	· q		

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	<del>.</del>
2	Calculation	

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 81.8 (15%-125%)

Notes:

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

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: August 8, 2022

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: AF38180
Sample ID: 585771008
Matrix: Ground Water
Collect Date: 07-JUL-22 14:43

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result 1	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	7									
GFPC, Ra228, Liquid	l "As Received"	Į.									
Radium-228		3.18	+/-1.28	1.81	3.00	pCi/L		JXC9	08/02/22	1003 2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		3.91	+/-1.31			pCi/L		1 TON1	08/05/22	1043 2289015	2
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Recei	ved"									
Radium-226		0.732	+/-0.298	0.224	1.00	pCi/L		LXP1	08/02/22	1124 2288998	3
The following Analyt	tical Methods v	vere perfor	med:								

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"

92 (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:

**Certificate of Analysis** 

Report Date: August 8, 2022

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: AF38157
Sample ID: 585771009
Matrix: Ground Water
Collect Date: 06-JUL-22 12:51
Receive Date: 12-JUL-22

nte: 12-JUL-22 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	1.34	+/-1.00	1.59	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"										
Radium-226+228 Sum		3.04	+/-1.09			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"											
Radium-226		1.70	+/-0.422	0.277	1.00	pCi/L			LXP1	08/02/22	1124	2288998	3
The following Analytic	al Methods w	ere perfo	ormed:										
Method	Description					1	Analys	st Co	mment	S			

Method	Description	
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	

Calculation
EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

93.8 (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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**QC Summary** 

Report Date: August 8, 2022

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 585771

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range An	ılst	Date Tim	1e
Rad Gas Flow Batch 2289016 —											
QC1205137966 585771001 DUP Radium-228	Uncertainty	3.93 +/-2.02		3.58 +/-1.39	pCi/L	9.32		(0% - 100%) J	XC9	08/02/22 10	:04
QC1205137967 LCS Radium-228	44.8 Uncertainty			41.8 +/-3.08	pCi/L		93.4	(75%-125%)		08/02/22 10	:04
QC1205137965 MB Radium-228	Uncertainty		U	0.898 +/-0.791	pCi/L					08/02/22 10	:04
Rad Ra-226 Batch 2288998 ——											
QC1205137937 585771001 DUP Radium-226	Uncertainty	6.04 +/-0.857		7.24 +/-0.851	pCi/L	17.9		(0%-20%) L	XP1	08/02/22 11	:24
QC1205137939 LCS Radium-226	26.5 Uncertainty			21.5 +/-1.51	pCi/L		81.1	(75%-125%)		08/02/22 11	:24
QC1205137936 MB Radium-226	Uncertainty		U	0.208 +/-0.226	pCi/L					08/02/22 11	:24
QC1205137938 585771001 MS Radium-226	129 Uncertainty	6.04 +/-0.857		120 +/-7.89	pCi/L		88.1	(75%-125%)		08/02/22 11	:24

#### Notes:

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

The Qualifiers in this report are defined as follows:

\*\* Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

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

FA Failed analysis.

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## **QC** Summary

Page 2 of 2 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Η Analytical holding time was exceeded J See case narrative for an explanation Value is estimated K Analyte present. Reported value may be biased high. Actual value is expected to be lower.

Μ M if above MDC and less than LLD

585771

- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative

Workorder:

L

- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- One or more quality control criteria have not been met. Refer to the applicable narrative or DER. Q

Analyte present. Reported value may be biased low. Actual value is expected to be higher.

- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- Gamma Spectroscopy--Uncertain identification UJ
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- Λ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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

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

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

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

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

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### Radiochemistry Technical Case Narrative Santee Cooper SDG #: 585771

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

Analytical Method: Calculation

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

**Analytical Batch:** 2289015

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

<b>GEL Sample ID#</b>	Client Sample Identification
585771001	AF38184
585771002	AF38190
585771003	AF38156
585771004	AF38168
585771005	AF38169
585771006	AF38199
585771007	AF38198
585771008	AF38180
585771009	AF38157

### **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: 2289016

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

<b>GEL Sample ID#</b>	Client Sample Identification
585771001	AF38184
585771002	AF38190
585771003	AF38156
585771004	AF38168
585771005	AF38169
585771006	AF38199
585771007	AF38198
585771008	AF38180
585771009	AF38157
1205137965	Method Blank (MB)
1205137966	585771001(AF38184) Sample Duplicate (DUP)

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1205137967

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 585771006 (AF38199) was recounted due to high MDC. The recount is reported.

Product: Lucas Cell, Ra226, Liquid Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2288998

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

GEL Sample ID#	<b>Client Sample Identification</b>
585771001	AF38184
585771002	AF38190
585771003	AF38156
585771004	AF38168
585771005	AF38169
585771006	AF38199
585771007	AF38198
585771008	AF38180
585771009	AF38157
1205137936	Method Blank (MB)
1205137937	585771001(AF38184) Sample Duplicate (DUP)
1205137938	585771001(AF38184) Matrix Spike (MS)
1205137939	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, 1205137938 (AF38184MS), 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**

58577 |-RAD 585768-Hg "



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				QC	
LCWILLIA		_@santeeco	oper.com					125	115	<u> </u>	02.0	7. 691.1	1_36500_	Yes	No	1		
														- The same	A	nalysis	Grou	2
Labworks ID # (Internal use only)		mple Location, scription		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)	Repo	Comments nod # orting limit c. sample info other notes		RAD 226/228	TOTAL PRO CALC.	£	
AF39184	- W/	+P-22.		7/7/22	Hiel	DEW	3	Þ	G	GW	2				2	×	L	
AF 38190	Wi	8w-1		7/6/22	1023	1	1		1		1					Q-	1	
AF 38156		4P-1		1	1137													
		NP-12		T/G/22	1406													
AF38168				1	1411	Ш										+	1	
YE38164	- W	AP-12 DUP			1411													
		<u>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>												in the second				
							<del> </del>	ļ		<del>                                     </del>					SaN			
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							-			-								
· · · · · · · · · · · · · · · · · · ·				<u> </u>						<u> </u>								
Relinquishe	d by:	Employee#	Date	Time	Recei	ved by:	E	mployee	2#	Date	2	Time	Sample Receivi TEMP (°C):		<i>Jse Or</i> Initia			
Albroan		35574	7/12/22	1055	R.S.	-th	-	GEL	-	7/12/	22	1055						
Relinquishe	d by:	Employee#	Date	Time	Recei	ved by:	E	mployee	:#	Date	e	Time	Correct pH:					
P.CA	2		7/12/27	1522	SIRI		(	CEL	- 5	7/12	122	1527	Preservative I	.ot#:				
Relinquishe	d by:	Employee#	Date	Time	Recei	ved by:	E	mployee	2#	Date	е	Time						
													Date/Time/Ini	t for preserv	ative:			
	META	ALS (all )	Nice	rients	R/II	ISC.		G	ypsu	m		Coal	Eli	yash		Oi	1	
□ Ag	□ Cu	□Sъ			BTEX	<u>130.</u>		<u>≃</u> Wallb			1.	Ultimate		monia	() Tri		≛ II Qua	l.
	□ Fe	☐ Se	OD0	)C	□ Naptha			Gyj	psum(	all -		□ % Mois	ture [] LO			%Moi: 'olor	sture	
	□K	□ Sn	□ TP □ NI	/TPO4	☐ THM/E	1AA		belo O-A				□ Ash □ Sulfur	□ % C □ Mir	arbon	137	cidity		
□В	□ <b>Li</b>	□ Sr		13-IV	□ Oil & C			OT	oc .					Analysis	0.0 11.1		e Stren	gih
□ Ba	□ Mg	□Ti	dCI		□ E. Coli □ Total C				otal me oluble N			□ Volatile			()1	Dissolv	ed Ga	SCS
□ Be	□Mn	□ TI	□ NO □ Br		□ pH □ Dissolv	rad An		□Pi	arity (C	aSO4)		□ CHN Other Tests:		/loisture		ed Oi lashpe		
□ Ca	□Мо	ΠV	UBI	CONTRACTOR OF THE PROPERTY OF	□ Dissolv	ed Fe			, Moiste alfites	it.c	a d	XRF Scan	\$ 35 A S S S S S S S S S S S S S S S S S S	DES	(3) <b>)</b>	4etals	in oil	
□ Cd	□ Na	□ Zn	:2.80	BEST LESS SANTENZAN COMMONICATION	☐ Rad 22 ☐ Rad 22			( pl	H hloride			HGI Fineness		€ Grease		As,Co lg)	I,Cr.N	,rn
□Со	□ Ni	□ Hg			□ Rau 22 □ PCB	·		⊕ Pi	article S		ODDERSON DESCRIPTION	Particulate M	latter El As		12.1			
□ Cr	□ Pb	☐ CrVI						□ Sulfu	r				1,00		LJ1			

# **Chain of Custody**



Customer	ustomer Email/Report Recipient:		Date Results Needed by:					Pr	oject/	Task/l	Rerun reque	Rerun request for any flagged QC					
LCWIL	LIA	@santeec	ooper.com					125	715	J_JM	02.0	8. GØ1. I	/_36500	No			
														1	Analysi	s Grou	P
Labworks (Internal us		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	Misc	Comments od # orting limit . sample info other notes	RAD 226/228	TOTAL RAD CALC	与	
AF3819	9	WLF - A2 - 2	•	7/7/22	1137	DEW	3	P	G	Gw	2.			2	×		
AF 38 19	81	WLF- A2-1		-	1237		1			1					***************************************	1	
<del>4</del> F3818	0	WAP-18			(443												
AF3815	7	WAP-2		7/6/22	1251	1		1		1				1	<u>                                     </u>	<u></u>	
<del></del>															-		
<del></del>																	
			***************************************														
		2															
Relinquis	hed by:	Employee#	Date	Time	Recei	ved by:		mployee	#	Date	3	Time	Sample Receiving (Intern				
Relinquis  Relinquis  Relinquis	ihed by: #	35594 Employee# Employee#	7/12/22 Date 7/12/22 Date	1527 Time	9th	wed by:	(	GEL Employee 3EL Employee	# -	7/12/2 Date 7/12 Date	192	1055 Time 1527 Time	Correct pH: Yes Preservative Lot#:	No			
	- <b>1</b>												Date/Time/Init for pres	ervative:	ALC: NO		
□ Ag □ Cu □ Sb □ TC □ Al □ Fe □ Se □ DO		DC /TPO4 13-N D2	MI  BTEX Napthal THM/H VOC Oil & C E Coli Total C pH Dissolv Rad 22c Rad 22c	IAA Grease oliform ed As ed Fe 6		Usualib Gyp beld U A U To U To U So U Pu U % U So U D So U D So U D So U D So U D So U D So U D So U D So U D So U D So U D D So U D D D D D D D D D D D D D D D D D D D	osum(no) IM DC otal met oluble M ority (Ca Moistu ulfites I nlorides oricle S	alls lotals aSO4) re	000000000000000000000000000000000000000	Coal Ultimate  % Moist Ash Sulfur BTUs Volatile CHN Other Tests: XRF Scan HGI Fineness Particulate Ma	Matter    Wearbon     Mineral     Analysis     Sieve     Wearbon     Analysis     Analysis     Moisture     MPDES     Oil & Grease		%Moi Color Acidity Dielectr IFT Dissolv sett O Flashp Metals	il Qua sture le Stren ved Ga il oint in oil I.Cr.N	gth SC4		

-	GEL Laboratories LL	0			SAMPLE RECEIPT & REVIEW FORM SP
Clie	ent:			SD	G/AR/COC/Work Order: 585711\ 585768
Rec	ceived By: MVH			$\top$	ite Received: ) \2 2022
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Sus	pected Hazard Information	Yes	S.	*It	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)S	hipped as a DOT Hazardous?		X	Ha	zard Class Shipped:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
	Did the client designate the samples are t ived as radioactive?	o be			C notation or radioactive stickers on containers equal client designation.
	Did the RSO classify the samples as oactive?		7	M	aximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) I	Did the client designate samples are haza	rdous?	M	<u> </u>	C notation or hazard labels on containers equal client designation.  D or E is yes, select Hazards below.
E) [	Did the RSO identify possible hazards?			1	PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	Z	ž	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact scaled?	and X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents includ- with shipment?	ed X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservatio within $(0 \le 6 \text{ deg. C})$ ?*	n	X		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius  TEMP:
4	Daily check performed and passed temperature gun?	on IR			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed	1? X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservat proper pH?	ation X			Sample ID's and Containers Affected:  If Preservation added, Lot#:
				N	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)
7	Do any samples require Volati Analysis?	e		$ \rangle$	Are liquid VOA vials free of headspace? YesNoNA(If dishlown, select NO)  Sample ID's and containers affected:
8	Samples received within holding ti	ne?			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & on bottles?	time			Circle Applicable: No dates on containers  No times on containers  COC missing info  Other (describe)
11	Number of containers received mat number indicated on COC?		į		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable GEL provided by use of GEL label			$\lambda$	
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)
Con	nments (Use Continuation Form if needs	d):			

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 08 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
	T104704235-22-20
TEXAS INFLAP	
Texas NELAP Utah NELAP	SC000122021-36
Utah NELAP	SC000122021-36 VT87156
	SC000122021-36 VT87156 460202











PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843 556.8171

gel.com

F 843,766,1178

July 20, 2022

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

Re: ABS Lab Analytical Work Order: 585768

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 12, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 585768 GEL Work Order, 585768

# 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.

	Inlie	Robinson	
Revie wed by		Constitution Constitution and Texas	

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38184
Sample ID: 585768001
Matrix: Ground Water
Collect Date: 07-JUL-22 13:44

Receive Date: 12-JUL-22 Collector: Client

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

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/14/22 1145 2288960 1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958
701 C 11 ' 1 1	22 1 3 C 21 1 C 1				

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 3 of 18 SDG: 585768

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38190 Sample ID: 585768002 Matrix: Ground Water Collect Date: 06-JUL-22 10:23

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	D	L RL	Units	PF	DF Analyst Date	Time Batch Method
Mercury Analysis	s-CVAA							3
7470 Cold Vapor	Mercury, Liquid "A	As Received"						

U 0.0670 0.200 07/14/22 1147 2288960 Mercury ug/L 1.00 1 JP2

The following Prep Methods were performed:

Prep Batch Method Date Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/13/22 2288958 RM4 1401

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 18 SDG: 585768

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38156 Sample ID: 585768003 Matrix: Ground Water Collect Date: 06-JUL-22 11:37

Receive Date: 12-JUL-22 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Meth	ıod
Mercury Analysis	-CVAA								

7470 Cold Vapor Mercury, Liquid "As Received"

ND 0.0670 0.200 07/14/22 1148 2288960 ug/L 1.00 1 JP2

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/13/22 2288958 RM4 1401

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 5 of 18 SDG: 585768

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 20, 2022

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: AF38168
Sample ID: 585768004
Matrix: Ground Water
Collect Date: 06-JUL-22 14:06

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	ılyst Date	Time	Batch	Method
Mercury Analysis-C	VAA								0=3A			
7470 Cold Vapor Me	ercury, Liquid "A	As Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1150	2288960	1
The following Prep 1	Methods were pe	erformed:										
Method	Description	1		Analyst	Date		Tim	e	Prep Batch	K.		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/13/22		1401		2288958			
The following Analy	ztical Methods v	vere performed:										

The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38169
Sample ID: 585768005
Matrix: Ground Water
Collect Date: 06-JUL-22 14:11

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
A second	En contraction and a							

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/14/22 1152 2288960

The following Prep Methods were performed:

Method Description Analyst Date Time Prep Batch
SW846 7470A Prep EPA 7470A Mercury Prep Liquid RM4 07/13/22 1401 2288958

The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 7 of 18 SDG: 585768

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38199 Sample ID: 585768006 Matrix: Ground Water 07-JUL-22 11:37 Collect Date:

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time	e Batch	Method
Mercury Analysis-C	VAA											3.
7470 Cold Vapor Me	ercury, Liquid "A	s Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1154	2288960	1
The following Prep 1	Methods were pe	rformed:										
Method	Description	U .		Analyst	Date	<b>r</b> 0	Time	e 1	Prep Batch	ß.		
SW846 7470 A Prep	EPA 7470A N	fercury Pren Liquid		RM4	07/13/22	1	1401	,	228958			

EPA 7470A Mercury Prep Liquid

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 8 of 18 SDG: 585768

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 20, 2022

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: AF38198 Sample ID: 585768007 Matrix: Ground Water 07-JUL-22 12:37 Collect Date:

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Mercury Analysis-C	VAA									
7470 Cold Vapor Me	ercury, Liquid "A	As Received"								
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2 07/14/22	1159 2288960	1
The following Prep I	Methods were pe	erformed:								
Method	Description	1		Analyst	Date	T	ime	Prep Batch	<u> </u>	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/13/22	1	401	2288958		

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 9 of 18 SDG: 585768

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38180
Sample ID: 585768008
Matrix: Ground Water
Collect Date: 07-JUL-22 14:43

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Mercury Analysis-CV	'AA									
7470 Cold Vapor Mer	cury, Liquid "A	As Received"								
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2 07/14/22	1201 2288960	) 1
The following Prep M	fethods were pe	erformed:								
Method	Description	1		Analyst	Date	T <sub>s</sub>	ime	Prep Batch	Ľ.	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/13/22	1	401	2288958		

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 10 of 18 SDG: 585768

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 20, 2022

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: AF38157
Sample ID: 585768009
Matrix: Ground Water
Collect Date: 06-JUL-22 12:51

Receive Date: 12-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	alyst Date	Time	Batch	Method
Mercury Analysis-C	VAA											3.
7470 Cold Vapor Me	rcury, Liquid "A	As Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1202	2288960	1
The following Prep N	Methods were pe	erformed:										
Method	Description	1		Analyst	Date		Time	е	Prep Batch	ß.		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/13/22		1401		2288958			
The following Analy	The following Analytical Methods were performed:											

Method Description Analyst Comments

SW846 7470A

#### 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 11 of 18 SDG: 585768

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

**QC** Summary

Timita

DDD0/

Commis Oval

Report Date: July 20, 2022

DEC0/

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

NOM

Contact: M

Danmanana

Ms. Jeanette Gilmetti

Workorder: 585768

Parmname		NO	M	Sample	Qual	QC	Units	RPD%	REC%	Kange	Anist	Date Ti	ne
Metals Analysis-Mer Batch 228	r <b>cury</b> 88960 ———												
QC1205137840 Mercury	583678006 DUP		U	ND	U	ND	ug/L	N/A			JP2	07/14/22 1	1:12
QC1205137839 Mercury	LCS	2.00				2.05	ug/L		103	(80%-120%)	)	07/14/22 1	1:09
QC1205137838 Mercury	МВ				U	ND	ug/L					07/14/22 1	1:07
QC1205137841 Mercury	583678006 MS	2.00	U	ND		2.00	ug/L		99.7	(75%-125%)	)	07/14/22 1	1:14
QC1205137842 Mercury	583678006 SDILT		U	ND	U	ND	ug/L	N/A		(0%-10%)	)	07/14/22 1	1:15

#### Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

Page 12 of 18 SDG: 585768

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

# **QC** Summary

Workorder: 585768

Page 2 of 2

NOM Samula Ovel OG Units DRD% DECG/ Page And Data Time

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

- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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

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: 585768

<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 the 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.

# Metals Technical Case Narrative Santee Cooper SDG #: 585768

**Product:** Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

**Analytical Method:** SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

**Analytical Batch:** 2288960

**Preparation Method:** SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

**Preparation Batch:** 2288958

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

<b>GEL Sample ID#</b>	Client Sample Identification
585768001	AF38184
585768002	AF38190
585768003	AF38156
585768004	AF38168
585768005	AF38169
585768006	AF38199
585768007	AF38198
585768008	AF38180
585768009	AF38157
1205137838	Method Blank (MB)CVAA
1205137839	Laboratory Control Sample (LCS)
1205137842	583678006(NonSDGL) Serial Dilution (SD)
1205137840	583678006(NonSDGD) Sample Duplicate (DUP)
1205137841	583678006(NonSDGS) 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.

Page 14 of 18 SDG: 585768

**Customer Email/Report Recipient:** 

# **Chain of Custody**

Date Results Needed by:

585771-RAD 585768-Hg



Santec 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:					P	roject	/Task/	Unit #:	Rerun re	Rerun request for any flagged QC						
LOWIL	LIA	@	santee	cooper.com	· · · · · · · · · · · · · · · · · · ·	//		•	125	715	<u>/_J</u> ^	102.0	न. ७७१.	<u> 3€≥∞</u> (	Yes No	, o		
Labworks (Internal only)		Sampl Descri	e Locatio	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     Mississippi	Comments thod # porting limit c. sample info y other notes	1507417-05000-0500-0	Analys CALC.		
AF391	84	WAP.	-22		7/7/22	1344	DEW	3	   p	G	GW	2	1				1.	-
					1	1	bJ	H	1	٠	-				2	, S	<u> </u>	
AF 381	70	WBW	-1		7/6/22	1023	<del>                                     </del>	-				<del>                                     </del>					<u> </u>	
AF 38/5	56	WAP.	-1		Ţ	1137												
VE3816	, F	WAP-	12		7/6/22	1406										$\top$	H	
			****			1,7		H				H	<b> </b>			+	$\vdash$	
VE3816	.9	WAP-	-12 Dui	<b>**</b>	<u> </u>	[41]		<u>                                     </u>	1	<u>T</u>	<u> </u>	1			1		1	
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Relinqui		Em	ployee#	Date	Time	Receiv	4 /	Ei	nployee	#	Date		Time	Sample Receiving (Int TEMP (°C):				
Albroar			594	7/12/22	1055		th		GEL		1/12/		1055					_
Relinquis	shed by:	Em	ployee#	Date	Time	Receiv	ed by:		nployee		Date		Time	Correct pH: Yes	No			
K-5~	72 <u>-</u>			7/12/27	1522	TKK		3	كات	7	1121	22	1527	Preservative Lot#:				
Relinquis	shed by:	Em	ployee#	Date	Time	V Receiv	ed by:	Er	nployee	#	Date		Time					
													s profi	Date/Time/Init for pr	reservative			
		TALS		Nutr	ients	MIS	ic		Gv	psun	3		Coal	Flores		A:		
□ Ag □ Al	□ Cu		□ Sb □ Se	— Птос		□ BTEX		10	Wallbo	ALC: WITH THE REAL PROPERTY.	•	1 6	<u>Coar</u> Ultimate	Flyash E Anunonia	Th.	<u>Oi</u> ans. Oi		
□ As	□K	speniasonasti se	□ Sn	0 DO		☐ Napthale ☐ THM/HA				ium(ai	4		□ % Moist	are [7/mm/c/mi	- D	%Mois	ture	
□ <b>B</b>	□Li		□ Sr	L) TP/		□ VOC			belor U All			1	☐ Ash ☐ Sulfur	El % Carbon		Color Acidity		
□ Ba			□ <b>Ti</b>	— OF		□ Oil & Gr □ E. Coli	ease		□то		14,			☐ Mineral Analysi		Pielectric PT	Streng	th
□Be			□ TI	U CI		☐ Total Col	iform			al metal ible Me			□ Volatile	Matter     Sieve	- 1	Dissolv		ies
				—   Br		□ pH □ Dissolved	l As			ty (Cas			□ CHN her Tests:	□ % Moistur		ed Oi		
□ Ca	□ Mo		□ <b>V</b>	UNO:		☐ Dissolved			() Sulf	loisturi Ites		\$200 CONTRACTORS	CRF Scan	NPDES		lashpo Metals		
□ Cd	□ Na		□ Zn	□ SO4		☐ Rad 226 ☐ Rad 228			□ pH □ Chi	ariela.			IGI ineness	☐ Oil & Grease		(As.Cd. Hg)	Cr.Ni.	РЬ
□ Co □ Cr	□ Ni □ Pb		□ Hg			□ PCB			🗆 🗆 Part	andes iele Siz	e		meness articulate Ma	tter CAs	1 11	FΧ		
LI UI	I TIE	Į.	□ CrVI						Sulfur					TSS	G	)FER		

**Customer Email/Report Recipient:** 

# **Chain of Custody**

585711-RAD Santee Cooper One Riverwood Drive Moneks Corner, SC 29461

585768-H9 Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175 Project/Task/Unit #:

Santee cooper

Customer Email/Report Recipient:		Date Results Needed by:				Project/Task/Unit #:						Rerun request for any flagg			ngged Q		
LCW	JILLIA	@sante	ecooper.com	<del></del>	//		-	125	915	<u> </u>	102.0	08. GØ1	· <u>J</u> 365∞	(Yes)	No		
Biggings decorposes															£	nalysi	is Group
Labworl (Interna only)		Sample Local 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 below)	• M • Re • M • Ar	Comme ethod # porting limit isc. sample info by other notes		RAD 276/228	TOTAL RAD GALC	T
YE38	177	WLF - A-2-	2.	7/7/22	1137	DEN	3	P	G-	Gw	2.				2	У.	1
AF 381	178	WLF- A2-!			1237					1	ı		2	***************************************		1	7
4E381	80	WAP-18	***************************************		1443												
AF381	57	WAP- 2		7/6/22	1251		1	Ţ		1							1
			***************************************														
							***************************************										
		***************************************															
Relingu SHV9200	ished by:	Employee#		Time 1055	Receive		T	nployee		Date		Time	Sample Red TEMP (°C	ceiving (Internal U :I	se On! nitial:	y) 	
	ished by:	Employee#	7/12/22 Date	Time	Receive	4L ed by:		GEL nployee #		/12/2 Date	2.	1055 Time	Correct pl	H: Yes No			
1:5	H	-	7/12/2	1527	PATO	5		EL	7		22	1527	Preservati	ve Lot#:			
Relinqui	ished by:	Employee#	Date	Time	Receive	ed by:		nployee i	#	Date		Time					
	- <b></b>					Made and the second second				11.				/Init for preservat	ive:		
□Ag	□ IVIE	TALS (all)	- Nutr	<u>ients</u>	MIS	C.		Gyı	osum	1	1	Coal	100	Flyash		Oil	
□ AI	□ Fe				□ BTEX		II.	Wallbox	ard		lot	Jitimate			Tran	250 CO	Onal
□ As	Пκ	□Sn	DO(		□ Napthale: □ THM/HA				om( <i>ali</i>	1		□ % Moist		LOI	U %	Moish	
□ <b>B</b>			□ TP/1 □ NH3			.r.t		belon U AIN	TO KNOW WELL TO SERVE SERVER		THE PROPERTY OF THE	□ Ash	(1)	% Carbon	⊕ Co	THE STATE OF THE PARTY.	
		□ Sr	—— EF		Oil & Gre	ase		O TOO				□ Sulfur	[10]	Mineral	□ Ac □ Die		Strength
□ Ba			D CI		□ E. Coli □ Total Col:	iform			l metals			□ BTUs □ Volatile	Matter E	Analysis Sieve	OIF	•	
□ Be	□ Mn	ı 📗 🎞	□ NO2	[	∃pH				ble Met ty (CaSt	Province and the same		□ CHN		% Moisture	⊫ Dis Use∈		l Gases
□ Ca	□Mo	)   U V	□ Br		Dissolved			□ % M	loistare		Ott	ier Tests:				shpoin	n .
□ Cd	□Na	□ Zn	—— □ NO3 □ SO4		∃ Dissolved ∃ Rad 226	re		□ Sulfi □ pH	ites		∥ ⊕X □H	RF Scan		NPDES	□ Me	tals in	oil
□Со	□Ni	□ Hg		1	3 Rad 228			∪ pri □ Chlo	rides		© 8256N62D386N8	neness		oil & Grease	(A. Hg		r.Ni,Pb
□ Cr	□РЬ	□ CrVI		- 1	I PCB			🗆 Parti	cle Size			rticulate Ma			OTX		1.14
								Sulfur					137	33	GOF	ER	

	GEL   Laboratories LLC				SAMPLE RECEIPT & REVIEW FORM
C	ient:			SI	DC/AR/COC/Work Order: 585 771 \ 5857/68
Re	ceived By: MVH		~	Т	ate Received:
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Su	spected Hazard Information	Yes	S,	*I1	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)5	hipped as a DOT Hazardous?		X	Ha	zard Class Shipped:  UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) rece	Did the client designate the samples are to be ived as radioactive?		X	cc	OC notation or radioactive stickers on containers equal client designation.
	Did the RSO classify the samples as oactive?		X	Ma	eximum 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?		X		C notation or hazard labels on containers equal client designation.  For E is yes, select Hazards below.
E) J	Did the RSO identify possible hazards?		X		PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	NA.	2º	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*		X		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?	X			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			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:  If Preservation added, Lot#:
	D		į	1	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)
7	Do any samples require Volatile Analysis?			X	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?	$\overline{\chi}$	-		ID's and tests affected:
	Sample ID's on COC match ID's on bottles?	X	-		ID's and containers affected:
	Date & time on COC match date & time on bottles?	X			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?	X			Circle Applicable: No container count on COC Other (describe)
	Are sample containers identifiable as GEL provided by use of GEL labels?			X	
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)
'omi	nents (Use Continuation Form if needed):				

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 20 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
wasimigion	C/60











P 843.556.8171 F 843.766.1178

PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

gel.com

August 01, 2022

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

Re: ABS Lab Analytical Work Order: 587122

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 22, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 587122 GEL Work Order: 587122

# 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.

	Inlie	Roberson	
Reviewed by			

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 1, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

AF38171 Client Sample ID: Sample ID: 587122001 Matrix: Ground Water Collect Date: 20-JUL-22 14:12

Receive Date: 22-JUL-22 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Mercury Analysis	-CVAA								a.

7470 Cold Vapor Mercury, Liquid "As Received"

0.0670 0.200 07/26/22 1021 2293904 ug/L 1.00 1 JP2

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/25/22 2293901 RM4 1231

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 3 of 22 SDG: 587122

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 1, 2022

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: AF38172
Sample ID: 587122002
Matrix: Ground Water
Collect Date: 20-JUL-22 14:17

Receive Date: 22-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	An	alyst Date	Time Batch	Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	ercury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1022 2293904	1
The following Prep 1	Methods were pe	rformed:									
Method	Description	ı,		Analyst	Date	:	Tim	e	Prep Batch	Įž.	
SW846 7470A Prep	EPA 7470A N	1ercury Prep Liquid		RM4	07/25/22		1231		2293901		
The following Analy	ytical Methods w	vere performed:									

The following Analytical intentions were performed.

MethodDescriptionAnalyst Comments1SW846 7470A

# Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 22 SDG: 587122

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

**Certificate of Analysis** 

Report Date: August 1, 2022

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: Sample ID:

AF38173 587122003

Matrix: Collect Date: Receive Date:

Collector:

Ground Water 20-JUL-22 11:00 22-JUL-22 Client

Project: Client ID:

PF

SOOP00119

SOOP001

DF Analyst Date

Parameter

**Oualifier** Result

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury

0.0670

DL

0.200

RL

ug/L

Units

1.00 1 JP2

Time

1231

Prep Batch

2293901

07/26/22 1028 2293904

Time Batch Method

The following Prep Methods were performed:

Method

Analyst

Date 07/25/22

Description SW846 7470A Prep EPA 7470A Mercury Prep Liquid RM4

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

# Notes:

Column headers are defined as follows:

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

MDA. Minimum Detectable Activity MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

Page 5 of 22 SDG: 587122

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

**Certificate of Analysis** 

Report Date: August 1, 2022

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: AF38174 Sample ID:

587122004

Matrix: Collect Date: Ground Water 20-JUL-22 12:20 22-JUL-22

Project: Client ID:

Analyst Comments

SOOP00119 SOOP001

Receive Date: Collector:

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	alyst Date	Time Bato	h Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	ercury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1029 22939	04 1
The following Prep I	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Tim	e	Prep Batch	žķ.	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/25/22		1231		2293901		
The following Analy	ztical Methods v	vere performed:									

Description Method

SW846 7470A

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 6 of 22 SDG: 587122

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**Certificate of Analysis** 

Report Date: August 1, 2022

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: Sample ID:

AF38175 587122005

Matrix: Collect Date: Ground Water 20-JUL-22 13:17 22-JUL-22

Project: Client ID: SOOP00119

SOOP001

Analyst Comments

Receive Date: Collector:

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
Mercury Analysis	-CVAA							3
7470 Cold Vapor	Mercury, Liquid "A	As Received"						

U

Mercury

ND 0.0670 0.200 07/26/22 1031 2293904 ug/L 1.00 1 JP2

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/25/22 2293901 RM4 1231

The following Analytical Methods were performed:

Method Description

SW846 7470A

Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 7 of 22 SDG: 587122

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**Certificate of Analysis** 

Report Date: August 1, 2022

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: Sample ID:

AF38170 587122006

Matrix: Collect Date: Ground Water 18-JUL-22 13:12 22-JUL-22 Client

Project: Client ID: SOOP00119

SOOP001

Receive Date:

Collector:

Parameter **Oualifier** Result DLRLUnits PF DF Analyst Date Time Batch Method

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury

0.0670

0.200

Analyst

RM4

ug/L

Date

07/25/22

1.00 1 JP2

Time

1231

07/26/22 1033 2293904

Prep Batch

2293901

The following Prep Methods were performed: Method

Description SW846 7470A Prep EPA 7470A Mercury Prep Liquid

The following Analytical Methods were performed: Method Description

SW846 7470A

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

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

Page 8 of 22 SDG: 587122

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: August 1, 2022

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: AF38176 Sample ID: 587122007 Matrix: Ground Water 18-JUL-22 14:30 Collect Date:

Receive Date: 22-JUL-22 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	` Ana	alyst Date	Time Batch	Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	ercury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1035 2293904	1
The following Prep N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Tim	e	Prep Batch	Ķ.	
SW846 7470A Prep	EPA 7470A I	Mercury Prep Liquid		RM4	07/25/22		1231		2293901		

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 9 of 22 SDG: 587122

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

**Certificate of Analysis** 

Report Date: August 1, 2022

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: Sample ID:

AF38183 587122008

Matrix: Collect Date: Ground Water 14-JUL-22 10:45 22-JUL-22

Project: Client ID: SOOP00119 SOOP001

Receive Date: Collector:

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Mercury Analysis-	·CVAA									
7470 Cold Vapor 1	Mercury, Liquid "A	As Received"								
THE STREET CONTROL OF THE STREET CONTROL OF	T.T.	N. TEN	0.0650	0.000	0.000	1 0	1 700	05/06/00	1006 000000	100

Mercury

ND 0.0670 0.200 ug/L 07/26/22 1036 2293904

Analyst Comments

The following Prep Methods were performed:

Method Prep Batch Date Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/25/22 2293901 RM4 1231

The following Analytical Methods were performed:

Method Description

SW846 7470A

Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 10 of 22 SDG: 587122

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**Certificate of Analysis** 

Report Date: August 1, 2022

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: Sample ID:

AF38177 587122009

Matrix: Collect Date: Receive Date:

Collector:

Ground Water 14-JUL-22 12:48 22-JUL-22 Client

Project:

SOOP00119

DF Analyst Date

2293901

Client ID: SOOP001

Parameter **Oualifier** Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury

Result

0.0670

DL

0.200

RL

Units

ug/L

07/25/22

PF

1.00 1 JP2

07/26/22 1038 2293904

Time Batch Method

The following Prep Methods were performed: Description

Method SW846 7470A Prep

EPA 7470A Mercury Prep Liquid

Analyst RM4

Date

Time

Prep Batch

The following Analytical Methods were performed:

Method

Description SW846 7470A Analyst Comments

1231

# 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 11 of 22 SDG: 587122

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

**Certificate of Analysis** 

Report Date: August 1, 2022

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Matrix:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: AF38158 Sample ID:

587122010

Collect Date: Receive Date:

Collector:

Ground Water 18-JUL-22 12:01 22-JUL-22 Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Mercury Analysis	-CVAA									3
7470 Cold Vapor	Mercury, Liquid "A	As Received"								
Mercury	TI	ND	0.0670	0.200	119/1.	1.00	0 1 JP2	07/26/22	1040 2293904	. 1

Date

07/25/22

Time

1231

Prep Batch

2293901

The following Prep Methods were performed:

Method Description Analyst SW846 7470A Prep EPA 7470A Mercury Prep Liquid RM4

The following Analytical Methods were performed: Method Description

Analyst Comments

SW846 7470A

# Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

Page 12 of 22 SDG: 587122

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: August 1, 2022

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: AF38159
Sample ID: 587122011
Matrix: Ground Water
Collect Date: 18-JUL-22 15:22

Receive Date: 22-JUL-22 Collector: Client

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

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/26/22 1042 2293904 1

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchSW846 7470A PrepEPA 7470A Mercury Prep LiquidRM407/25/2212312293901

The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 SW846 7470A

Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 13 of 22 SDG: 587122

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 1, 2022

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: AF38200
Sample ID: 587122012
Matrix: Ground Water
Collect Date: 14-JUL-22 11:50

Receive Date: 22-JUL-22 Collector: Client

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

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/26/22 1043 2293904 1

The following Prep Methods were performed:

Method Description Analyst Date Time Prep Batch
SW846 7470A Prep EPA 7470A Mercury Prep Liquid RM4 07/25/22 1231 2293901

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

**QC Summary** 

Timita

DDD0/

Commis Oval

Report Date: August 1, 2022

DEC0/

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

NOM

Contact:

Danmanana

Ms. Jeanette Gilmetti

Workorder: 587122

Parmname		NOI	M	Sample	Qual	QC	Units	RPD%	REC%	Kange	Anist	Date Time
Metals Analysis-Mercury Batch 2293904	3)											
QC1205147129 58546600 Mercury	I DUP		U	ND	U	ND	ug/L	N/A			JP2	07/26/22 09:5
QC1205147128 LCS Mercury		2.00				2.12	ug/L		106	(80%-120%)		07/26/22 09:5
QC1205147127 MB Mercury					U	ND	ug/L					07/26/22 09:5
QC1205147130 58546600 Mercury	1 MS	2.00	U	ND		2.14	ug/L		107	(75%-125%)		07/26/22 10:0
QC1205147131 58546600 Mercury	1 SDILT		U	ND	U	ND	ug/L	N/A		(0%-10%)		07/26/22 10:0

#### Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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## **QC** Summary

Workorder: 587122

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

- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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

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 the 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.

#### Metals Technical Case Narrative Santee Cooper SDG #: 587122

**Product:** Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

**Analytical Method:** SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2293904

**Preparation Method:** SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2293901

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

GEL Sample ID#	Client Sample Identification
587122001	AF38171
587122002	AF38172
587122003	AF38173
587122004	AF38174
587122005	AF38175
587122006	AF38170
587122007	AF38176
587122008	AF38183
587122009	AF38177
587122010	AF38158
587122011	AF38159
587122012	AF38200
1205147127	Method Blank (MB)CVAA
1205147128	Laboratory Control Sample (LCS)
1205147131	585466001(NonSDGL) Serial Dilution (SD)
1205147129	585466001(NonSDGD) Sample Duplicate (DUP)
1205147130	585466001(NonSDGS) 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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**Customer Email/Report Recipient:** 

# **Chain of Custody**



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

587/22/587123

Date Results Needed by:

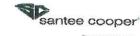
Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com \_\_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_

				S									<i></i>	163	140			
															A	nalysis	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	Rep     Mis	chod # corting lir c. sample other no	e info	RAD 224/228	TOTAL RAD CALC	五	
AF381	58	WAP-3		7/18/22	1201	DEW	3	P	6	GW	2	Hg-747	OR	L= 0.200 PPB	2	×	1	
AF 38 15	59	WAP-4		1	1522	1	3	1	T	1	1				2	×	1	
			10-10-10-10-10-10-10-10-10-10-10-10-10-1															_
														TT				
Relingu	ished by:	Employee#	Date	Time	Receiv	ed by:	l Emi	ployee#		Date		Time	Samp	le Receiving (Internal	Use On	ly)	1	
Samoi		35594	7/22/22	1105	M. De			GEL.		22/2	2	1105	TEM	P (°C):	Initial			
V	ished by:	Employee#	Date	Time		ed by:		ployee #		Date		Time	Corre	ect pH: Yes No				
									100				Prese	rvative Lot#:				
Relinqui	ished by:	Employee#	Date	Time	Receiv	ed by:	Emp	ployee #	2 (9)	Date	50 F X	Time						
	3 6 4 3 2 1 2 2												Date/	Time/Init for preserv	ative:			
	□ MET	'ALS (all)	Nut	trients	DAIG	C		Gyn	sum			Cool		HANGE THE REST	1000	011		-
□Ag	□ Cu	□Sb	I TO		MIS BTEX	<u>,</u>	П	Vallboa			П	Coal Ultimate		Flyash Ammonia	□ Trai	Oil		
	□ Fe	□ Se		OC	□ Napthale			Gypsi	um(al	I		☐ % Moist	ure	☐ Ammonia ☐ LOI	II %	Moist	ure	
□ As	O K	□ Sn		P/TPO4 H3-N	□ THM/HA □ VOC			below,				□ Ash		☐ % Carbon		olor cidity		
□ B	□ Li	□ Sr	UF		□ Oil & Gr □ E. Coli	ease		DTOC				☐ Sulfur ☐ BTUs		☐ Mineral  Analysis		electric t	Strength	
□ Ba	□Mg	O Ti			☐ Total Co	liform		☐ Total ☐ Solut	ble Me	tals		□ Volatile	Matter	☐ Sieve	□ D	issolve	d Gases	
□ Be	☐ Mn	□ T1			□ pH □ Dissolve	d As	1	□ Purit			Of	□ CHN ther Tests:		☐ % Moisture		d Oil ashpoir		
□ Ca	□ Mo	□ Zn	DNO	03	☐ Dissolve☐ Rad 226			□ Sulfit				XRF Scan		NPDES	□M	etals in	oil	
	□ Iva	U ZII	□ SC	14			The Later of the L	□рН			I UI	HG1		The second secon		vs.Cd,C	r.Ni.Pt	1
□ Co	□Ni	☐ Hg			☐ Rad 228 ☐ PCB			□ Chlor	rides			ineness		☐ Oil & Grease ☐ As	H E T	g)		

# **Chain of Custody**



Acidity

HT

Used Oil

Hg)

TX

COFER

Flashpoint

Metals in oil

Dielectric Strength

Dissolved Gases

(As.Cd.Cr,Ni,Pb

☐ Mineral

☐ % Moisture

**NPDES** 

□ Oil & Grease

□ As

□ TSS

□ Sieve

Analysis

Santee Cooper One Riverwood Drive Moneks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175 587122/587123 Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA @santeecooper.com 125915 / JM02.08.601.1 / 36500 Yes No **Analysis Group** Labworks ID# Sample Location/ Comments 5 Collection Date Collection Time Matrix(see below) (Internal use Description (Glass-Sample Collector Method # 22/22 only) Total # of contain Preservative (: below) Grab (G) or Composite (C) Reporting limit Bottle type: (G/Plastic-P) RAD Misc. sample info Any other notes TOTAL BAD 五 PEW 3 7/14/22 AF38200 WLF-42-6 1150 G G GW 2 1 BM Hg-7470 RL=0.200 PPB 2 X Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C):\_\_\_\_\_ Initial: Sgratan 1105 the 35594 7/22/22 GEL 7/22/22 1105 Relinquished by: Employee# Correct pH: Yes Date Time Received by: Employee # Date Time Preservative Lot#: Relinquished by: Employee# Date Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. Gypsum Coal Oil Flyash □ Ag □ Cu O Sb TOC □ BTEX □ Wallboard □ Ultimate □ A1 □ Fe □ Se Trans. Oil Qual. ☐ Ammonia □ Napthalene DOC Gypsum(all ☐ % Moisture %Moisture □ LOI □ As  $\Box K$ □ Sn □ THM/HAA TP/TPO4 below) Color □ Ash ☐ % Carbon

D AIM

DITOC

☐ Total metals

☐ % Moisture

☐ Sulfites

☐ Chlorides

☐ Particle Size

DpH

□ Sulfur

☐ Soluble Metals

□ Purity (CaSO4)

□ Sulfur

□ BTUs

□ CHN

Other Tests:

☐ Particulate Matter

☐ XRF Scan

☐ Fineness

□ HGI

☐ Volatile Matter

□ VOC

☐ E. Coli

□pH

□ Oil & Grease

☐ Total Coliform

☐ Dissolved As

☐ Dissolved Fe

□ Rad 226

☐ Rad 228

□ PCB

NH3-N

F

Cl

Br

NO2

NO<sub>3</sub>

**SO4** 

 $\Box$  B

□ Ba

□ Be

□ Ca

□ Cd

□ Co

□ Cr

□ Li

□ Mg

□ Mn

□ Mo

□ Na

□ Ni

□ Pb

□ Sr

□ Ti

 $\Box V$ 

□ Zn

□ Hg

□ CrVI

# **Chain of Custody**



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

587/22/587123 Customer Email/Report Recipient: Date Result

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com \_\_\_\_\_ [25915 ] JM02.09.GØ1.1 ] 36500 Yes No

															1	Analysi	s Group
Labworks ID (Internal use only)	1,000	ample Locatio escription		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     Re     Mi     An	Con ethod # porting lin sc. sample y other no	info	RAD 226/228	TOTAL RAD CALC	玉
AF38171	W	JAP-14	a similar s	7/20/22	2 1412	DEW	3	P	G	GW	2	Hg - 71	470 RI	= 0.200 PPB	2	×	Ţ
AF38172	W	AP-14 DU	P	1	1417	1	3	1	Ĩ	1							
AF3 8173	W	AP-14A			1100			1									
4F38174	W	AP-14B			12:20									100 to 10			
AF38175	W	4P - 14C			1317		1			1							
AF38170	W	IAP-13		7/18/22	2  3 2	DEW	1	1	Ī	1	1						
AF38176	W	AP-15		1	1430	1								The service of the se			
AF38183	W	AP-21		7/14/22	1045												
AF 38/77	W	AP-16	tellish	1	1248		<u> </u>	1		1				Design to the second se		Ī	1
Relinquished	by:	Employee#	Date	Time	Recei	ved by:	E	mployee	#	Date		Time		le Receiving (Internal			
&grawun Relinquished	by:	35594 Employee#	7/22/22 Date	NO5 Time	-	ved by:		GEL nployee		/22/2: Date		II05		P (°C):ect pH: Yes No		:	
<u> </u>									Setting Land			Marie R.	Prese	rvative Lot#:			
Relinquished	by:	Employee#	Date	Time	Receiv	ed by:	Ei	mployee	#	Date		Time					
7	META	ALS (all )	[01]FI						TE TO L					Time/Init for preserv	ative:		
Company of the Compan	Cu		<b>以</b> 与自己	rients	MI	SC.		To a little to the little to t	psun			Coal		<u>Flyash</u>		<u>Oi</u>	
	] Fe	□ Se	II DO		□ BTEX □ Napthale	ene		Wallbo	ard sum( <i>al</i>	7		Ultimate    % Mois	turo	☐ Ammonia		ns. Oil 6Mois	Qual.
□ As □	K	□ Sn		TPO4	□ THM/H			belov	v)	TX III		☐ Ash	iuie	☐ LOI ☐ % Carbon		olor	WILC.
□ <b>B</b> □	Li	□ Sr	□ NH	I3-N	□ VOC □ Oil & G	rease						□ Sulfur		☐ Mineral		cidity	Strength
□ Ba □	Mg	□ Ti			□ E. Coli				al metal	S		□ BTUs		Analysis	0.11	Т	
□ Be □	Mn	□ TI	DNO	)2	☐ Total Co	liform			uble Me			☐ Volatile	Watter	☐ Sieve ☐ % Moisture		issolve ed Oil	ed Gases
	Mo	ΟV	□Br		☐ Dissolve			U%N	Aoisture		A RESERVE	her Tests:		_ verviolature	□F	lashpo	int
	Na	□Zn	D NO	Section 1 and 1 and 1 decision 1	☐ Dissolve ☐ Rad 226		710	□ Sul				KRF Scan HGI		<u>NPDES</u>	☐ Metals in oil (As,Cd,Cr,Ni,Pb		
		The state of the s			□ Rad 228			□ pH □ Chlorides			NAME OF TAXABLE PARTY.	ineness		□ Oil & Grease		rs,ca. lg)	Startin C
□ Co □	Ni	□ Hg	A STATE OF THE PARTY OF THE PAR	The second second second	□ PCB				icle Siz			articulate M	STATE OF THE PARTY	□ As	□ TX □ GOFER		

			SAMPLE RECEIPT & REVIEW FORM
		SD	G/AR/COC/Work Order: 587 125/7120/7122/7123
		í	te Received: 7/23/11
			Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Yes	No	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
	X	Haz	ard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
	Y	CO	C notation or radioactive stickers on containers equal client designation.
	X	Max	cimum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	X		C notation or hazard labels on containers equal client designation.
	X	If D	or E is yes, select Hazards below.  PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
X			Circle Applicable: Client contacted and provided COC COC created upon receipt
	X		Preservation Method: Wet Ice Ice Packs Dry ice None Other:  *all temperatures are recorded in Celsius  TEMP:
X			Temperature Device Serial #:
X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
1	a see		Sample ID's and Containers Affected:  If Preservation added, Lot#:
		1	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:
V			ID's and tests affected:
X			ID's and containers affected:
X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
X			Circle Applicable: No container count on COC Other (describe)
X			Circle Applicable: Not relinquished Other (describe)
	X X X X X X X X X X X X X X X X X X X	X X X Ves NA X X X X X X X X X X X X X X X X X X	Ba  Sa  A  COO  Ma  C

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 01 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651 10120001
South Carolina Chemistry	
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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

gel.com

August 19, 2022

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

Re: ABS Lab Analytical Work Order: 587123

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 22, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

Sincerely,

Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 587123 GEL Work Order: 587123

#### 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.

	Inlie	Roberson	
Reviewed by			

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 19, 2022

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: AF38171
Sample ID: 587123001
Matrix: Ground Water
Collect Date: 20-JUL-22 14:42
Receive Date: 22-JUL-22

22-JUL-22 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF An	alyst Date	Time Batch	Method
Rad Gas Flow Propo	rtional Counting										
GFPC, Ra228, Liqui	d "As Received"										
Radium-228		2.28	+/-1.30	1.93	3.00	pCi/L		JX0	08/18/22	0917 2293717	1
Radium-226+Radium	n-228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		2.92	+/-1.33			pCi/L		1 NX	L1 08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, I	Liquid "As Recei	ved"									
Radium-226		0.645	+/-0.269	0.206	1.00	pCi/L		LX	21 08/10/22	1022 2293712	3
The following Analy	ytical Methods w	ere perfoi	rmed:								
Mathod	Description					1),	Analyz	at Comm	enta		

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

3 EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

70.4 (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

Page 3 of 24 SDG: 587123

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 19, 2022

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: AF38172
Sample ID: 587123002
Matrix: Ground Water
Collect Date: 20-JUL-22 14:47
Receive Date: 22-JUL-22

Receive Date: 22-JUI 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	1.23	+/-0.922	1.40	3.00	pCi/L		JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		2.06	+/-0.988			pCi/L		1 NXL	08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		0.831	+/-0.354	0.354	1.00	pCi/L		LXP1	08/10/22	1022 2293712	3
The following Analytic	cal Methods w	ere perfo	ormed:								
Method	Description					Ŋ	Analys	st Commen	ts		

( <del></del>	Carcaration				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	ry Test	Result	Nominal	Recovery%	Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 72 (15%-125%)

## Notes:

1

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

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 24 SDG: 587123

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

**Certificate of Analysis** 

Report Date: August 19, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38173 Sample ID: 587123003 Matrix: Ground Water Collect Date: 20-JUL-22 11:00

22-JUL-22 Receive Date: Collector: Client

Project:	SOOP00119
Client ID:	SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	KL	Units	PF	DF	Analy	st Date	Time Batch	Method
Rad Gas Flow Proportion	nal Counting											
GFPC, Ra228, Liquid "A	As Received"											
Radium-228	U	-0.472	+/-1.35	2.60	3.00	pCi/L			JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-22	28 Calculation	n "See Pa	arent Products"									
Radium-226+228 Sum		1.58	+/-1.42			pCi/L		1	NXL1	08/18/22	1336 2293716	2
Rad Radium-226												
Lucas Cell, Ra226, Liqu	id "As Recei	ved"										
Radium-226		1.58	+/-0.438	0.233	1.00	pCi/L			LXP1	08/10/22	1022 2293712	3
The following Analytica	al Methods w	ere perfo	rmed:									
Method	Description					I	Analys	st Co	mment	S		
1	EPA 904.0/SW	846 9320 N	Modified									
2	Calculation											

EPA 903.1 Modified Surrogate/Tracer Recovery Test Result Nominal Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 65.9 (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 5 of 24 SDG: 587123

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 19, 2022

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: AF38174
Sample ID: 587123004
Matrix: Ground Water
Collect Date: 20-JUL-22 12:20

Receive Date: 22-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										3.
GFPC, Ra228, Liquid "A	As Received"										
Radium-228		2.68	+/-1.36	1.97	3.00	pCi/L		JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-23	28 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		5.55	+/-1.49			pCi/L		1 NXL1	08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		2.87	+/-0.609	0.252	1.00	pCi/L		LXP1	08/10/22	1055 2293712	3
The following Analytic	al Methods w	ere 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"

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 6 of 24 SDG: 587123

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

**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: August 19, 2022

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: AF38175
Sample ID: 587123005
Matrix: Ground Water
Collect Date: 20-JUL-22 13:17
Receive Date: 22-JUL-22

TUL-22 13:17

Collector: Client

Parameter Qualifier Result Uncertainty MDC RL Units PF

Time Batch Method DF Analyst Date Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 0.649 +/-1.35 2.37 3.00 pCi/L 08/18/22 0917 2293717 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum +/-1.44 pCi/L NXL1 08/18/22 1336 2293716 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 2.31 +/-0.511 0.269 1.00 pCi/L LXP1 08/10/22 1055 2293712 3

The following Analytical Methods were performed:

Description

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"

66.8 (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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: August 19, 2022

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: AF38170
Sample ID: 587123006
Matrix: Ground Water
Collect Date: 18-JUL-22 13:12

Receive Date: 22-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting										*
GFPC, Ra228, Liquid "	'As Received"										
Radium-228		2.51	+/-1.47	2.27	3.00	pCi/L		JXC9 08	8/18/22	0917 2293717	1
Radium-226+Radium-2	228 Calculatio	n "See P	arent Products"								
Radium-226+228 Sum		3.91	+/-1.54			pCi/L		1 NXL1 0	8/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		1.40	+/-0.456	0.401	1.00	pCi/L		LXP1 0	8/10/22	1055 2293712	3
The following Analytic	cal Methods w	ere perfo	ormed:								
Method	Description					2	Analys	st Comments			

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	903.1 Modified				
Z Care	uration				

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

79.9 (15%-125%)

## Notes:

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

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 8 of 24 SDG: 587123

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**Certificate of Analysis** 

Report Date: August 19, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38176
Sample ID: 587123007
Matrix: Ground Water
Collect Date: 18-JUL-22 14:30
Receive Date: 22-JUL-22

Client

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.526	+/-0.898	1.57	3.00	pCi/L		JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-2	28 Calculation	n "See Pa	arent Products"								
Radium-226+228 Sum		2.82	+/-1.04			pCi/L		1 NXL	08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		2.29	+/-0.521	0.317	1.00	pCi/L		LXP1	08/10/22	1055 2293712	3

The following Analytical Methods were performed:

Description

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

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 82.9 (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:

Collector:

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 9 of 24 SDG: 587123

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

**Certificate of Analysis** 

Report Date: August 19, 2022

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: AF38183
Sample ID: 587123008
Matrix: Ground Water
Collect Date: 14-JUL-22 10:45
Receive Date: 22-JUL-22

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	rst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	0.728	+/-1.10	1.90	3.00	pCi/L		JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		1.02	+/-1.14			pCi/L		1 NXL1	08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226	U	0.296	+/-0.284	0.453	1.00	pCi/L		LXP1	08/10/22	1055 2293712	3
The following Analytic	al Methods w	ere perfo	rmed:								

Meniou	Description	
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Decorintion

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

81.8 (15%-125%)

Danidiii 155 11acci

Mathod

Notes:

Column headers are defined as follows:

Collector:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

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

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: August 19, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38177 Sample ID: 587123009 Matrix: Ground Water Collect Date: 14-JUL-22 12:48

22-JUL-22 Receive Date: 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		3.45	+/-1.34	1.82	3.00	pCi/L		JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-2	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		5.25	+/-1.43			pCi/L		1 NXL1	08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		1.79	+/-0.495	0.408	1.00	pCi/L		LXP1	08/10/22	1055 2293712	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 Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 82 (15%-125%) 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

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

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 19, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38158 Sample ID: 587123010 Matrix: Ground Water Collect Date: 18-JUL-22 12:01 Receive Date: 22-JUL-22

Client

Project:

Client ID:

**Oualifier** Result Uncertainty MDC RLUnits PF Time Batch Method Parameter DF Analyst Date Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.07 +/-1.30 2.20 3.00 pCi/L 08/18/22 0917 2293717 Radium-226+Radium-228 Calculation "See Parent Products" Radium-226+228 Sum +/-1.37 pCi/L NXL1 08/18/22 1336 2293716 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 1.68 +/-0.415 0.198 1.00 pCi/L LXP1 08/10/22 1055 2293712 3 The following Analytical Methods were performed:

Method Description Analyst Comments 1 EPA 904.0/SW846 9320 Modified

2 Calculation EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Acceptable Limits Recovery% Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 82.1 (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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 19, 2022

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: AF38159
Sample ID: 587123011
Matrix: Ground Water
Collect Date: 18-JUL-22 15:22
Receive Date: 22-JUL-22

e: 22-JUL-22 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	1.26	+/-1.34	2.24	3.00	pCi/L			JXC9	08/18/22	0917 2293717	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"									
Radium-226+228 Sum		2.29	+/-1.40			pCi/L		1	NXL1	08/18/22	1336 2293716	2
Rad Radium-226												
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"										
Radium-226		1.03	+/-0.391	0.328	1.00	pCi/L			LXP1	08/10/22	1128 2293712	3
The following Analytic	al Methods w	ere perfo	ormed:									
Method	Description					1	Analys	st Co	mment	S		

3 EPA	A 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.2	(15%-125%)

#### Notes:

1

2

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

EPA 904.0/SW846 9320 Modified

Calculation

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 13 of 24 SDG: 587123

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

**Certificate of Analysis** 

Report Date: August 19, 2022

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: AF38200
Sample ID: 587123012
Matrix: Ground Water
Collect Date: 14-JUL-22 11:50
Receive Date: 22-JUL-22

Client ID: SOOP001

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proport:	ional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228		2.32	+/-1.13	1.59	3.00	pCi/L		JXC9	08/18/22	0918 2293717	1
Radium-226+Radium-	228 Calculatio	n "See Pa	arent Products"								
Radium-226+228 Sum		3.32	+/-1.18			pCi/L		1 NXL1	08/18/22	1336 2293716	2
Rad Radium-226											
Lucas Cell, Ra226, Lic	quid "As Recei	ved"									
Radium-226	no.	0.999	+/-0.340	0.219	1.00	pCi/L		LXP1	08/10/22	1128 2293712	3
The following Analyti	ical Methods w	ere perfo	rmed:								

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"

78.6 (15%-125%)

Notes:

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

**QC Summary** 

Report Date: August 19, 2022

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 587123

Parmname	NOM	Sample Qua	ıl QC	Units	RPD%	REC%	Range 2	Anlst	Date Time
Rad Gas Flow Batch 2293717	1								
QC1205146718 587123001 1	DUP								
Radium-228		2.28	1.92	pCi/L	17		(0% - 100%)	JXC9	08/18/22 09:16
	Uncertainty	+/-1.30	+/-1.11						
QC1205146719 LCS									
Radium-228	44.8		48.8	pCi/L		109	(75%-125%)		08/18/22 09:16
	Uncertainty		+/-3.59						
QC1205146717 MB									
Radium-228		U	-0.0347	pCi/L					08/18/22 09:16
	Uncertainty		+/-1.21						
Rad Ra-226 Batch 2293712	c								
QC1205146709 LCS									
Radium-226	26.0		22.8	pCi/L		87.7	(75%-125%)	LXP1	08/10/22 11:28
	Uncertainty		+/-1.67						
QC1205152969 LCSD									
Radium-226	26.0		22.4	pCi/L	2.07	85.9	(0%-20%)		08/10/22 11:58
	Uncertainty		+/-1.66						
QC1205146706 MB									
Radium-226			0.408	pCi/L					08/10/22 11:28
	Uncertainty		+/-0.232						

#### Notes:

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

The Qualifiers in this report are defined as follows:

Analyte is a Tracer compound

Result is less than value reported

Result is greater than value reported

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

FA Failed analysis.

Analytical holding time was exceeded Η

J See case narrative for an explanation

Value is estimated

Page 15 of 24 SDG: 587123

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

## **QC Summary**

Page 2 of 2 Pa

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
						All annual and the beautiful a			2210 45115	

- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD

587123

- Μ REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.
- N1See case narrative

Workorder:

- Analyte concentration is not detected above the detection limit ND
- NJConsult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- Λ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to

evaluate the DUP result. \* Indicates that a Quality Control parameter was not within specifications.

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

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

Page 16 of 24 SDG: 587123

#### Radiochemistry Technical Case Narrative Santee Cooper SDG #: 587123

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

Analytical Method: Calculation

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

Analytical Batch: 2293716

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

<b>GEL Sample ID#</b>	<b>Client Sample Identification</b>
587123001	AF38171
587123002	AF38172
587123003	AF38173
587123004	AF38174
587123005	AF38175
587123006	AF38170
587123007	AF38176
587123008	AF38183
587123009	AF38177
587123010	AF38158
587123011	AF38159
587123012	AF38200

#### **Data Summary:**

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

Product: GFPC, Ra228, Liquid

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

**Analytical Batch:** 2293717

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

GEL Sample ID#	Client Sample Identification
587123001	AF38171
587123002	AF38172
587123003	AF38173
587123004	AF38174
587123005	AF38175
587123006	AF38170
587123007	AF38176
587123008	AF38183

Page 17 of 24 SDG: 587123

587123009	AF38177
587123010	AF38158
587123011	AF38159
587123012	AF38200
1205146717	Method Blank (MB)
1205146718	587123001(AF38171) Sample Duplicate (DUP)
1205146719	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:** 2293712

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

GEL Sample ID#	Client Sample Identification
587123001	AF38171
587123002	AF38172
587123003	AF38173
587123004	AF38174
587123005	AF38175
587123006	AF38170
587123007	AF38176
587123008	AF38183
587123009	AF38177
587123010	AF38158
587123011	AF38159
587123012	AF38200
1205146706	Method Blank (MB)
1205146709	Laboratory Control Sample (LCS)
1205152969	Laboratory Control Sample Duplicate (LCSD)

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

#### **Data Summary:**

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

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

#### Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Page 18 of 24 SDG: 587123

Sample	Analyte	Value
1205146706 (MB)	Radium-226	Result: 0.408 pCi/L > MDA: 0.260 pCi/L <= RDL: 1.00 pCi/L

### **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 19 of 24 SDG: 587123

**Customer Email/Report Recipient:** 

# 8 / 1 / 22 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.com">sibrown.com<

# **Chain of Custody**



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

587/22/587123

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LCWILLIA @santeecooper.com | | 125915 / JMo2.68. €\$1.3 / ₩36500 Yes No

-			оорстоон		<i></i>					0		07 (.5	J	Yes	NO		
															A	analysis	Group
Labworl (Interna 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	Met     Rep     Mis     Any	Con hod # orting lin c. sample other no	e info	RAD 224/228	18TAL RAD CALC.	H <del>-</del>
AF381	58	WAP-3		7/18/2	2 1201	DEW	3	P	6	GW	2	Hg-747	OR	L= 0.200 PPB	2	×	1
AF3819	59	WAP-4	8112-25-10-211-2	1	1522	1	3	1	T	1	1				2	×	1
Poline	ished by:	Employee#	Date	Time						Date			Samp	le Receiving (Internal	Use On	ly)	
Somo		35594	7/22/22	1105	Received by:			Employee # Date  GEL 7/22/2:				P (°C):	Initial:				
V	ished by:	Employee#	Date	Time		ed by:	Employee # Date				Time Correct pH: Yes			No			
													Prese	rvative Lot#:			
Relinqu	ished by:	Employee#	Date	Time	Receiv	ed by:	Em	ployee #		Date		Time	Date/	Time/Init for presery	ative:		
		FALS (all )	Nur	trients	NAIG			GVI									
□ Ag	□ Cu	□Sb	E TO	CONTRACTOR OF THE PARTY OF THE	MIS D BTEX	<u>sc.</u>		Waliboa	sum			Coal		Flyash	T Trans	Oil	
	□ Fe	□ Se		oc	☐ Napthale			Gypsi	um(al	I		Ultimate    % Moist	ure	☐ Ammonia ☐ LOI	□ Trai	ns. Oil Moist	Qual. ure
□ As	□ K	□ Sn		TPO4	□ THM/HA □ VOC	AA		below				□ Ash		☐ % Carbon		olor cidity	
□В	□ Li	□ Sr	□NI	13-N	□ Oil & Gr	rease	D AIM			☐ Sulfur ☐ BTUs		☐ Mineral	□ Di	electric	Strength		
□ Ba	□ Mg	□ Ti	D CI		☐ E. Coli ☐ Total Co	liform		☐ Tota				□ Volatile	Matter	Analysis  ☐ Sieve	□ IF		d Gases
□Ве	□ Mn	□ TI	□NO		□pH			☐ Purit	y (CaS	04)		□ CHN		☐ % Moisture	Use	d Oil	
□ Ca	□Мо	□ <b>V</b>			☐ Dissolve			□ % M □ Sulfi				ther Tests: XRF Scan		NDDEC	☐ Flashpoint ☐ Metals in oil		
□ Cd	□ Na	□ Zn	□ SC		☐ Rad 226			□рН				HGI		NPDES  ☐ Oil & Grease	(2	\s,Cd,C	Tr.Ni.Pb
□ Co	□Ni	□ Hg			☐ Rad 228 ☐ PCB			☐ Chlo		e	A CONTRACTOR	Fineness Particulate Ma	tter	□ As	H b T	g) X	
□ Cr	□Pb	□ CrVI			Y Marie		U	Sulfur						□ TSS		FER	

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

## 8 / 1 / 22 Send report to <a href="mailto:lcwillia@santeecooper.com">lcwillia@santeecooper.com</a> & sibrown@santeecooper.com

# **Chain of Custody**

santee cooper

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

587122/587123 Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA @santeecooper.com 125915 / JM02.08.601.1 / 36500 Yes No **Analysis Group** Labworks ID# Sample Location/ Comments 5 Collection Date Collection Time Matrix(see below) (Internal use Description (Glass-Sample Collector Method # 22/22 only) Total # of contain Preservative (: below) Grab (G) or Composite (C) Reporting limit Bottle type: (G/Plastic-P) RAD Misc. sample info Any other notes TOTAL BAD 五 PEW 3 7/14/22 AF38200 WLF-42-6 1150 G G GW 2 1 BM Hg-7470 RL=0.200 PPB 2 X Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C):\_\_\_\_\_ Initial: Sgratan 1105 35594 7/22/22 GEL 7/22/22 1105 Relinquished by: Employee# Correct pH: Yes Date Time Received by: Employee # Date Time Preservative Lot#: Relinquished by: Employee# Date Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. Gypsum Coal Oil Flyash □ Ag □ Cu O Sb TOC □ BTEX □ Wallboard □ Ultimate □ A1 □ Fe □ Se Trans. Oil Qual. ☐ Ammonia □ Napthalene DOC Gypsum(all ☐ % Moisture %Moisture □ LOI □ As  $\Box K$ □ Sn □ THM/HAA TP/TPO4 below) Color □ Ash ☐ % Carbon □ VOC D AIM NH3-N  $\Box$  B □ Li Acidity □ Sr □ Sulfur □ Oil & Grease ☐ Mineral DITOC Dielectric Strength F □ BTUs □ Ba ☐ E. Coli Analysis □ Mg □ Ti ☐ Total metals HT Cl ☐ Volatile Matter □ Sieve ☐ Total Coliform ☐ Soluble Metals Dissolved Gases □ Be □ Mn NO2 □pH □ CHN □ Purity (CaSO4) ☐ % Moisture Used Oil Br ☐ Dissolved As □ Ca  $\Box V$ ☐ % Moisture Other Tests: □ Mo Flashpoint ☐ Dissolved Fe NO<sub>3</sub> ☐ XRF Scan ☐ Sulfites Metals in oil □ Cd **NPDES** □ Na □ Zn □ Rad 226 **SO4** DpH □ HGI (As.Cd.Cr,Ni,Pb ☐ Rad 228 □ Oil & Grease ☐ Chlorides ☐ Fineness Hg) □ Co □ Ni □ Hg □ PCB □ As ☐ Particle Size ☐ Particulate Matter TX □ Cr □ Pb □ CrVI □ TSS □ Sulfur COFER

# **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 @santeecooper.com 125915 / JM02.09. GØ1.1/ 36500 Yes No

												- Alle little		163	140			
Labworks ID # (Internal use	53-10-20-20	imple Location	on/	ate	ime	tor	iners	lass-		low)	see	Met	Com	nments		1.7	s Group	
only)				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)	• Mis	orting lin c. sample other no	info	RAD 226/228	TOTAL RAD	玉	
AF38171	1 WAP-14			7/20/20	2 1412	DEW	3	3 P	G	GW	2	Hg - 7470 RL= 0.200 PPB		= 0.200 PPB	2	×	I	
AF38172	Z WAP-14 DUP			1	1417	1	3	1	1	1								
AF3 8173	W	AP-14A		11	1100			1										
AF38174	W	HP-14B			1220													
AF38175	WA	4P - 14C		1	1317	1	1	1	1	Ţ	1							
AF38170	W	AP-13		7/18/27	2  3 2	DEW	1		1		1			anne de la companya de la companya de la companya de la companya de la companya de la companya de la companya				
AF3 8 176	W	4P-15		1	1430	1			-									_
AF38183	F38183 WAP-21		7/14/22	1045								W		1				
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Relinquished b	y: [	Employee#	Date	Time	Receiv	ed by:	   E	mployee	#	Date	in satura	Time	Sampl	e Receiving (Internal	Use Oi	nly)		
Relinquished by: Employee#		7/22/22 Date	NOS Time	M. Steelived by:			GEL 7/22/2 Employee # Date		/22/22 Date	22 1105			ect pH: Yes No		l:			
- 07 10 F 4 3 C MS 4 50 S M 10 H		MARKEN SERVICE				A-51-011							Prese	rvative Lot#:				
Relinquished b	y:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date		Time	Date/	Time/Init for preserv	ative:			
	CONTRACTOR OF THE PARTY OF THE	LS (all)	Nut	rients	MI	SC.		Gv	psun	n		Coal		Elyach		Oi		
		☐ Sb	<b>В ТО</b>	THE RESERVE OF THE PARTY OF THE	□ BTEX □ Napthalene □ THM/HAA		C	☐ Wallboard				□ Ultimate		Flyash  Ammonia	□ Tra	ns. Oi		
	FIRST CO.	□ Sn	DO					Gypsur below)				☐ % Moist	ure 🔲 LOI		0.9	6Mois		
	2 2 2 2 2 2	□ Sr	□NH	TPO4 3-N	□ VOC				M			☐ Ash ☐ Sulfur		☐ % Carbon ☐ Mineral	DA	Color scidity		
	Mg	□ Ti	— DF		□ Oil & Gi □ E. Coli	rease		□ Tota	C al meta	metals		□ BTUs	Analysis			ielectric FT	Strength	
CHARLET BER	Mn	□ TI		2	☐ Total Co			□ Soluble		le Metals		☐ Volatile ☐ CHN	Matter ☐ Sieve ☐ % Moisture		91	Dissolve	d Gases	
STATE OF STATE	Mo	□ V	□ Br	□ Dissolv				☐ Purit ☐ % M		y (CaSO4) oisture		Other Tests:		□ /0 WIGISTUFE	□F	ed Oil Iashpo	nt	
	Manta ser	□Zn	□ NO		☐ Dissolve ☐ Rad 226			□ Sulf			250 0000000	KRF Scan		NPDES		tetals i As:Cd.	n oil Cr,Ni,Pl	
□ Co □ ]		☐ Hg			□ Rad 228 □ PCB			□ Chl	orides		□F	ineness		☐ Oil & Grease ☐ As	ŀ	lg)	en trais	
□Cr □1		□ CrVI			A I CB		1	☐ Part ☐ Sulfur	ticle Siz	e		Particulate Ma	ner	□ TSS		X FER		

<b>CEL</b> Laboratorie	S LLC			SAMPLE RECEIPT & REVIEW FORM								
Client: 500 P				SDG/AR/CQC/Work Order: 587 125/ 7120/ 7122/7123								
Received By: S.P				Date Received: 7 23/11								
Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other								
Suspected Hazard Information			*If	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.								
A)Shipped as a DOT Hazardous?			На	zard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo								
B) Did the client designate the samples received as radioactive?	are to be	X	COC notation or radioactive stickers on containers equal client designation.									
C) Did the RSO classify the samples as radioactive?		X	Ma	ximum 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?	X	COC notation or hazard labels on containers equal client designation.									
E) Did the RSO identify possible hazar	ds?	1	li 1	O or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:								
Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)								
1 Shipping containers received in sealed?			STATE OF THE PARTY	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)								
2 Chain of custody documents in with shipment?	cluded			Circle Applicable: Client contacted and provided COC COC created upon receipt								
3 Samples requiring cold preserve within (0 ≤ 6 deg. C)?*		X	)	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 #:								
5 Sample containers intact and so	ealed?			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)								
6 Samples requiring chemical proat proper pH?	eservation			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 Freezer)								
7 Do any samples require Vo	olatile		X	Do liquid VOA vials contain acid preservation? Yes No NA(If unknown, select No)								
Analysis?			(	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:								
9 Sample ID's on COC match ID bottles?	's on			ID's and containers affected:								
10 Date & time on COC match da on bottles?	te & time			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)								
12 Are sample containers identifiable as GEL provided by use of GEL labels?												
COC form is properly signed in relinquished/received sections?	1			Circle Applicable: Not relinquished Other (describe)								
Comments (Use Continuation Form if n		NO.										
N												

PM (or PMA) review: Initials ## Date #12#12C Page \_\_\_\_ of \_\_\_\_

List of current GEL Certifications as of 19 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-2
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780











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

gel.com

July 25, 2022

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

Re: ABS Lab Analytical Work Order: 586276

Dear Ms. Gilmetti:

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

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

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

Sincerely,

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: 586276 GEL Work Order, 586276

#### The Qualifiers in this report are defined as follows:

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

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

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

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

	Inlie	Robinson	
Revie wed by			

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 25, 2022

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: AF38185 Sample ID: 586276001 Matrix: Ground Water Collect Date: 13-JUL-22 12:25 15-JUL-22 Receive Date:

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method			
Mercury Analysis-CVAA											
7470 Cold Vapor Mercury, Liquid "As Received"											

Mercury U ND 0.0670 0.200 1.00 1 JP2 07/19/22 1007 2290693 ug/L

The following Prep Methods were performed:

Method Prep Batch Date Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/18/22 2290688 RM4 1350

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38186
Sample ID: 586276002
Matrix: Ground Water
Collect Date: 13-JUL-22 15:31

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time	Batch	Method
Mercury Analysis-CV	VAA											
7470 Cold Vapor Me	rcury, Liquid "A	As Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1008	2290693	1
The following Prep N	Methods were pe	erformed:										
Method	Description	1		Analyst	Date	3	Γime	; I	Prep Batch	ß.		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22	1	1350	2	2290688			
T1 C-11 A1	z: _ 1 N (C-21, _ 1, _ 1	1.										

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

Analyst Comments

#### 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: July 25, 2022

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: AF38162
Sample ID: 586276003
Matrix: Ground Water
Collect Date: 13-JUL-22 10:00

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	ılyst Date	Time Batc	h Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	rcury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1010 22906	93 1
The following Prep N	Methods were pe	rformed:									
Method	Description	I)		Analyst	Date		Time	e .	Prep Batch	ši.	
SW846 7470A Prep	EPA 7470A N	1ercury Prep Liquid		RM4	07/18/22		1350		2290688		
The following Analy	rtical Methods w	ere performed:									

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38187
Sample ID: 586276004
Matrix: Ground Water
Collect Date: 11-JUL-22 10:30

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	ılyst Date	Time Batch	Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	ercury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1015 2290693	1
The following Prep 1	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Tim	e .	Prep Batch	Ķ.	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350		2290688		
The following Analy	rtical Methods v	vere performed:									

Method Description Analyst Comments

SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38188
Sample ID: 586276005
Matrix: Ground Water
Collect Date: 11-JUL-22 11:41

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ang	ılyst Date	Time	Ratch	Method
7		Result	77.	IXL	Onto	1.1	171	1 7110	nyst Date	THIIC	Daten	Michiga
Mercury Analysis-C'	VAA											
7470 Cold Vapor Me	ercury, Liquid "A	rs Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1017 2	2290693	1
The following Prep N	Methods were pe	rformed:										
Method	Description	Ľ		Analyst	Date	5	Γime		Prep Batch	ļi.		
SW846 7470A Prep	EPA 7470A M	fercury Prep Liquid		RM4	07/18/22	j	1350		2290688			
The following Angle	rtical Mathode w	rara parformad:										

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38189 Sample ID: 586276006 Matrix: Ground Water Collect Date: 11-JUL-22 11:46

15-JUL-22 Receive Date: Collector: Client

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

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury 0.0670 0.200 07/19/22 1019 2290693 ug/L

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688
701 C 11 2 A 1	7 13 C 1 C 1				

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### 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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Report Date: July 25, 2022

SOOP00119

SOOP001

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: AF38165 Sample ID: 586276007 Matrix: Ground Water Collect Date: 13-JUL-22 13:22 15-JUL-22 Receive Date:

Project:

Client ID:

Parameter **Oualifier** Result DLRLUnits PF DF Analyst Date Time Batch Method Mercury Analysis-CVAA 7470 Cold Vapor Mercury, Liquid "As Received"

Mercury

0.0670 0.200 1.00 1 JP2 07/19/22 1020 2290693 ug/L

The following Prep Methods were performed:

Collector:

Date Prep Batch Method Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/18/22 RM4 1350 2290688

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38166 Sample ID: 586276008 Matrix: Ground Water Collect Date: 13-JUL-22 13:27

Receive Date: 15-JUL-22 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
Mercury Analysis-CVA	ιA							

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury 0.0670 0.200 07/19/22 1022 2290693 ug/L 1.00 1 JP2

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/18/22 RM4 1350 2290688

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 25, 2022

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: AF38164
Sample ID: 586276009
Matrix: Ground Water
Collect Date: 13-JUL-22 14:34

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Ana	lyst Date	Time Batch	Method
Mercury Analysis	s-CVAA									
7470 Cold Vapor	Mercury, Liquid "A	As Received"								
Mercury	U	ND	0.0670	0.200	ug/L	1.00	0 1 JP2	07/19/22	1024 2290693	1

Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/19/22 1024 2290693

The following Prep Methods were performed:

Method Description Analyst Date Time Prep Batch
SW846 7470A Prep EPA 7470A Mercury Prep Liquid RM4 07/18/22 1350 2290688

The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 25, 2022

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: AF38181 Sample ID: 586276010 Matrix: Ground Water Collect Date: 13-JUL-22 11:08 Receive Date:

15-JUL-22

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time Batch	Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	rcury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1026 2290693	1
The following Prep N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	e F	Prep Batch	á	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350	2	290688		
The following Analy	rtical Methods v	vere performed:									95
Method	Description		·		A	Analys	t Coi	nmer	nts	·	

SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 25, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38191 Sample ID: 586276011 Matrix: Ground Water Collect Date: 12-JUL-22 10:44

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Meth	ıod
Mercury Analysis	-CVAA								

7470 Cold Vapor Mercury, Liquid "As Received"

ND 0.0670 0.200 1.00 1 JP2 07/21/22 1015 2291773 ug/L

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/20/22 2291768 RM4 1204

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38197 Sample ID: 586276012 Matrix: Ground Water Collect Date: 12-JUL-22 13:58

Receive Date: 15-JUL-22 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time Batch	Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	ercury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1027 2290693	1
The following Prep N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date	į	Time	e I	Prep Batch	ši.	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350	2	2290688		
The following Analy	tical Methods w	vere performed:									

Method

Analyst Comments Description SW846 7470A

## Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

Project:

Client ID:

**Certificate of Analysis** 

Report Date: July 25, 2022

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: AF38192
Sample ID: 586276013
Matrix: Ground Water
Collect Date: 12-JUL-22 14:55

Receive Date: 15-JUL-22 Collector: Client

Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time	e Batch	Method
AΑ											
ury, Liquid "A	As Received"										
U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1029	2290693	1
ethods were pe	erformed:										
Description	1		Analyst	Date		Time	e I	Prep Batch	94		
EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350	2	2290688			
	AA sury, Liquid "A U ethods were pe Description	AA bury, Liquid "As Received"	AA sury, Liquid "As Received"  U ND 0.0670 ethods were performed:  Description	AA sury, Liquid "As Received"  U ND 0.0670 0.200 ethods were performed:  Description Analyst	AA  sury, Liquid "As Received"  U ND 0.0670 0.200 ug/L  ethods were performed:  Description Analyst Date	AA  Bury, Liquid "As Received"  U ND 0.0670 0.200 ug/L 1.00  ethods were performed:  Description Analyst Date	AA  Bury, Liquid "As Received"  U ND 0.0670 0.200 ug/L 1.00 1  Sethods were performed:  Description Analyst Date Time	AA  Bury, Liquid "As Received"  U ND 0.0670 0.200 ug/L 1.00 1 JP2  ethods were performed:  Description Analyst Date Time	AA  Bury, Liquid "As Received"  U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/19/22  Sethods were performed:  Description Analyst Date Time Prep Batch	AA  Bury, Liquid "As Received"  U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/19/22 1029  ethods were performed:  Description Analyst Date Time Prep Batch	AA  sury, Liquid "As Received"  U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/19/22 1029 2290693  ethods were performed:  Description Analyst Date Time Prep Batch

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38193
Sample ID: 586276014
Matrix: Ground Water
Collect Date: 11-JUL-22 13:38

Receive Date: 15-JUL-22 Collector: Client

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

Mercury Analysis-CVAA

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/19/22 1031 2290693 1

The following Prep Methods were performed:

MethodDescriptionAnalystDateTimePrep BatchSW846 7470A PrepEPA 7470A Mercury Prep LiquidRM407/18/2213502290688

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

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: AF38194
Sample ID: 586276015
Matrix: Ground Water
Collect Date: 11-JUL-22 14:41

Receive Date: 15-JUL-22 Collector: Client

Property of the Control of the Contr		entered to the second s	804 500000	A00000011	Validation 1800	20110001000				NAME OF THE OWNER.	AN OTHER PERSONS IN
Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time Batch	Method
Mercury Analysis-C	VAA										
7470 Cold Vapor Me	rcury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1036 2290693	1
The following Prep N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Tim	e ]	Prep Batch	132	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350	:	2290688		
The following Analy	rtical Methods v	vere performed:									

Method Description Analyst Comments

SW846 7470A

#### Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
DDA: 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: July 25, 2022

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: AF38195
Sample ID: 586276016
Matrix: Ground Water
Collect Date: 11-JUL-22 15:35

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time	Batch	Method
Mercury Analysis-C	VAA											
7470 Cold Vapor Me	ercury, Liquid "A	As Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1038	2290693	1
The following Prep 1	Methods were pe	rformed:										
Method		Analyst	Date		Time	e ]	Prep Batch	ß.				
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350		2290688			
The following Analy	rtical Mathoda v	vara parformad:										

The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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

**Certificate of Analysis** 

Report Date: July 25, 2022

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: AF38196
Sample ID: 586276017
Matrix: Ground Water
Collect Date: 11-JUL-22 15:40
Receive Date: 15-JUL-22

5017 Client ID: SOOP001 I Water

Project:

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time Batch	Method
Mercury Analysis-CV	/AA										
7470 Cold Vapor Mer	rcury, Liquid "A	As Received"									
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1040 2290693	1
The following Prep N	lethods were pe	erformed:									
Method	Description	1		Analyst	Date	<b>r</b> 0	Γime	e F	Prep Batch	á	
SW846 7470A Prep	EPA 7470A N		RM4	07/18/22	ļ	1350	2	290688			
The following Analy	tical Methods v	vere performed:									

Method Description Analyst Comments

SW846 7470A

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

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: July 25, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38178 Sample ID: 586276018 Matrix: Ground Water Collect Date: 12-JUL-22 12:35

15-JUL-22 Receive Date: Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
Mercury Analysis-	CVAA							3

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury 0.0670 0.200 07/19/22 1041 2290693 ug/L 1.00 1 JP2

The following Prep Methods were performed:

Method Date Prep Batch Description Analyst Time SW846 7470A Prep EPA 7470A Mercury Prep Liquid 07/18/22 RM4 1350 2290688

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 20 of 30 SDG: 586276

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: July 25, 2022

SOOP00119

SOOP001

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF38179 Sample ID: 586276019 Matrix: Ground Water Collect Date: 12-JUL-22 12:40

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
Mercury Analysis-C	VAA							3

7470 Cold Vapor Mercury, Liquid "As Received"

Mercury 0.0670 0.200 1.00 1 JP2 07/19/22 1043 2290693 ug/L

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688
The following Analy	utical Mathods ware performed:				

The following Analytical Methods were performed:

Method Description Analyst Comments SW846 7470A

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**QC** Summary

Report Date: July 25, 2022

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 586276

Parmname			NON	M	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date '	Time
Metals Analysis-Metals Analysi	rcury 90693	£ <u>1</u>												
QC1205141031 Mercury	586020001	DUP			0.448		0.460	ug/L	2.64 ^		(+/-0.200)	JP2	07/19/22	2 10:00
QC1205141030 Mercury	LCS		2.00				2.05	ug/L		103	(80%-120%)		07/19/22	2 09:56
QC1205141029 Mercury	MB					U	ND	ug/L					07/19/22	2 09:55
QC1205141032 Mercury	586020001	MS	2.00		0.448		2.41	ug/L		98.1	(75%-125%)		07/19/22	2 10:02
QC1205141033 Mercury	586020001	SDILT			0.448	J	0.0830	ug/L	7.37		(0%-10%)		07/19/22	2 10:03
D 11 000	11772													
Patch 229 QC1205143343 Mercury	91773 585226001	DUP		U	ND	U	ND	ug/L	N/A			JP2	07/21/22	2 09:49
QC1205143342 Mercury	LCS		2.00				2.19	ug/L		110	(80%-120%)		07/21/22	2 09:45
QC1205143341 Mercury	МВ					U	ND	ug/L					07/21/22	2 09:44
QC1205143344 Mercury	585226001	MS	2.00	U	ND		2.18	ug/L		109	(75%-125%)		07/21/22	2 09:51
QC1205143345 Mercury	585226001	SDILT		U	ND	U	ND	ug/L	N/A		(0%-10%)		07/21/22	2 09:52

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## **QC** Summary

Workorder: 586276

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Tim
Ti.									

#### Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.  $^{\text{h}}$  The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

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

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

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

Page 23 of 30 SDG: 586276

### Metals Technical Case Narrative Santee Cooper SDG #: 586276

**Product:** Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

**Analytical Method:** SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

**Analytical Batch:** 2290693

**Preparation Method:** SW846 7470A Prep

**Preparation Procedure:** GL-MA-E-010 REV# 38

Preparation Batch: 2290688

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

GEL Sample ID#	Client Sample Identification
586276001	AF38185
586276002	AF38186
586276003	AF38162
586276004	AF38187
586276005	AF38188
586276006	AF38189
586276007	AF38165
586276008	AF38166
586276009	AF38164
586276010	AF38181
586276012	AF38197
586276013	AF38192
586276014	AF38193
586276015	AF38194
586276016	AF38195
586276017	AF38196
586276018	AF38178
586276019	AF38179
1205141029	Method Blank (MB)CVAA
1205141030	Laboratory Control Sample (LCS)
1205141033	586020001(NonSDGL) Serial Dilution (SD)
1205141031	586020001(NonSDGD) Sample Duplicate (DUP)
1205141032	586020001(NonSDGS) 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.

**Product:** Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Page 24 of 30 SDG: 586276

**Analytical Method:** SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2291773

**Preparation Method:** SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

**Preparation Batch:** 2291768

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

GEL Sample ID#	Client Sample Identification
586276011	AF38191
1205143341	Method Blank (MB)CVAA
1205143342	Laboratory Control Sample (LCS)
1205143345	585226001(NonSDGL) Serial Dilution (SD)
1205143343	585226001(NonSDGD) Sample Duplicate (DUP)
1205143344	585226001 (NonSDGS) 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.

Page 25 of 30 SDG: 586276

Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to | cwillia@santeecooper.com & sibrown@santeecooper.com

# **Chain of Custody**

586276



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

Custom	Customer Email/Report Recipient:			Date I	Results N	by:	Project/Task/Unit #:						Rerun request for any flagg				agge	J Q	
LCW	abworks ID #   Sample Location/			ı	/	/		125	915	J	102.0	9.601.	3650	20	Yes	No			
																	Analysi	is Gro	up
Labwor (Interna only)		Sample Locat Description	ion/	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or	Matrix(see below)	Preservative (see	Me     Re     Mr     Ar	Comnethod # porting limitisc, sample in the context of the context	t nfo		RAD 126/225	TOTAL RAD CALC.	村	
AF38	185	WAP-23		7/13/22	1225	BM	3	P	G	GW	2	Hg-74	70 RL 4	0.200 419	1	2	×	1	
AF381	186	WAP-24	***************************************	1	1231	1		1		1	1						1	1	
AF3816	62	WAP-7		1	1000														
AF3819	87	WAP-25		7/11/22	1030														
AF 3819	88	WAP-26	white the same of		1144														
AF3818	89	WAP-26 DU	IP	1	1146		L	1	1	1	1		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			1		1	
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Relinqu	ished by:	Employee#	Date	Time Received by			l En	mplovee	#	Date	10±3.1 ×	Time	Sample I	Receiving (Inte	ernal U	se Onl	(V)		
Strawa		35594	7/15/22	1130	R.5			Employee # Date  GEL 7/15/22				111116	TEMP (	°C):	1	nitial:			-
Relinqui	ished by:	Employee#	Date	Time	Receive	-		nployee		Date		Time	Correct	pH: Yes	No				
K.5	12		7/15/22	1645	Met	2			1	15.2	7	1645	Preserva	ative Lot#:					
Relinqui	ished by:	Employee#	Date	Time	Receive		En	nployee f		Date		Time							
									22.0	MEAN BARAN	SERVER DA	MATERIAL STREET	Date/Tin	ne/Init for pro	eserva	tive:			
	□ ME	TALS (all)	Niva			Jay S													
□ Ag	□ Cu	□Sb	INULI	rients	MIS	<u>C.</u>			psun	1		Coal		Flyash			Oil		
□ Al	☐ Fe	□ Se	DO		<ul><li>□ BTEX</li><li>□ Napthaler</li></ul>	ne		Wallbox	ard um( <i>al</i>	,,		Ultimate		☐ Ammonia		Tran			
□ As	□ K	□ Sn		TPO4	□ ТНМ/НА			belon				☐ % Moist ☐ Ash	BACCES AND DESCRIPTION OF THE PARTY OF THE P	□ LOI □ % Carbon		Co	Moisti Ior	ire	
□ <b>B</b>	□ Li	□ Sr	□ NH		□ VOC □ Oil & Gre	ase		D AIN				□ Sulfur		☐ % Caroon ☐ Mineral		□ Ac	idity		
□ Ba	□Mg	□ Ti	I F		□ E. Coli			□ TOO	l metal	S		□ BTUs		Analysis	3	Die IF1	lectric S	Strengtl	i.
□Ве	□Mn	D TI	I CI		□ Total Coli □ pH	iform		□ Solu	ble Me	tals		□ Volatile		Sieve		□ Dis	solved	1 Gase	S
□ Ca	□Мо		□ Br		⊒ pH ⊒ Dissolved	l As			ty (CaS loisture		Of	CHN her Tests:		☐ % Moisture		Used			
□ Cd	□ Na	□ Zn	□ NO.	3	Dissolved			□ Sulfi			□X	RF Scan		NPDES			shpoin tals in		
DUADE E			□ \$O4		Rad 226 Rad 228			□ pH □ Chlo	vides		OH	GI ineness		Oil & Grease		(A:	s.Cd.C		Ь
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u U	I LI PD	U CrvI			<b>从香港</b>		D	Sulfur					T. A. T.	TSS	1	GOF			
□ Cr	□РЬ	□ CrVI					0		cie Siz			articulate Ma	A CONTRACTOR OF THE PARTY OF TH						

# **Chain of Custody**

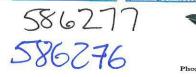
586277

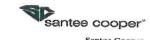


Santee Cooper One Riverwood Drive Moneks Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Custon	Customer Email/Report Recipient:  Compared Compa				Date Results Needed by:					Project/Task/Unit #:					Rerun request for any flagged			
LCWI	abworks ID # Sample Location/ Internal use Description				<i>J</i>	-		125	715	<u>√\</u> _\_	102.0	8.6p1.3	365	Yes	No			
															A	Analys	is Group	
T-109500000000000	Sample Location/ Description  F38/65 WAP-10  F38/64 WAP-9  F38/63 WAP-8  Relinquished by: Employee# Date			Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or	Matrix(see below)	Preservative (see	Mo     Re     Mi     An	ethod # porting lim sc. sample	Comments thod # cc. sample info or other notes				
AF38	165	WAP-10		7/13/20	1322	DEW	3	P	G	GW	2	Hg-74	70 RL	40.200 mg/L	2	×	1	
AF38	166	WAP-10 D	UP		1327			1							1	1		
AF38	64	WAP-9			1434	1												
AF38	163	WAP-8		7/12/22	1153	1	1		1					প্রা	Ţ			
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710													483-000					
			eans.	-														
		wy to the block has been																
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\$1200		35594	7/15/22	1130	K. Si	the	0	SEL		1/16/2	2	1130	TEMP	(°C):	Initial	:		
Relinqu	ished by:	Employee#	Date	Time	Receive	d by:	Em	ployee #		Date		Time	Correc	t pH: Yes No	) i			
V.S.	th		1/15/22	1645	M. At		3		v-	1.15	22	1645	Preserv	ative Lot#:				Section of the second
Relinqu	ished by:	Employee#	Date	Time	Receive	d by:	Em	ployee #		Date		Time						-
							S PRODUCE				SATISSE FIN		Date/Ti	me/Init for presen	ative:			
		TALS (all)	Nutr	ients	MIS	C		GW	osun			Cont						-
□Ag	□ Cu	□ Sb	U TOO	AND POST OF THE PARTY OF THE PA	□ BTEX	<del>``</del>	l n	Wallboa	TO SHOW THE			Coal Ultimate		<u>Flyash</u>		Oil		
□ Al	□ Fe	□ Se	DOC		□ Napthalen			Gyps	um(al	II.	The state of the s	☐ % Moist	ure	☐ Ammonia ☐ LOI		s. Oil Moist		
□ B			☐ TP/I	N	□ THM/HA. □ VOC			below AIN	AND DESCRIPTION OF THE PERSON NAMED IN			□ Ash		☐ % Carbon	□ C	olor cidity		
□ Ba	□ Li	□ Sr	OF		☐ Oil & Grea	ase		□ TOC				☐ Sulfur ☐ BTUs		☐ Mineral Analysis	Di	electric !	Strength	
□ Be					□ Total Coli	form		☐ Tota ☐ Solu				□ Volatile	Matter	□ Sieve	□ IF		d Gases	
□ Ca			□ NO2 □ Br	A CONTRACT OF STREET	□ pH □ Dissolved	As		☐ Purit	ty (CaS	(04)		CHN her Tests:		□ % Moisture	Use	d Oil		
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200000000		□ Zn	□ SO4		☐ Rad 226 ☐ Rad 228			□ pH □ Chlo	ridec			GI ineness		□ Oil & Grease	(4		r.Ni.Pb	
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		I CIVI			A THE WAY	A TOTAL	D	Sulfur						O TSS	GOI	ER		1

## **Chain of Custody**





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

Custome	ustomer Email/Report Recipient:		C	ate F	Results N	eeded b	oy:	Project/Task/Unit #:						Reru	Rerun request for any flagged Q							
LCWILL	LIA		_@santee	cooper.com			, ,	,		129	115		/ JN	102.	08. Gøj.	11369	00	Vai	B1-			
				3.50	-				•			5	<i></i>					Yes	No			
Labworks	10.4						A BILLIANS		11000000		en les							-ili	1	Analys	is Gro	up
(Internal L only)			mple Locati scription	ony	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	• Mo • Re • Mi • An	comethod # porting lim sc. sample y other not	info		KAD 224/228		五	1
AF3811	81	W	AP-19		7/1	3/22	1108	DEW	3	P		6	GW	2	Hg- 74	70 RL	C D.200	ug/L	2	×	1	
AF3819	71	W	BW-AI-	1	7/1	2/22	1044												1	1	1	
A=3819	17	W	LF- A1-5				1358						3			-						
AF3819	72	W	F-A1-1			L	1455	1	1	1		_	1	1						1	Ī	
AF38 9	13	WL	F-A -2		7/1	/22	1338		1					1						1		
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AF3819	15	WL	=- AI - 4				1535															
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AF3817	8	W	HP-17		7/12	122	1235		Į,													
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Relinquish	hed by:		Employee#	Date	Tim	e	Receive	ed by:	E	mploye	e#		Date		Time		Receiving		se On	ly)		
Symoun	i.		35 594	7/15/22	[130		8 5	H		GEL		7	15/2	2	1130	TEMP	(°C):	]	nitial	-	-	-
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R. Su.	12			1/15/22	160	K	MAT				ust let	1	-15-2	12	1645	Preser	vative Lot#	<b>#:</b>				
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	□ ME	TA	LS (all)	Nut	rient		BAIC	~		6									-			
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□В	□ Li		□ Sr	□NH	3-N		□ VOC □ Oil & Gre	ase		O A					□ Sulfur		☐ % Carb ☐ Mineral		□ A	idity		
□ Ba	□ Mg		□ Ti	DF			□ E. Coli	use		□ To		etals			□ BTUs			lysis	Die D IF		Strengt	li.
□ Be	□ Mn	STIP.	□ TI	II CI	2		☐ Total Coli ☐ pH	form	Yes	□ So	luble	Meta	als		□ Volatile	Matter	□ Sieve		D Di	ssolve	d Gas	es
□ Ca	□ Mo	2012.0	□ V	D Br			□ pri □ Dissolved	As		□ Pu □ %				0	☐ CHN ther Tests:		□ % Mois	ture		d Oil		
□ Cd	□ Na	200		UNO.			☐ Dissolved			□ Su					XRF Scan		NPDE			ashpoi etals ii		
	LANCE OF STREET		□ Zn	□ SO4		A STATE OF THE PARTY OF THE PAR	□ Rad 226 □ Rad 228			□pH					HGI	A PARTY	Oil & Gre	NAME OF BRIDE	(A	s.Cd.	Cr.Ni,I	Pb
□ Co	□ Ni		□ Hg				□ PCB			□ Ch □ Par				THE RESERVE OF	Fineness Particulate Ma	itter	□ As	cuse	H			
□ Cr	□ РЬ	15/5	☐ CrVI	and the					E	Sulfur							□ TSS		GOI			

5.0.0		SDG/AI	/COC/Work Order: 586275/586201/	
568P			1.15.72	
d By: MAS		Date K	FedEx Express FedEx Ground UPS Field Services Courie	Other
		21	Tetter and	
, m - dina Number				
rrier and Tracking Number				
			Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group	for further investigation.
	Yes	2 *If Ne	Counts > 100cpm on samples not marked "radioactive", contact the samples	
ted Hazard Information	-			
		/ 1	If UN2910, is the Radioactive output	
oped as a DOT Hazardous?	-		notation or radioactive stickers on containers equal client designation.	10
the client designate the samples are to be		COC	And Registrough Counts): CP	M/mR/Hr
ed as radioactive?		Max	mum Net Counts Observed* (Observed Counts - Area Background Counts):  Classified as: Rad 1 Rad 2 Rad 3	
d the RSO classify the samples as	1	1/1	Classified as: Add 1	4710040
active?		/ coo	notation or hazard labels on containers equal client designation.	
id the client designate samples are hazardous	7	If D	or F is was select Hazards below. DORA Arbestos Beryllium Other:	
		1	PCB's Flammable 1000 1000 1000 1000 1000 1000 1000 10	ems)
old the ASO centify possible hazards?	-	VZ Z	Comments/Qualifiers (Required for Non-Conforming Its  Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	14 1 2
Sample Receipt Criteria	_			
Shipping containers received intact and	1	Pile.	Circle Applicable: Client contacted and provided COC COC creates upon receipt	2 PG
sealed? Chain of custody documents included	-		Circle Applicable: Cuent connects	24.
with shipment?		THE PERSON NAMED IN	Preservation Method: Wet lee lee Packs Dry ice (None ) Other:	TEMP: 26
is in cold preservation	1		*all temperatures are recorded in Constant	1
	-	F-5-7	Temperature Device Serial #: T.P. 4 - 12. Secondary Temperature Device Serial # (If Applicable): Secondary Temperature Device Serial # (If Applicable): Secondary Temperature Device Serial # (If Applicable): Secondary Temperature Device Serial # (If Applicable):	
Daily check performed and passed on	IR		Secondary Temperature Device Senai in (17 Application	0
temperature gun?	-	/	Circle Applicable: Seats broken	
Sample containers intact and sealed?		1	Sample ID's and Containers Affected:	7.27
Samples requiring chemical preserva	ion	/	Of one take	to VOA Freezer)
at proper pH?		1247	If Preservation added, Low:  If Yes, are Encores or Soil Kits present for solids? Yes No NA (II yes, nate I) Preservation? Yes No NA (II unknown, I) Do liquid VOA vials contain acid preservation? Yes No NA (II unknown, I) Preservation? Yes No NA (II unknown, III unknown, I) Preservation? Yes No NA (II unknown, III u	select No)
			Do liquid VOA vials free of headspace? Yes No NA	3
7 Do any samples require Volatile Analysis?			Sample ID's and containers affected:	
7 7000			1D's and tests affected:	
	ne?		In Section 2	
8 Samples received within holding tir		-	1D's and containers affected:	HCC TO SECURE
Sample ID's on COC match ID's on			Circle Applicable: No dates on comainers  No times on containers  COC missing in	nfo Other (describe)
1 7 11 -11/00/			Circle Applicable: No dates on containers	
Date & time on COC match date &	2 (1111)		Circle Applicable: No container count on COC Other (describe)	
on bottles?  Number of containers received ma	tch		Circle Applicable: 10 communication	
11 Number of containers recorded number indicated on COC?				
	as als?		Man Not prinquished Other (describe)	* *
GEL provided by use of GEL	CIS!		Circle Applicable: Not relinquished Other (describe)	
13 COC form is properly signed in relinquished/received sections?	1 "	1		
relinquished/received sections:  Comments (Use Continuation Form if nee	ded):		35	
			3	*
				No. Contract
			1/ Star Page of	1

Page 29 of 30 SDG: 586276

List of current GEL Certifications as of 25 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
	SC000122021-36
Litah NIFI AD	1 MANNATE AND 10 10 10 10 10 10 10 10 10 10 10 10 10
Utah NELAP Vermont	The state of the s
Utah NELAP Vermont Virginia NELAP	VT87156 460202











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

gel.com

September 01, 2022

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

Re: ABS Lab Analytical Work Order: 589538

Dear Ms. Gilmetti:

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

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

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

Sincerely,

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: 589538 GEL Work Order, 589538

### 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.

	Inlie	Roberson	
Reviewed by			

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

**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: September 1, 2022

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: AF38185
Sample ID: 589538001
Matrix: Ground Water
Collect Date: 13-JUL-22 12:25

Receive Date: 15-JUL-22 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	2.14	+/-1.65	2.62	3.00	pCi/L		JXC9	08/30/22	1202 2303555	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		4.19	+/-1.73			pCi/L		NXL1	09/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.05	+/-0.516	0.449	1.00	pCi/L		LXP1	08/09/22	0901 2306991	3

The following Analytical Methods were performed:

Description

2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recove	erv Test	Result	Nominal	Recoverv%	Acceptable Limits

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

57.3 (15%-125%)

#### Notes:

Method

1

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

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 3 of 30 SDG: 589538

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: September 1, 2022

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: AF38186

Sample ID:

589538002

Matrix: Collect Date: Receive Date: Ground Water 13-JUL-22 15:31 15-JUL-22

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	-0.120	+/-0.780	1.55	3.00	pCi/L		JXC9 08/30/22	1202 2303555	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		1.01	+/-0.868			pCi/L		NXL1 09/01/22	0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		1.01	+/-0.381	0.427	1.00	pCi/L		LXP1 08/09/22	0901 2306991	3
The following Analytic	al Methods w	ere perfo	ormed:							
Method	Description					1	Analys	st Comments		

207 E 1000000000	\$1000000000 to 100000 \$1000 \$1000 \$100 \$100 \$100			250 F 18	00 230 P G 2 20 P F
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	903.1 Modified				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%) 76.4

Notes:

1

2

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

Calculation

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 30 SDG: 589538

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

**Certificate of Analysis** 

Report Date: September 1, 2022

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Matrix:

Ms. Jeanette Gilmetti ABS Lab Analytical

Client Sample ID: Sample ID:

AF38162 589538003 Ground Water

Collect Date:

13-JUL-22 10:00 15-JUL-22

Project: SOOP00119 Client ID: SOOP001

Receive Date: 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	1.34	+/-1.38	2.30	3.00	pCi/L		JXC9 08/30/2	2 1202 2303555	1
Radium-226+Radium-2	28 Calculatio	n "See Pa	arent Products"							
Radium-226+228 Sum		2.84	+/-1.47			pCi/L		NXL1 09/01/2	2 0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		1.50	+/-0.496	0.500	1.00	pCi/L		LXP1 08/09/2	2 0901 2306991	3
The following Analytic	al Methods w	ere perfo	rmed:							
Method	Description					1	Analys	st Comments		

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 (15%-125%)

Barium-133 Tracer

GFPC, Ra228, Liquid "As Received"

72.6

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 5 of 30 SDG: 589538

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

Project:

Client ID:

Analyst Comments

**Certificate of Analysis** 

Report Date: September 1, 2022

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: AF38187 Sample ID: 589538004 Matrix: Ground Water Collect Date: 11-JUL-22 10:30

Receive Date: 15-JUL-22 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"										
Radium-228	U	1.67	+/-1.34	2.15	3.00	pCi/L		JXC9	08/30/22	1202 2303555	1
Radium-226+Radium-	-228 Calculatio	n "See Par	rent Products"								
Radium-226+228 Sum		2.84	+/-1.39			pCi/L		NXL1	09/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		1.18	+/-0.366	0.289	1.00	pCi/L		LXP1	08/09/22	0901 2306991	3
The following Analyt	ical Methods w	zere perfor	med:								

Method

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" 71.6 (15%-125%)

## Notes:

1

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 6 of 30 SDG: 589538

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**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: September 1, 2022

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: AF38188
Sample ID: 589538005
Matrix: Ground Water
Collect Date: 11-JUL-22 11:41

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	3									
GFPC, Ra228, Liquid	"As Received'	ļ.									
Radium-228	U	1.47	+/-1.10	1.72	3.00	pCi/L		JXC9	08/30/22	1202 2303555	1
Radium-226+Radium-	-228 Calculatio	n "See Pa	rent Products"								
Radium-226+228 Sum		3.07	+/-1.18			pCi/L		NXL1	09/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ived"									
Radium-226	252	1.60	+/-0.423	0.215	1.00	pCi/L		LXP1	08/09/22	0901 2306991	3
T1 C-11:		c.	1								

The following Analytical Methods were performed:

Description

2 Ca	alculation				
3 EP	PA 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 75.2 (15%-125%)

## Notes:

Method

1

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

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** 

Report Date: September 1, 2022

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: AF38189
Sample ID: 589538006
Matrix: Ground Water
Collect Date: 11-JUL-22 11:46
Receive Date: 15-JUL-22

Client ID: SOOP001

SOOP00119

Project:

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	0.769	+/-1.15	1.98	3.00	pCi/L		JXC9	08/30/22	1203 2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		1.76	+/-1.20			pCi/L		NXL1	09/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	id "As Recei	ved"									
Radium-226		0.991	+/-0.352	0.330	1.00	pCi/L		LXP1	08/09/22	0901 2306991	3
The following Analytics	al Methods w	ere perfo	rmed:								

Method Description Analyst Comments

EPA 904.0/SW846 9320 Modified

2 Calculation 3 EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

76.7 (15%-125%)

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

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 8 of 30 SDG: 589538

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**Certificate of Analysis** 

Report Date: September 1, 2022

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

OCO3

15-JUL-22 Client

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

AF38165 Client Sample ID: Sample ID: 589538007 Matrix: Ground Water Collect Date: 13-JUL-22 13:22

Receive Date: Collector:

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportional Counting										
GFPC, Ra228, Liquid ".	As Received"									
Radium-228	U	-0.544	+/-1.45	2.76	3.00	pCi/L		JXC9 08/30/2	2 1203 2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		2.10	+/-1.51			pCi/L		NXL1 09/01/2	2 0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, Liquid "As Received"										
Radium-226		2.10	+/-0.439	0.249	1.00	pCi/L		LXP1 08/09/2	2 0901 2306991	3
The following Analytical Methods were performed:										

Method Description 1 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" 70.1 (15%-125%)

Analyst Comments

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 9 of 30 SDG: 589538

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

**Certificate of Analysis** 

Report Date: September 1, 2022

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: Sample ID: AF38166 589538008

Matrix:

Ground Water 13-JUL-22 13:27 15-JUL-22 Project: Client ID:

SOOP00119 SOOP001

Collect Date: 13-JUI
Receive Date: 15-JUI
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	F DF Analyst Date		Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	1.54	+/-1.48	2.43	3.00	pCi/L		JXC9 08	/30/22	1203 2303555	1
Radium-226+Radium-2	arent Products"										
Radium-226+228 Sum		3.70	+/-1.56			pCi/L		NXL1 09	/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.17	+/-0.504	0.227	1.00	pCi/L		LXP1 08	/09/22	0933 2306991	3
The following Analytic	cal Methods w	ere perfo	ormed:								

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation

3 EPA 903.1 Modified

Surrogate/Tracer Recovery
Barium-133 Tracer

Notes:

Test

GFPC, Ra228, Liquid "As Received"

Result Nominal

Recovery%

Analyst Comments

Acceptable Limits

63.7

(15%-125%)

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

Column headers are defined as follows:Lc/LC: Critical LevelDF: Dilution FactorLc/LC: Critical LevelDL: Detection LimitPF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 10 of 30 SDG: 589538

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

**Certificate of Analysis** 

Report Date: September 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38164
Sample ID: 589538009
Matrix: Ground Water
Collect Date: 13-JUL-22 14:34
Receive Date: 15-JUL-22

Client

Client ID: SOOP001

SOOP00119

Project:

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting									3.
GFPC, Ra228, Liquid ".	As Received"									
Radium-228	U	0.672	+/-1.55	2.72	3.00	pCi/L		JXC9 08/30/22	1203 2303555	1
Radium-226+Radium-2										
Radium-226+228 Sum		1.20	+/-1.57			pCi/L		NXL1 09/01/22	0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226		0.525	+/-0.290	0.382	1.00	pCi/L		LXP1 08/09/22	0933 2306991	3
The following Analytic	al Methods w	ere perfo	rmed:							

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	-

2 Calculation 3 EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

66.2 (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 11 of 30 SDG: 589538

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

**Certificate of Analysis** 

Report Date: September 1, 2022

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:

AF38181

Sample ID: Matrix:

589538010 Ground Water 13-JUL-22 11:08

Collect Date: Receive Date: Collector:

15-JUL-22 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Dat	e Time Batch	Method
Rad Gas Flow Proportion	onal Counting	5								
GFPC, Ra228, Liquid ".	As Received"									
Radium-228	U	1.46	+/-1.26	2.05	3.00	pCi/L		JXC9 08/30/	22 1203 2303555	1
Radium-226+Radium-2										
Radium-226+228 Sum		1.94	+/-1.31			pCi/L		NXL1 09/01/	22 0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226	U	0.479	+/-0.332	0.484	1.00	pCi/L		LXP1 08/09/	22 0933 2306991	3
The following Analytic	eal Methods w	ere perfo	ormed:							

Method Description

	_ coerrporerr
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75	(15%-125%)

Barium-133 Tracer

GFPC, Ra228, Liquid "As Received"

Analyst Comments

Project:

Client ID:

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 12 of 30 SDG: 589538

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

**Certificate of Analysis** 

Report Date: September 1, 2022

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: AF38191
Sample ID: 589538011
Matrix: Ground Water
Collect Date: 12-JUL-22 10:44
Receive Date: 15-JUL-22

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	F DF Analyst Dat		Time Batch	Method
Rad Gas Flow Proportion	onal Counting										
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	0.975	+/-1.23	2.08	3.00	pCi/L		JXC9 0	08/30/22	1203 2303555	1
Radium-226+Radium-2											
Radium-226+228 Sum		3.10	+/-1.32			pCi/L		NXL1 0	9/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		2.12	+/-0.474	0.251	1.00	pCi/L		LXP1 0	8/09/22	0933 2306991	3
The following Analytic	eal Methods w	ere perfo	rmed:								

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified2Calculation

3 EPA 903.1 Modified

Collector:

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

76.8 (15%-125%)

Notes:

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

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Report Date: September 1, 2022

SOOP00119

SOOP001

Company: Address:

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Project:

Ms. Jeanette Gilmetti

Client Sample ID:

ABS Lab Analytical AF38197

Sample ID:

589538012

Matrix: Collect Date: Ground Water 12-JUL-22 13:58 15-JUL-22

Receive Date: 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	0.477	+/-1.46	2.59	3.00	pCi/L		JXC9 08/30/22	1203 2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		0.816	+/-1.48			pCi/L		NXL1 09/01/22	0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"								
Radium-226	U	0.339	+/-0.255	0.375	1.00	pCi/L		LXP1 08/09/22	0933 2306991	3
The following Analytic	al Methods w	ere perfo	ormed:							
Method	Description					1	Analys	st Comments		

1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

3	EPA	EPA 903.1 Modified							
Surrogate/Trace	er Recovery	Test							

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

Project:

Client ID:

Recovery% Acceptable Limits 74.3

(15%-125%)

Notes:

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

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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**Certificate of Analysis** 

Project:

Client ID:

Analyst Comments

Report Date: September 1, 2022

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: AF38192
Sample ID: 589538013
Matrix: Ground Water
Collect Date: 12-JUL-22 14:55

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	F DF Analyst Dat		Time Batch	Method
Rad Gas Flow Proport	tional Counting	5									a
GFPC, Ra228, Liquid	"As Received"										
Radium-228	U	0.572	+/-1.34	2.36	3.00	pCi/L		JXC9	08/30/22	1203 230355	5 1
Radium-226+Radium-	Radium-226+Radium-228 Calculation "See Parent Products"										
Radium-226+228 Sum		0.762	+/-1.36			pCi/L		NXL1	09/01/22	0836 2306993	2 2
Rad Radium-226											
Lucas Cell, Ra226, Lie	quid "As Recei	ved"									
Radium-226	U	0.189	+/-0.254	0.437	1.00	pCi/L		LXP1	08/09/22	0933 230699	1 3
The following Analyt	ical Methods w	zere perfo	rmed:								

The following Analytical Methods were performed:

Method Description

2 Calculation				
3 EPA 903.1 Modified				
Surrogate/Tracer Recovery Test	Result	Nominal	Recovery%	Acceptable Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 73.6 (15%-125%)

#### Notes:

1

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: September 1, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38193
Sample ID: 589538014
Matrix: Ground Water
Collect Date: 11-JUL-22 13:38
Receive Date: 15-JUL-22

Client

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		1.91	+/-1.19	1.81	3.00	pCi/L		JXC9	08/30/22	1203 2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		2.80	+/-1.23			pCi/L		NXL1	09/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		0.885	+/-0.312	0.272	1.00	pCi/L		LXP1	08/09/22	0933 2306991	3
The following Analytic	al Methods w	ere perfo	ormed:								

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation

3 EPA 903.1 Modified
Surrogate/Tracer Recovery Test Result Nominal Recovery% A

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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:

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** 

Report Date: September 1, 2022

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: Sample ID: AF38194

Matrix:

589538015 Ground Water 11-JUL-22 14:41 15-JUL-22 Project: Client ID:

SOOP00119 SOOP001

Collect Date:
Receive Date:
Collector:

15-JUL-2 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method	
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	1.52	+/-1.21	1.93	3.00	pCi/L		JXC9 08/30/2	2 1203 2303555	1	
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		2.49	+/-1.26			pCi/L		NXL1 09/01/2	2 0836 2306992	2	
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226		0.963	+/-0.370	0.343	1.00	pCi/L		LXP1 08/09/2	2 1007 2306991	3	
The following Analytic	The following Analytical Methods were performed:										
Method	Description					Ŋ	Analys	st Comments			

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation

3 EPA 903.1 Modified

Surrogate/Tracer Recovery	Test

GFPC, Ra228, Liquid "As Received"

Result Nominal

Recovery%

Acceptable Limits

.2 (15%-125%)

Notes:

Barium-133 Tracer

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

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: September 1, 2022

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: AF38195 Sample ID: 589538016 Matrix: Ground Water Collect Date: 11-JUL-22 15:35

Receive Date: 15-JUL-22 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 "A	As Received"										
Radium-228		2.39	+/-1.24	1.77	3.00	pCi/L		JXC9 08	3/30/22	1203 2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		2.88	+/-1.27			pCi/L		NXL1 09	9/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226		0.493	+/-0.274	0.337	1.00	pCi/L		LXP1 08	3/09/22	1007 2306991	3
The following Analytic	The following Analytical Methods were performed:										

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	<del>-</del>

2 Calculation EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 68.8 (15%-125%)

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

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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Project:

Client ID:

Analyst Comments

**Certificate of Analysis** 

Report Date: September 1, 2022

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: AF38196
Sample ID: 589538017
Matrix: Ground Water

Collect Date: 11-JUL-22 15:40
Receive Date: 15-JUL-22
Collector: Client

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	U	0.604	+/-0.922	1.60	3.00	pCi/L		JXC9	08/30/22	1203 2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		0.982	+/-0.965			pCi/L		NXL1	09/01/22	0836 2306992	2
Rad Radium-226											
Lucas Cell, Ra226, Liq	uid "As Recei	ved"									
Radium-226	U	0.378	+/-0.285	0.418	1.00	pCi/L		LXP1	08/09/22	1007 2306991	3
The following Analytic	cal Methods w	ere perfo	ormed:								

Method Description

2	Calculation				
3	EPA 903.1 Modified				
Surrogate/Tracer Recov	very Test	Result	Nominal	Recoverv%	Acceptable Limi

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limit Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 73.7 (15%-125%)

#### Notes:

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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Project:

Client ID:

**Certificate of Analysis** 

Report Date: September 1, 2022

SOOP00119

SOOP001

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

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Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38178
Sample ID: 589538018
Matrix: Ground Water
Collect Date: 12-JUL-22 12:35

Receive Date: 15-JUL-22 Collector: Client

Parameter	Qualifier	Result U	Incertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Rad Gas Flow Prop	oortional Counting									
GFPC, Ra228, Liq	uid "As Received"									
Radium-228		1.93	+/-1.16	1.73	3.00	pCi/L		JXC9 08/30/22	1203 2303555	1
Radium-226+Radio	um-228 Calculation	n "See Pare	ent Products"							
Radium-226+228 Sum		2.97	+/-1.21			pCi/L		NXL1 09/01/22	0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226,	, Liquid "As Receiv	red"								
Radium-226		1.04	+/-0.332	0.242	1.00	pCi/L		LXP1 08/09/22	1007 2306991	3
The following Ana	alytical Methods w	ere perforn	ned:							
Method	Description			•	·	1	Analys	st Comments	·	

Story and "Construction of the Construction of	ATTENDED AND THE TREET OF THE TOTAL TOTAL AND THE TOTAL TOTAL AND THE TO			37300 (56)	
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
	903.1 Modified				

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

71.5 (15%-125%)

#### Notes:

1

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

EPA 904.0/SW846 9320 Modified

Calculation

Column headers are defined as follows:

DF: Dilution Factor Lc/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: September 1, 2022

DF Analyst Date Time Batch Method

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

OCO3

Moncks Corner, South Carolina 29461

Result Uncertainty

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF38179
Sample ID: 589538019
Matrix: Ground Water
Collect Date: 12-JUL-22 12:40

Qualifier

Receive Date: 15-JUL-22 Collector: Client

Project:	SOOP00119
Client ID:	SOOP001

Rad Gas Flow Propor	rtional Counting									
GFPC, Ra228, Liquio	d "As Received"									
Radium-228	U	2.40	+/-1.57	2.46	3.00	pCi/L	JXC9	08/30/22	1204 2303555	1
Radium-226+Radium	1-228 Calculation '	See Pare	nt Products"							
Radium-226+228 Sum		3.09	+/-1.60			pCi/L	NXL1	09/01/22	0836 2306992	2
Rad Radium-226										
Lucas Cell, Ra226, L	iquid "As Receive	d"								
Radium-226		0.691	+/-0.330	0.407	1.00	pCi/L	LXP1	08/09/22	1007 2306991	3
The following Analy	rtical Methods wer	e perforn	red:							
Method	Description					Analy	st Comment	s		
1	EPA 904.0/SW84	6 9320 Mo	dified			-				
2	Calculation									

MDC

RL

Units

PF

Calculation
3 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

70.8 (15%-125%)

#### **Notes:**

Parameter

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 1, 2022

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 589538

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Gas Flow Batch 230355	5									
QC1205165059 589 Radium-228	9538002 DUP	U Uncertainty	-0.120 +/-0.780	U	0.892 +/-1.30	pCi/L	N/A		N/A JXC9	08/30/22 12:02
QC1205165060 I Radium-228	LCS	44.7 Uncertainty			42.8 +/-3.41	pCi/L		95.8	(75%-125%)	08/30/22 12:02
QC1205165058 I Radium-228	MB	Uncertainty		U	-0.632 +/-0.815	pCi/L				08/30/22 12:02
Rad Ra-226 Batch 230699	1.									-R
QC1205171938 589 Radium-226	9538001 DUP	Uncertainty	2.05 +/-0.516		2.08 +/-0.464	pCi/L	1.09		(0%-20%) LXP1	08/09/22 10:07
QC1205171940 I Radium-226	LCS	26.5 Uncertainty			23.4 +/-1.50	pCi/L		88.3	(75%-125%)	08/09/22 10:39
QC1205171937 I Radium-226	MB	Uncertainty		U	0.196 +/-0.226	pCi/L				08/09/22 10:07
QC1205171939 589 Radium-226	9538001 MS	132 Uncertainty	2.05 +/-0.516		102 +/-7.61	pCi/L		75.5	(75%-125%)	08/09/22 10:39

#### Notes:

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

The Qualifiers in this report are defined as follows:

\*\* Analyte is a Tracer compound

< Result is less than value reported

> Result is greater than value reported

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

FA Failed analysis.

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## **QC** Summary

Workorder: 589538 Page 2 of 2 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Η Analytical holding time was exceeded J See case narrative for an explanation Value is estimated K Analyte present. Reported value may be biased high. Actual value is expected to be lower. L Analyte present. Reported value may be biased low. Actual value is expected to be higher. Μ M if above MDC and less than LLD M REMP Result > MDC/CL and < RDL N/A RPD or %Recovery limits do not apply. N1 See case narrative ND Analyte concentration is not detected above the detection limit NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier One or more quality control criteria have not been met. Refer to the applicable narrative or DER. Q R Sample results are rejected U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD. UI Gamma Spectroscopy--Uncertain identification Gamma Spectroscopy--Uncertain identification UJ UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias. X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier Y Other specific qualifiers were required to properly define the results. Consult case narrative. Λ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

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

Preparation or preservation holding time was exceeded

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 #: 589538

Product: GFPC, Ra228, Liquid

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

**Analytical Batch:** 2303555

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

GEL Sample ID#	Client Sample Identification
589538001	AF38185
589538002	AF38186
589538003	AF38162
589538004	AF38187
589538005	AF38188
589538006	AF38189
589538007	AF38165
589538008	AF38166
589538009	AF38164
589538010	AF38181
589538011	AF38191
589538012	AF38197
589538013	AF38192
589538014	AF38193
589538015	AF38194
589538016	AF38195
589538017	AF38196
589538018	AF38178
589538019	AF38179
1205165058	Method Blank (MB)
1205165059	589538002(AF38186) Sample Duplicate (DUP)
1205165060	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: 2306991

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

GEL Sample ID#	Client Sample Identification
589538001	AF38185
589538002	AF38186
589538003	AF38162
589538004	AF38187
589538005	AF38188
589538006	AF38189
589538007	AF38165
589538008	AF38166
589538009	AF38164
589538010	AF38181
589538011	AF38191
589538012	AF38197
589538013	AF38192
589538014	AF38193
589538015	AF38194
589538016	AF38195
589538017	AF38196
589538018	AF38178
589538019	AF38179
1205171937	Method Blank (MB)
1205171938	589538001(AF38185) Sample Duplicate (DUP)
1205171939	589538001(AF38185) Matrix Spike (MS)
1205171940	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, 1205171939 (AF38185MS), 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 25 of 30 SDG: 589538

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 7

/ 25 / 22 Send report to Icwillia@santeecooper.com & sibrown@santeecooper.com

# **Chain of Custody**

586277



Santee Coope One Riverwood Drive Moneks Corner, SC 2946) Phone: (843)761-8000 Ext. 5148 Fax: (843)761-417

Customer	Email,	/Report Recip	ient:	Date	Results N	eeded i	oy:		P	roject,	/Task/	'Unit #:	Rerun reques	t for a	ny fl	agge	d QC
LCWIL	LIA	@santee	cooper.com		J			125	915	<u> </u>	402.0	9.G01.1	<u>√365∞</u> (Yes)	No			
															Analys	is Gro	up
Labworks II (Internal us only)	0.025.92.000.00	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	Met     Rep     Miss     Any	Comments thod # orting limit > sample info other notes	RAD 226/228	TOTAL RAD CALC.	表	
AF3518	35	WAP-23		7/13/22	1225	DEW DEW	3	Р	G	GW	2		RL 4 0.200 Mg/L	2	X	1	
VE32186	6	WAP-24		1	1231	1		1	1	1		1		1	1		
AF38162	-	WAP-7		上	1000												
AF38187	f I	WAP-25		7/11/22	1030												
AF 38188		WAP-26		1	114-1										$\top$		
AF38189		WAP-26 DU	P	1	1146	<u></u>		1	_								
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Marie Transcription of the Property of the Pro																	
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Styroun		35594	7/15/22	1130		H		SEL		/15/2	7	1130	TEMP (°C):	Initial:			
Relinquishe	ed by:	Employee#	Date	Time	Receive	1	1100	ployee t		Date	-	Time	Correct pH: Yes No				
K.SA	て し		7/15/22	1645	m XL				1/2.	15-2	-7 1	645	Preservative Lot#:				
Relinquished	d by:	Employee#	Date	Time	Receive	d by:	Em	ployee #		Date		Time					
					The state of the s								Date/Time/Init for preserva	itive:			
□Ag	□ Cu	ALS (all)	Nutr	<u>ients</u>	MIS	<u>C.</u>		<u>Gyr</u> Waliboa	<u>isum</u>			Coal	<u>Flyash</u>		<u>011</u>		
	□ Fe □ K	□ Se	DO(	3	☐ Napthalen			Gyps	um( <i>all</i>			<mark>Iltimate</mark> □ % Moistur	C Ammonia e ELOI	Tran	s. Oil Moisic		
	⊔ k. □ Li	□ Sn	TP/	I-N	□ THM/HA. □ VOC			below U AIN	ELECTION OF STREET			□ Ash	🖸 % Carbon	Co			
	□ Mg		— F		□ Oil & Grea □ E. Coli	ase		о тос				□ Sulfur □ BTUs	□ Mineral Analysis	Diel	ectric i	drenyth	
		□ Ti	CI		□ Total Coli	form			l metals ble Met			□ Volatile M		IF T Dis		l Gase	,
	□ Mn	□ m	NO2		□ pH □ Dissolved	As		O Purit	y (CaSt		13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHN	☐ % Moisture	Used	Oil		
	□ Mo	□ V	NO3		☐ Dissolved			□% M □ Sulfi				i <b>er Tests:</b> RF Scan	NPDES		dipoin tals in		
	□ Na	□ Zn	SO4	000000000000000000000000000000000000000	□ Rad 226 □ Rad 228			□ pH □ Chlo	eidae		OH	GI neness	DOIL& Grease	(A)	Cd.C	r.Ni.P	h
	□ Ni □ Pb	☐ Hg ☐ CrVI			□РСВ			🗆 Partic				netiess irticulate Matte	er DIAs	Hg TX			
1	~ ~	1 50,11					J	Sulfur			<u> </u>		TI TSS	GOF	:R		

# **Chain of Custody**

586277

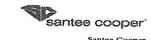


Santee Cooper One Riverwood Drive Moneks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Custome	er Email	/Report	Recipi	ent:	Date	Results No	eeded b	γ;		P	roject/	Task/	Unit #:	Rerun request	for a	ny fla	gged	l QC
LCWIL	UA	@s	antee	cooper.com		<i></i>			125	715	<u> </u>	102.0	8.GB1-3	3650c (Yes)	No			
															E	<u>\nalysi</u>	s Grou	Œ
Labwork (Internal only)	a Control of the Santa Santa Santa	Sample Descrip		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)	Metho     Repor     Misc.     Any o	Comments  od #  ting limit  sample info ther notes	RAD 226/228	TOTAL RAD CALC.	走	
AF381	65	WAP-	-10	***************************************	7/13/20	1322	DEW	3	P	G	GW	2	Hg-747D	RL 40.200 ug/L	2	×	ı	
AF381	66	WAP-	10 D	4P		1327			1			1				1	1	
AF3816	-4	WAP-	7	***************************************		14-34	1											
AF-981	63	WAP-	8		7/12/22	1123	1	<u> </u>						F)B		1	1	
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Algron		355	94	7/15/22	1130	K. S.	HL	0	SEL	7	/16/2	2	llao		(muai:			
Relinquis	hed by:	Emplo	oyee#	Date	Time	Receive	d by:	Em	iployee f	1	Date		Time	Correct pH: Yes No				
K-Sv	4h			115/22	1645	MA	and the same of th			7	1157	22	1645	Preservative Lot#:				
Relinquis	hed by:	Emplo	oyeell	Date	Time	Receive	d by:	Em	iployee #		Date		Time					
						OTAL AND CATION NAMED AND THE OTHER PROPERTY.								Date/Time/Init for preserva	tive:			
		FALS (		Nutr	ients	MIS	c.		Gvi	sum	ı		Coal	-1		Ail		
□ <b>Ag</b> □ <b>Al</b>	□ Cu	CATACON CONTROL AND CONTROL	Sb	TOC	The state of the s	□ BTEX	<del>=</del>	∥ n	<del></del> Walibos			1	Itimate	<u>Flyash</u>	r	<u>011</u> 		
	□ Fe		Se	DO0	9	□ Napthalen				um(ali	1	DA CONSTRUCTOR	/////////////////////////////////////	Cl Anunonia		s, can Meisti		
□ As	DΚ	U	Sn	TP/		☐ THM/HA. ☐ VOC	A		below			O BEST STATES	□ Ash	□ % Carbon	Co			
□В	□ Li		Sr	II NH3	Charles and the Control of the Contr	Oil & Gre	ase		U AIN				□ Sulfur	© Mineral		idiry Jeografie S	trength	
□ Ba	□Mg	ο,	Ti	Ci		□ E. Coli □ Total Coli	Com-		🛮 Tota	l metals		SA MANAGEMENT AND AND AND AND AND AND AND AND AND AND	□ BTUs □ Volatile Ma	Analysis	1171			
□ Be	□Mn	D.	TI	□ NO2		□ pH □ pH	IOFIN			ble Mei y (CaSi			□ voiatne ivia □ CHN	tter ☐ Sieve ☐ % Moisture	Dis User		Gaser	
□ Ca	□Мо		v	Br		☐ Dissolved			0 % M	oisture		Ott	ier Tests:	Te va vito Guito		shpein	1	
□ Cd	□Na			II NO3		☐ Dissolved ☐ Rad 226	re		C Sulfi	tes		1 (30) (60) (60)	RF Scan	NPDES	Me	tals in	oil	
□ Co	□ Ni			- 1304		□ Rad 228			□ pH □ Chlo	rides		∥ □H □Fi	oi neness	□ Oil & Grease	in He		t.Ni.Pl	
□ Cr		D)	ng CrVI	-		□ PCB			🖰 Parti	cle Size	۲		rticulate Matter	UAS UTSS	1.3			
		1						J <u></u>	Sulfur			JL			COF	E-4E		

# **Chain of Custody**

586277



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

Customer	Email/	Report Recip	ient:	Date	e Results N	eeded b	y:		P	roject/	Task/	Unit #:	Rerun	request	for ar	ıy fla	iggeo	d Q
LCWILLI	IA	@santee	cooper.com					1291	5	<u>/_</u> J~	102.0	8. 6ø1.1	/ <u>36500</u>	(Yes)	No			
															A	nalys	is Gro	10
Labworks II (Internal us only)		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	Meth     Repo     Misc     Any	Comments od # rting limit . sample info other notes		RAD 224/228	POTAL PAP GALC	T	
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AF-3819:	2	WLF-AI-1		1 1	1455	1	<u> </u>	Ţ	Ĺ	1	1	~***					ļ	
AF38193	3	WLF-A1-2		7/11/20	2 1338	1	1											
AF3819	4	WLF-41-3			144)													
AF3819	5 4	NLF- A1 - 4			1232				$\downarrow$									
AF38196	<u> </u>	WLF-M-4	bup	1-	1540													
AF38178		WAP-17	·	7/12/20	2 1235													
AF3817	י וי	WAP-17 D	YP	1	1240	Ţ	<u> </u>								1		1	
Relinguishe  Motor  Relinguishe  Relinguishe	ed by:	Employee# 35574 Employee# Employee#	Date  1/15/22  Date  1/13/22  Date	Time (130 Time // US Time	Receive Receive	H ed by:	E	mployee GEL mployee	#	Date	2 1	Time U30 Time U45 Time	Sample Receiving ( TEMP (°C):  Correct pH: Ye  Preservative Lot#	s No	se Onl nitial:			_
					1	William Company and a second and a second and a second and a second and a second and a second and a second and							Date/Time/Init for	preserva	tive:			
□ Ag □ AI □ As □ Ba □ Be □ Ca □ Cd □ Co	ME'1   Cu	[ALS (all )	TO DC	C /TPO4 13-N 2	MIS  DISTANCE  DISTANCE  THM/HA  VOC  Oil & Gn  E. Coli  Total Col  pH  Dissolvet  Dissolvet  Rad 226  Rad 228  PCB	ne AA case iform		Wallbo Gyps below  All TOO Tota TSold Pun  % M  Sulf EpH  Chle	sum(a) M C all metal able Me aty (CaS Aoisture lites	S stals GO4)	Otto	Coal  Ditimate  □ % Moistur  □ Ash □ Sulfur □ BTUs □ Volatile M □ CHN her Tests: RF Scan IGI ineness articulate Matt	☐ % Carbe ☐ Mineral ☐ Mineral ☐ Anal [atter ☐ % Moist ☐ WPDE ☐ Oil & Gre	ia on ysis ture	Se Co Ac Die IF I Die User Fla Me	Moist lor idity serve solve lori lori lori lori lori lori lori lori	Qual. pre Suengi d Gass nt	h ••

nt: 505P	10		COVARIA ORDER 586275/586201/	
		DG/AR/CO	7 16.30	
eived By: MLS		Date Recei	red: 7 15 22 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier	Other
eived By: 1 1 2A	1	ÿ.	FedEx Express FedEx Ordina	
Carrier and Tracking Number	1			
			D. Haion Safety Group for	further investigation.
l i	م ٦٥	sit No. Co	ounts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for	
ispected Hazard Information	2 2	1	UN#: NO	
	1	Hazard Cl	lass Shipped:  15 UN2910, Is the Radioactive Shipment Survey Compliant? YesNo	
Shipped as a DOT Hazardous?			ation or radioactive stickers on containers equal client designation.	
3) Did the client designate the samples are to be		COC not	ation or radioactive stickers on containing the County (CPM)	mR/Hr
3) Did the client designate the received as radioactive?	+	Maximu	m Net Counts Observed* (Observed Counts - Area Background Counts): CPM	
C) Did the RSO classify the samples as		/ 1	Chasmica as.	
radioactive?	$\Box$	/ COC no	nation or hazard labels on containers equal effect designation.	
D) Did the client designate samples are hazardous?		/ If Dor	Gie wes select Hazards below. DCP & Asbestos Beryllium Other.	
		100	E is yes, select ringulate Conference Soil P.CRA Astestos Schmidther P.CR's Flammable Foreign Soil P.CRA Astestos Schmidther P.CRA (Conference of the Conference of the Confer	s)
S) Did the RSG identify possible hazards?	1 5	<u> </u>	Comments/Qualifiers (Required for Non-Conforming Rem	
Sound: Receipt Criteria	Yes	¥Z °Z	ircle Applicable: Seals broken Damaged container Leaking	
Shipping containers received intact and	1/	E-Frank	lirele Applicable: Chent contacted and provided COC COC creates upon receipt	
1 a leanlad?	+	2797 4	Tirele Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable: Client contacted and providence Applicable and Applicabl	TEMP: 26
Chain of custody documents included with shipment?	1		Preservation Method: Wet lee lee Packs Dry ice (Sone) Other.	TEMP: 632
		I A I	tell temperatures are recorded	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		WAX-	Temperature Device Serial #: T. Applicable):	
Daily check performed and passed on	R		Temperature Device Serial #: 1	
temperature gun?	一		Circle Applicable: Seals broken Daning	
5 Sample containers intact and sealed?	1		Sample ID's and Containers Affected:	
Samples requiring chemical preservati	on	71		VOA Freezer)
6 at proper pH?		- F229	If Preservation added, Loil:  If Yes, are Encores or Soil Kits present for solids? Yes No NA (If yes, take to Do liquid VOA vials contain acid preservation? Yes No NA (If unknown, se Do liquid VOA vials contain acid preservation? Yes No NA	lect No)
			Do liquid VCA vials fire of headspace? Yes No NA	
Do any samples require Volatile	1		Sample IDs and containers affected:	
7 Analysis?			1D's and tests affected:	
	107	/間		
8 Samples received within holding tim	A. i	<b>一圈</b>	ID's and containers affected:	Olor (describe)
Sample ID's on COC match ID's on			D's and containers affected:  Circle Applicable: No dates on containers  No times on containers  COC missing inf	O Other (theserver)
1 7 ls		-	Circle Applicable: No dates on comment	
Date & time on COC match date &	, time		Circle Applicable: No container count on COC Other (describe)	
110 lan hottles?		1/10	Circle Approach	
Number of containers received mannumber indicated on COC?				
	els?		Circle Applicable: Not relinquished Other (describe)	
GEL provided by use of gened in	<u> </u>	7 歷	Citate Apparent	
COC form is properly significant relinquished/received sections?	dod).			
relinquished/received sections:  Comments (Use Continuation Form if nee	ucu).			
1			1//	
			Date 118 Page of _	GL-CHL-SR-001 F

Page 29 of 30 SDG: 589538

List of current GEL Certifications as of 01 September 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Page 30 of 30 SDG: 589538



# **Environment Testing America**

# ANALYTICAL REPORT

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-221296-1

Client Project/Site: 125915/JM02.09.G01.1/36500

For:

South Carolina Public Service Authority Santee Cooper PO BOX 2946101 Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by: 9/30/2022 7:36:40 PM

Jerry Janier

Jerry Lanier, Project Manager I (912)250-0281

Jerry.Lanier@et.eurofinsus.com

·····LINKS ······

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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# **Table of Contents**

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Definitions	6
Detection Summary	7
Client Sample Results	18
QC Sample Results	51
QC Association	57
Chronicle	62
Chain of Custody	69
Receipt Checklists	74
Certification Summary	75

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Job ID: 680-221296-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-221296-1

#### Receipt

The samples were received on 9/16/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.0°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

680-221296-30

680-221296-31

680-221296-32

680-221296-33

AF38197

AF38198

AF38199

AF38200

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-221296-1	AF38168	Water	07/06/22 14:06	09/16/22 10:30
680-221296-2	AF38169	Water	07/06/22 14:11	09/16/22 10:30
680-221296-3	AF38170	Water	07/18/22 13:12	09/16/22 10:30
680-221296-4	AF38171	Water	07/20/22 14:12	09/16/22 10:30
680-221296-5	AF38172	Water	07/20/22 14:17	09/16/22 10:30
680-221296-6	AF38173	Water	07/20/22 11:00	09/16/22 10:30
680-221296-7	AF38174	Water	07/20/22 12:20	09/16/22 10:30
680-221296-8	AF38175	Water	07/20/22 13:17	09/16/22 10:30
680-221296-9	AF38176	Water	07/18/22 14:30	09/16/22 10:30
680-221296-10	AF38177	Water	07/14/22 12:48	09/16/22 10:30
680-221296-11	AF38178	Water	07/12/22 12:35	09/16/22 10:30
680-221296-12	AF38179	Water	07/12/22 12:40	09/16/22 10:30
680-221296-13	AF38180	Water	07/07/22 14:43	09/16/22 10:30
680-221296-14	AF38181	Water	07/13/22 11:08	09/16/22 10:30
680-221296-15	AF38182	Water	07/28/22 11:00	09/16/22 10:30
680-221296-16	AF38183	Water	07/14/22 10:45	09/16/22 10:30
680-221296-17	AF38184	Water	07/07/22 13:44	09/16/22 10:30
680-221296-18	AF38185	Water	07/13/22 12:25	09/16/22 10:30
680-221296-19	AF38186	Water	07/13/22 15:31	09/16/22 10:30
680-221296-20	AF38187	Water	07/11/22 10:30	09/16/22 10:30
680-221296-21	AF38188	Water	07/11/22 11:41	09/16/22 10:30
680-221296-22	AF38189	Water	07/11/22 11:46	09/16/22 10:30
680-221296-23	AF38190	Water	07/06/22 10:23	09/16/22 10:30
680-221296-24	AF38191	Water	07/12/22 10:44	09/16/22 10:30
680-221296-25	AF38192	Water	07/12/22 14:55	09/16/22 10:30
680-221296-26	AF38193	Water	07/11/22 13:38	09/16/22 10:30
680-221296-27	AF38194	Water	07/11/22 14:41	09/16/22 10:30
680-221296-28	AF38195	Water	07/11/22 15:35	09/16/22 10:30
680-221296-29	AF38196	Water	07/11/22 15:40	09/16/22 10:30

Water

Water

Water

Water

07/12/22 13:58 09/16/22 10:30

07/07/22 12:37 09/16/22 10:30

07/07/22 11:37 09/16/22 10:30

07/14/22 11:50 09/16/22 10:30

Job ID: 680-221296-1

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# **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

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/JM02.09.G01.1/36500

Job ID: 680-221296-1

#### **Qualifiers**

M	eta	S
IV.	cla	13

 Qualifier
 Qualifier Description

 ^6+
 Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits.
U Indicates the analyte was analyzed for but not detected.

#### Glossary

Appreviation	These commonly used appreviations 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

There are markly used abbreviations may be made by a consent in this are not

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 Job ID: 680-221296-1

Project/Site: 125915/JM02.09.G01.1/36500

## Client Sample ID: AF38168

## Lab Sample ID: 680-221296-1

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	126000	500		ug/L	1	-	6010D	Total
								Recoverable
Iron	2690	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	18100	500		ug/L	1		6010D	Total
								Recoverable
Potassium	5890	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	30500	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	2830	100		ug/L	1		6020B	Total
								Recoverable
Barium	22.2	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	1.14	0.500		ug/L	1		6020B	Total
								Recoverable
Zinc	22.7	20.0		ug/L	1		6020B	Total
								Recoverable

# Client Sample ID: AF38169

## Lab Sample ID: 680-221296-2

Analyte	Result	Qualifier RL	MDL L	Jnit	Dil Fac	D	Method	Prep Type
Calcium	114000	500	u	ıg/L	1	<del>71-2</del> 5	6010D	Total
								Recoverable
Iron	2430	100	u	ıg/L	1		6010D	Total
								Recoverable
Magnesium	16400	500	u	ıg/L	1		6010D	Total
								Recoverable
Potassium	5210	1000	u	ıg/L	1		6010D	Total
								Recoverable
Sodium	27600	2000	u	ıg/L	1		6010D	Total
								Recoverable
Aluminum	2860	100	u	ıg/L	1		6020B	Total
								Recoverable
Barium	22.5	5.00	u	ıg/L	1		6020B	Total
								Recoverable
Cobalt	1.23	0.500	u	ıg/L	1		6020B	Total
								Recoverable
Zinc	26.7	20.0	u	ıg/L	1		6020B	Total
								Recoverable

## **Client Sample ID: AF38170**

## Lab Sample ID: 680-221296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	355000		500		ug/L			6010D	Total
									Recoverable
Iron	50400		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	24800		500		ug/L	1		6010D	Total
									Recoverable
Potassium	2270		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	108000		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	5.60		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	287		5.00		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38170 (Continued) Lab Sample ID: 680-221296-3 Result Qualifier RL **MDL** Unit Dil Fac D Method Analyte Prep Type 0.525 0.500 ug/L 6020B Cobalt Total Recoverable Client Sample ID: AF38171 Lab Sample ID: 680-221296-4 **Analyte** Result Qualifier RL **MDL** Unit Dil Fac D Method Prep Type Calcium 1170000 5000 ug/L 10 6010D Total Recoverable Magnesium 29800 500 ug/L 6010D Total Recoverable 15700 1000 6010D Potassium ug/L 1 Total Recoverable Sodium 128000 2000 ug/L 1 6010D Total Recoverable Arsenic 17.4 3.00 ug/L 1 6020B Total Recoverable Barium 41.6 5.00 6020B ug/L Total Recoverable Client Sample ID: AF38172 Lab Sample ID: 680-221296-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1230000	) <del>.</del> -	5000		ug/L	10	W-8	6010D	Total
									Recoverable
Magnesium	27700		500		ug/L	1		6010D	Total
									Recoverable
Potassium	14400		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	118000		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	13.6		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	47.9		5.00		ug/L	1		6020B	Total
L									Recoverable

Client Sample ID: AF38173 Lab Sample ID: 680-221296-6

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	759000	5000	A11 345	ug/L	10	-	6010D	Total
								Recoverable
Magnesium	37100	500		ug/L	1		6010D	Total
								Recoverable
Potassium	11500	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	104000	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	7.21	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	90.3	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF38174 Lab Sample ID: 680-221296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	681000		500		ug/L	1	-	6010D	Total
Iron	13200		100		ug/L	1		6010D	Recoverable Total Recoverable

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38174 (Continued)

Job ID: 680-221296-1

Lab Sample ID: 680-221296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	29000		500	*	ug/L	1		6010D	Total
									Recoverable
Potassium	6470		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	96600		2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	6.29		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	159		5.00	225005000	ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF38175 Lab Sample ID: 680-221296-8

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	152000	500	91	ug/L			6010D	Total
								Recoverable
Iron	6360	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	7860	500		ug/L	1		6010D	Total
								Recoverable
Potassium	4770	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	68800	2000		ug/L	1		6010D	Total
								Recoverable
Barium	77.6	5.00		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF38176 Lab Sample ID: 680-221296-9

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47100	500	<u> </u>	ug/L	1	_	6010D	Total
								Recoverable
Iron	11700	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	7760	500		ug/L	1		6010D	Total
								Recoverable
Potassium	2530	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	18100	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	3.74	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	147	5.00		ug/L	1		6020B	Total
								Recoverable
Beryllium	0.830	0.500		ug/L	1		6020B	Total
								Recoverable
Cobalt	1.13	0.500		ug/L	1		6020B	Total
_								Recoverable

Client Sample ID: AF38177 Lab Sample ID: 680-221296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	182000		500	-	ug/L		-	6010D	Total
									Recoverable
Iron	6610		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	17700		500		ug/L	1		6010D	Total
									Recoverable

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Job ID: 680-221296-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38177 (Continued)

Lab Sample ID: 680-221296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	10400	·	1000		ug/L			6010D	Total
									Recoverable
Sodium	111000		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	156		100		ug/L	1		6020B	Total
									Recoverable
Barium	70.2		5.00		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF38178

Lab Sample ID: 680-221296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	226000		500	-	ug/L		_	6010D	Total
									Recoverable
Iron	1550		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	33600		500		ug/L	1		6010D	Total
									Recoverable
Molybdenum	28.0		10.0		ug/L	1		6010D	Total
									Recoverable
Potassium	12700	1	000		ug/L	1		6010D	Total
									Recoverable
Sodium	60900	2	2000		ug/L	1		6010D	Total
									Recoverable
Arsenic	86.6		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	41.0		5.00		ug/L	1		6020B	Total
=									Recoverable

**Client Sample ID: AF38179** 

Lab Sample ID: 680-221296-12

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	234000	500		ug/L	1		6010D	Total
								Recoverable
Iron	1540	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	35200	500		ug/L	1		6010D	Total
								Recoverable
Molybdenum	29.4	10.0		ug/L	1		6010D	Total
								Recoverable
Potassium	13400	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	64500	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	78.1	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	42.3	5.00		ug/L	1		6020B	Total
								Recoverable

**Client Sample ID: AF38180** 

Lab Sample ID: 680-221296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	68700		500		ug/L		_	6010D	Total
									Recoverable
Iron	1110		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	5140		500		ug/L	1		6010D	Total
									Recoverable

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Job ID: 680-221296-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

## Client Sample ID: AF38180 (Continued)

## Lab Sample ID: 680-221296-13

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	179	10.0	<u> </u>	ug/L	1		6010D	Total
								Recoverable
Potassium	6050	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	25400	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	241	100		ug/L	1		6020B	Total
								Recoverable
Arsenic	189	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	76.0	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	2.07	0.500		ug/L	1		6020B	Total
								Recoverable

## Client Sample ID: AF38181

## Lab Sample ID: 680-221296-14

Analyte	Result	Qualifier RL	MDL Unit	Dil Fac	D Method	Prep Type
Calcium	316000	500	ug/L		6010D	Total
						Recoverable
Iron	2610	100	ug/L	1	6010D	Total
						Recoverable
Magnesium	40800	500	ug/L	1	6010D	Total
						Recoverable
Molybdenum	45.6	10.0	ug/L	1	6010D	Total
						Recoverable
Potassium	16100	1000	ug/L	1	6010D	Total
						Recoverable
Sodium	40000	2000	ug/L	1	6010D	Total
						Recoverable
Aluminum	2050	100	ug/L	1	6020B	Total
						Recoverable
Arsenic	112	3.00	ug/L	1	6020B	Total
						Recoverable
Barium	43.7	5.00	ug/L	1	6020B	Total
						Recoverable
Cobalt	6.02	0.500	ug/L	1	6020B	Total
			_			Recoverable
Nickel	6.35	5.00	ug/L	1	6020B	Total
						Recoverable

### Client Sample ID: AF38182

### Lab Sample ID: 680-221296-15

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	32400	500		ug/L			6010D	Total
								Recoverable
Iron	72000	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	10200	500		ug/L	1		6010D	Total
								Recoverable
Molybdenum	71.8	10.0		ug/L	1		6010D	Total
								Recoverable
Potassium	4940	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	27500	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	74400	100		ug/L	1		6020B	Total
								Recoverable

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Total Recoverable

Lab Sample ID: 680-221296-15

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Client Sample ID: AF38182 (Continued
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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	141		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	122		5.00		ug/L	1		6020B	Total
									Recoverable
Beryllium	0.690		0.500		ug/L	1		6020B	Total
									Recoverable

Barium	122	5.00	ug/L	1	6020B	Iotai
04/04/4/04/10/2007/04/4/14/20/2007						Recoverable
Beryllium	0.690	0.500	ug/L	1	6020B	Total
						Recoverable
Chromium	93.2 ^6+	5.00	ug/L	1	6020B	Total
						Recoverable
Cobalt	7.46	0.500	ug/L	1	6020B	Total
						Recoverable
Copper	16.4	5.00	ug/L	1	6020B	Total
						Recoverable
Lead	62.7	2.50	ug/L	1	6020B	Total
						Recoverable
Nickel	26.2	5.00	ug/L	1	6020B	Total
						Recoverable
Selenium	3.98	2.50	ug/L	1	6020B	Total
						Recoverable

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# Client Sample ID: AF38183

Zinc

## Lab Sample ID: 680-221296-16

6020B

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74200		5000		ug/L	1	-	6010D	Total
									Recoverable
Iron	1090		1000		ug/L	1		6010D	Total
									Recoverable
Magnesium	11600		5000		ug/L	1		6010D	Total
									Recoverable
Aluminum	1660		1000		ug/L	1		6020B	Total
									Recoverable

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ug/L

## Client Sample ID: AF38184

## Lab Sample ID: 680-221296-17

Analyte	Result	Qualifier RL	MDL U	Init	Dil Fac	D	Method	Prep Type
Calcium	435000	500	u	g/L	1	W-35	6010D	Total
								Recoverable
Iron	38900	100	u	g/L	1		6010D	Total
								Recoverable
Magnesium	66000	500	u	g/L	1		6010D	Total
								Recoverable
Potassium	24300	1000	u	g/L	1		6010D	Total
								Recoverable
Sodium	128000	2000	u	g/L	1		6010D	Total
								Recoverable
Arsenic	65.9	3.00	u	g/L	1		6020B	Total
								Recoverable
Barium	280	5.00	u	g/L	1		6020B	Total
								Recoverable
Beryllium	0.635	0.500	u	g/L	1		6020B	Total
_								Recoverable

## Client Sample ID: AF38185

## Lab Sample ID: 680-221296-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	218000		500		ug/L	1	_	6010D	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

Job ID: 680-221296-1

Lab Sample ID: 680-221296-18

Lab Sample ID: 680-221296-19

Lab Sample ID: 680-221296-20

Lab Sample ID: 680-221296-21

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7720	_	100		ug/L	1	-	6010D	Total
									Recoverable
Magnesium	10400		500		ug/L	1		6010D	Total
									Recoverable
Potassium	1750		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	40300		2000		ug/L	1		6010D	Total
									Recoverable
Barium	107		5.00		ug/L	1		6020B	Total
									Recoverable

# Client Sample ID: AF38186

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	99000		500		ug/L	1	_	6010D	Total
									Recoverable
Iron	187		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	7950		500		ug/L	1		6010D	Total
									Recoverable
Potassium	4510		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	26200		2000		ug/L	1		6010D	Total
									Recoverable

## Client Sample ID: AF38187

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	58600		500	-	ug/L	1	_	6010D	Total
									Recoverable
Iron	2920		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	2010		500		ug/L	1		6010D	Total
									Recoverable
Potassium	1910		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	9720		2000		ug/L	1		6010D	Total
									Recoverable
Barium	9.68		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF38188

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19400		500		ug/L		_	6010D	Total
									Recoverable
Iron	542		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	1700		500		ug/L	1		6010D	Total
									Recoverable
Sodium	3680		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	173		100		ug/L	1		6020B	Total
									Recoverable
Barium	45.8		5.00		ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

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Client: South Carolina Public Service Authority

Job ID: 680-221296-1

Project/Site: 125915/JM02.09.G01.1/36500

Client Sample	ID: A	AF381	89
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## Lab Sample ID: 680-221296-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20000	·	500	*	ug/L			6010D	Total
									Recoverable
Iron	573		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	1780		500		ug/L	1		6010D	Total
									Recoverable
Sodium	3870		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	155		100		ug/L	1		6020B	Total
									Recoverable
Barium	39.4		5.00		ug/L	1		6020B	Total
-									Recoverable

## Client Sample ID: AF38190

## Lab Sample ID: 680-221296-23

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2520	500		ug/L		_	6010D	Total
								Recoverable
Iron	352	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	897	500		ug/L	1		6010D	Total
								Recoverable
Sodium	2670	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	963	100		ug/L	1		6020B	Total
								Recoverable
Barium	38.3	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	3.15	0.500		ug/L	1		6020B	Total
								Recoverable

## Client Sample ID: AF38191

## Lab Sample ID: 680-221296-24

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	55900	500	<del></del>	ug/L	1	25—34 25—34	6010D	Total
								Recoverable
Iron	3280	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	2240	500		ug/L	1		6010D	Total
								Recoverable
Potassium	3170	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	11500	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	985	100		ug/L	1		6020B	Total
								Recoverable
Barium	113	5.00		ug/L	1		6020B	Total
								Recoverable

## **Client Sample ID: AF38192**

## Lab Sample ID: 680-221296-25

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	337000	500		ug/L		_	6010D	Total
								Recoverable
Iron	10300	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	9370	500		ug/L	1		6010D	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Lab Sample ID: 680-221296-25

Client Sample ID: AF38192 (Continued)	Client S	ample ID	: AF38192	(Continued)
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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4370		1000		ug/L	1	_	6010D	Total
									Recoverable
Sodium	9600		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	149		100		ug/L	1		6020B	Total
									Recoverable
Barium	32.7		5.00		ug/L	1		6020B	Total
									Recoverable

## Client Sample ID: AF38193

Lab Sample ID: 680-2	221296-26
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Analyte	Result	Qualifier	RL N	NDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	23800	5	00		ug/L			6010D	Total
									Recoverable
Iron	2860	1	00		ug/L	1		6010D	Total
									Recoverable
Magnesium	655	5	00		ug/L	1		6010D	Total
									Recoverable
Aluminum	2250	1	00		ug/L	1		6020B	Total
									Recoverable
Barium	51.6	5.	00		ug/L	1		6020B	Total
									Recoverable
Cobalt	1.91	0.5	00		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF38194

## Lab Sample ID: 680-221296-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	17600	F1	500		ug/L	1		6010D	Total
									Recoverable
Calcium	14600		500		ug/L	1		6010D	Total
									Recoverable
Iron	477		100		ug/L	1		6010D	Total
									Recoverable
Iron	399		100		ug/L	1		6010D	Total
									Recoverable
Sodium	2380		2000		ug/L	1		6010D	Total
									Recoverable
Sodium	2010		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	3180		100		ug/L	1		6020B	Total
									Recoverable
Arsenic	6.95		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	32.4		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.885		0.500		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF38195

### Lab Sample ID: 680-221296-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	71200	·	500	-	ug/L		_	6010D	Total
									Recoverable
Iron	2520		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	1280		500		ug/L	1		6010D	Total
									Recoverable

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38195 (Continued)

Job ID: 680-221296-1

Lab Sample ID: 680-221296-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1260		1000	-	ug/L	1	_	6010D	Total
									Recoverable
Sodium	2700		2000		ug/L	1		6010D	Total
									Recoverable
Aluminum	131		100		ug/L	1		6020B	Total
									Recoverable
Barium	35.0		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF38196 Lab Sample ID: 680-221296-29

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60400	500		ug/L		-	6010D	Total
								Recoverable
Iron	2120	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	1100	500		ug/L	1		6010D	Total
								Recoverable
Potassium	1060	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	2310	2000		ug/L	1		6010D	Total
								Recoverable
Aluminum	165	100		ug/L	1		6020B	Total
								Recoverable
Barium	42.8	5.00		ug/L	1		6020B	Total
_								Recoverable

#### Client Sample ID: AF38197 Lab Sample ID: 680-221296-30

Analyte	Result	Qualifier RL	MDL Ur	nit	Dil Fac	D	Method	Prep Type
Calcium	272000	500	ug	J/L	1	_	6010D	Total
								Recoverable
Iron	2870	100	ug	J/L	1		6010D	Total
								Recoverable
Magnesium	25900	500	ug	J/L	1		6010D	Total
								Recoverable
Potassium	6390	1000	ug	J/L	1		6010D	Total
								Recoverable
Sodium	15600	2000	ug	J/L	1		6010D	Total
								Recoverable
Barium	39.5	5.00	ug	ı/L	1		6020B	Total
								Recoverable
Zinc	22.4	20.0	ug	ı/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF38198 Lab Sample ID: 680-221296-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	95400	×	500	-	ug/L	1	W5	6010D	Total
									Recoverable
Iron	1560		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	7170		500		ug/L	1		6010D	Total
									Recoverable
Potassium	4910		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	21600		2000		ug/L	1		6010D	Total
									Recoverable

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Job ID: 680-221296-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

### Client Sample ID: AF38198 (Continued)

### Lab Sample ID: 680-221296-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	428	·	100	*	ug/L		_	6020B	Total
									Recoverable
Arsenic	106		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	72.5		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	1.45		0.500		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF38199

# Lab Sample ID: 680-221296-32

Analyte	Result	Qualifier RL	MDL U	Jnit	Dil Fac	D	Method	Prep Type
Calcium	94200	500		ıg/L		-	6010D	Total
								Recoverable
Iron	2670	100	U	ıg/L	1		6010D	Total
								Recoverable
Magnesium	3430	500	U	ıg/L	1		6010D	Total
								Recoverable
Potassium	3500	1000	U	ıg/L	1		6010D	Total
								Recoverable
Sodium	9770	2000	u	ıg/L	1		6010D	Total
								Recoverable
Arsenic	242	3.00	U	ıg/L	1		6020B	Total
								Recoverable
Barium	60.6	5.00	U	ıg/L	1		6020B	Total
								Recoverable
Cobalt	0.620	0.500	U	ıg/L	1		6020B	Total
								Recoverable

## Client Sample ID: AF38200

## Lab Sample ID: 680-221296-33

Analyte	Result	Qualifier F	L MD	L Unit	Dil Fac	D	Method	Prep Type
Calcium	131000	5	10	ug/L			6010D	Total
								Recoverable
Iron	448	11	0	ug/L	1		6010D	Total
								Recoverable
Magnesium	7380	5	10	ug/L	1		6010D	Total
								Recoverable
Potassium	4190	10	0	ug/L	1		6010D	Total
								Recoverable
Sodium	5810	20	0	ug/L	1		6010D	Total
								Recoverable
Arsenic	3.70	3.0	0	ug/L	1		6020B	Total
								Recoverable
Barium	36.6	5.0	10	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

Client Sample ID: AF38168

Lab Sample ID: 680-221296-1

Job ID: 680-221296-1

Date Collected: 07/06/22 14:06 Matrix: Water Date Received: 09/16/22 10:30

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	126000	500		ug/L		09/20/22 05:39	09/20/22 15:29	1
Iron	2690	100		ug/L		09/20/22 05:39	09/20/22 15:29	1
Magnesium	18100	500		ug/L		09/20/22 05:39	09/20/22 15:29	1
Molybdenum	10.0 U	10.0		ug/L		09/20/22 05:39	09/20/22 15:29	1
Potassium	5890	1000		ug/L		09/20/22 05:39	09/20/22 15:29	1
Sodium	30500	2000		ug/L		09/20/22 05:39	09/20/22 15:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2830		100	-	ug/L		09/20/22 05:39	09/20/22 23:35	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Barium	22.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Cobalt	1.14		0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:35	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:35	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Zinc	22.7		20.0		ug/L		09/20/22 05:39	09/20/22 23:35	1

9/30/2022

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-2

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38169
Date Collected: 07/06/22 14:11
Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	114000		500		ug/L		09/20/22 05:39	09/20/22 15:11	1
lron	2430		100		ug/L		09/20/22 05:39	09/20/22 15:11	1
Magnesium	16400		500		ug/L		09/20/22 05:39	09/20/22 15:11	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:11	1
Potassium	5210		1000		ug/L		09/20/22 05:39	09/20/22 15:11	1
Sodium	27600		2000		ug/L		09/20/22 05:39	09/20/22 15:11	1

Souldill	2/800		2000		ug/L		03/20/22 03.33	03/20/22 13.11	-
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	2						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2860		100		ug/L		09/20/22 05:39	09/20/22 23:07	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Barium	22.5		5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Cobalt	1.23		0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:07	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:07	1
Thallium	1.00	Ú	1.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Zinc	26.7		20.0		ug/L		09/20/22 05:39	09/20/22 23:07	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-3

Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38170 Date Collected: 07/18/22 13:12

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	355000		500		ug/L		09/20/22 05:22	09/20/22 16:24	1
Iron	50400		100		ug/L		09/20/22 05:22	09/20/22 16:24	1
Magnesium	24800		500		ug/L		09/20/22 05:22	09/20/22 16:24	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:24	1
Potassium	2270		1000		ug/L		09/20/22 05:22	09/20/22 16:24	1
Sodium	108000		2000		ug/L		09/20/22 05:22	09/20/22 16:24	1

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Method: 6020B - Metals	(ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 20:55	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Arsenic	5.60		3.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Barium	287		5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Cobalt	0.525		0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:55	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:55	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 20:55	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-4

Matrix: Water

Job ID: 680-221296-1

Date Collected: 07/20/22 14:12 Date Received: 09/16/22 10:30

Client Sample ID: AF38171

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1170000		5000		ug/L		09/20/22 05:39	09/21/22 15:27	10
Iron	100	U	100		ug/L		09/20/22 05:39	09/20/22 15:41	1
Magnesium	29800		500		ug/L		09/20/22 05:39	09/20/22 15:41	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:41	1
Potassium	15700		1000		ug/L		09/20/22 05:39	09/20/22 15:41	1
Sodium	128000		2000		ug/L		09/20/22 05:39	09/20/22 15:41	1

Soulum	128000		2000		ug/L		00/20/22 00.00	03/20/22 13.41	- 1
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:54	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Arsenic	17.4		3.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Barium	41.6		5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:54	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:54	1
Thallium	1.00	Ú	1.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:54	1
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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF38172** 

Lab Sample ID: 680-221296-5

Job ID: 680-221296-1

Matrix: Water

Date Collected: 07/20/22 14:17 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1230000		5000		ug/L		09/20/22 05:22	09/21/22 15:33	10
Iron	100	U	100		ug/L		09/20/22 05:22	09/20/22 16:54	1
Magnesium	27700		500		ug/L		09/20/22 05:22	09/20/22 16:54	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:54	1
Potassium	14400		1000		ug/L		09/20/22 05:22	09/20/22 16:54	1
Sodium	118000		2000		ug/L		09/20/22 05:22	09/20/22 16:54	1

Oddidiii	110000		2000		ug/L		00/20/22 00.22	00/20/22 10.01	
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable	2						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:42	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Arsenic	13.6		3.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Barium	47.9		5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:42	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:42	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:42	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-6

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38173

Date Collected: 07/20/22 11:00 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	759000		5000		ug/L		09/20/22 05:22	09/21/22 15:30	10
Iron	100	U	100		ug/L		09/20/22 05:22	09/20/22 16:39	1
Magnesium	37100		500		ug/L		09/20/22 05:22	09/20/22 16:39	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:39	1
Potassium	11500		1000		ug/L		09/20/22 05:22	09/20/22 16:39	1
Sodium	104000		2000		ug/L		09/20/22 05:22	09/20/22 16:39	1

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s (ICP/MS) - Total F	Recoverable							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
100	U	100		ug/L		09/20/22 05:22	09/20/22 21:26	1
5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
7.21		3.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
90.3		5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:26	1
	100 5.00 7.21 90.3 0.500 0.500 0.500 5.00 0.500 5.00 2.50 5.00 2.50	Result Qualifier  100  5.00  7.21	Result   Qualifier   RL	Result   Qualifier   RL   MDL     100     10	Result   Qualifier   RL   MDL   Unit   Ug/L	Result   Qualifier   RL   MDL   Unit   D	Result   Qualifier   RL   MDL   Unit   D   Prepared   09/20/22 05:22   0.500   U   0.500   Ug/L   Ug/L   0.500   Ug/L   0.500   Ug/L   Ug/L   0.500   Ug/L   Ug/L   0.500   Ug/L   Result   Qualifier   RL   MDL   Unit   D   Prepared   O9/20/22 05:22   O9/20/22 21:26	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-7

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38174 Date Collected: 07/20/22 12:20

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	681000		500		ug/L		09/20/22 05:22	09/20/22 16:59	1
Iron	13200		100		ug/L		09/20/22 05:22	09/20/22 16:59	1
Magnesium	29000		500		ug/L		09/20/22 05:22	09/20/22 16:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:59	1
Potassium	6470		1000		ug/L		09/20/22 05:22	09/20/22 16:59	1
Sodium	96600		2000		ug/L		09/20/22 05:22	09/20/22 16:59	1

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Method: 6020B - Meta						_	1 <b>-</b> 000000000000000000000000000000000000	14 (2000), 114 (2000)	V
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:50	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Arsenic	6.29		3.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Barium	159		5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:50	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:50	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:50	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-8

Matrix: Water

Job ID: 680-221296-1

Date Collected: 07/20/22 13:17 Date Received: 09/16/22 10:30

**Client Sample ID: AF38175** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	152000		500		ug/L		09/20/22 05:39	09/20/22 15:39	1
Iron	6360		100		ug/L		09/20/22 05:39	09/20/22 15:39	1
Magnesium	7860		500		ug/L		09/20/22 05:39	09/20/22 15:39	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:39	1
Potassium	4770		1000		ug/L		09/20/22 05:39	09/20/22 15:39	1
Sodium	68800		2000		ug/L		09/20/22 05:39	09/20/22 15:39	1

Codidili	00000		2000		49/2		00/20/22 00.00	00/20/22 10:00	
Method: 6020B - Meta	ils (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:50	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Barium	77.6		5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:50	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:50	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:50	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-9

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38176 Date Collected: 07/18/22 14:30 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47100	·	500		ug/L		09/20/22 05:39	09/20/22 15:57	1
Iron	11700		100		ug/L		09/20/22 05:39	09/20/22 15:57	1
Magnesium	7760		500		ug/L		09/20/22 05:39	09/20/22 15:57	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:57	1
Potassium	2530		1000		ug/L		09/20/22 05:39	09/20/22 15:57	1
Sodium	18100		2000		ug/L		09/20/22 05:39	09/20/22 15:57	1

Method: 6020B - Metals	c (ICD/MS) - Total E	ecoverable							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/20/22 05:39	09/21/22 00:09	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Arsenic	3.74		3.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Barium	147		5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Beryllium	0.830		0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Cobalt	1.13		0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:09	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:09	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:09	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF38177** Date Collected: 07/14/22 12:48

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-10

Job ID: 680-221296-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	182000		500		ug/L		09/20/22 05:39	09/20/22 15:31	1
Iron	6610		100		ug/L		09/20/22 05:39	09/20/22 15:31	1
Magnesium	17700		500		ug/L		09/20/22 05:39	09/20/22 15:31	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:31	1
Potassium	10400		1000		ug/L		09/20/22 05:39	09/20/22 15:31	1
Sodium	111000		2000		ug/L		09/20/22 05:39	09/20/22 15:31	1

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Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	156		100		ug/L		09/20/22 05:39	09/20/22 23:39	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Barium	70.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
Thallium	1.00	Ú	1.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:39	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-11

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38178 Date Collected: 07/12/22 12:35 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	226000		500		ug/L		09/20/22 05:39	09/20/22 15:54	1
Iron	1550		100		ug/L		09/20/22 05:39	09/20/22 15:54	1
Magnesium	33600		500		ug/L		09/20/22 05:39	09/20/22 15:54	1
Molybdenum	28.0		10.0		ug/L		09/20/22 05:39	09/20/22 15:54	1
Potassium	12700		1000		ug/L		09/20/22 05:39	09/20/22 15:54	1
Sodium	60900		2000		ug/L		09/20/22 05:39	09/20/22 15:54	1

Sodium	60900		2000		ug/L		09/20/22 05:39	09/20/22 15:54	1
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable	2						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/21/22 00:06	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Arsenic	86.6		3.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Barium	41.0		5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:06	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:06	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:06	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-12

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38179 Date Collected: 07/12/22 12:40 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	234000	500		ug/L		09/20/22 05:39	09/20/22 15:34	1
Iron	1540	100		ug/L		09/20/22 05:39	09/20/22 15:34	1
Magnesium	35200	500		ug/L		09/20/22 05:39	09/20/22 15:34	1
Molybdenum	29.4	10.0		ug/L		09/20/22 05:39	09/20/22 15:34	1
Potassium	13400	1000		ug/L		09/20/22 05:39	09/20/22 15:34	1
Sodium	64500	2000		ug/L		09/20/22 05:39	09/20/22 15:34	1

Sodium	64500		2000		ug/L		03/20/22 03.33	03/20/22 13.34	1
Method: 6020B - Meta	ils (ICP/MS) - Total F	Recoverable	2						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:42	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Arsenic	78.1		3.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Barium	42.3		5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:42	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:42	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:42	1

9/30/2022

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-13

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38180 Date Collected: 07/07/22 14:43

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68700		500		ug/L		09/20/22 05:39	09/20/22 15:26	1
Iron	1110		100		ug/L		09/20/22 05:39	09/20/22 15:26	1
Magnesium	5140		500		ug/L		09/20/22 05:39	09/20/22 15:26	1
Molybdenum	179		10.0		ug/L		09/20/22 05:39	09/20/22 15:26	1
Potassium	6050		1000		ug/L		09/20/22 05:39	09/20/22 15:26	1
Sodium	25400		2000		ug/L		09/20/22 05:39	09/20/22 15:26	1

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Total F	Recoverable							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
241		100		ug/L		09/20/22 05:39	09/20/22 23:23	1
5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
189		3.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
76.0		5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
2.07		0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
1.00	Ú	1.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:23	1
	241 5.00 189 76.0 0.500 0.500 5.00 2.07 5.00 2.50 5.00 2.50 1.00	Result         Qualifier           241         5.00           5.00         U           189         76.0           0.500         U           0.500         U           5.00         U^6+	241         100           5.00 U         5.00           189         3.00           76.0         5.00           0.500 U         0.500           0.500 U         0.500           5.00 U^6+         5.00           2.07         0.500           5.00 U         5.00           2.50 U         2.50           5.00 U         5.00           2.50 U         2.50           1.00 U         1.00	Result         Qualifier         RL         MDL           241         100	Total Recoverable           Result         Qualifier         RL         MDL         Unit           241         100         ug/L           5.00         U g/L         ug/L           189         3.00         ug/L           0.500         U g/L         ug/L           0.500         U g/L         ug/L           0.500         U g/L         ug/L           5.00         U g/L         ug/L           2.07         0.500         ug/L           5.00         U g/L         ug/L           2.50         U g/L         ug/L           5.00         U g/L         ug/L           5.00         U g/L         ug/L           1.00         U dg/L         ug/L	Total Recoverable           Result         Qualifier         RL         MDL         Unit         D           241         100         ug/L         ug/L           5.00         U g/L         ug/L         ug/L           189         3.00         ug/L         ug/L           0.500         U g/L         ug/L         ug/L           0.500         U g/L         ug/L         ug/L           5.00         U 9/L         ug/L         ug/L           5.00         U 9/L         ug/L         ug/L           5.00         U 2.50         ug/L           5.00         U 2.50         ug/L           2.50         U 2.50         ug/L           1.00         U 1.00         ug/L	Total Recoverable           Result         Qualifier         RL         MDL         Unit         D         Prepared           241         100         ug/L         09/20/22 05:39           5.00         U         5.00         ug/L         09/20/22 05:39           189         3.00         ug/L         09/20/22 05:39           0.500         U         0.500         ug/L         09/20/22 05:39           0.500         U         0.500         ug/L         09/20/22 05:39           5.00         U ^6+         5.00         ug/L         09/20/22 05:39           2.07         0.500         ug/L         09/20/22 05:39           5.00         U         5.00         ug/L         09/20/22 05:39           5.00         U         5.00         ug/L         09/20/22 05:39           5.00         U         2.50         ug/L         09/20/22 05:39           5.00         U         5.00         ug/L         09/20/22 05:39           5.00         U         5.00         ug/L         09/20/22 05:39           5.00         U         5.00         ug/L         09/20/22 05:39           5.00         U         5.00 <td< td=""><td>Total Recoverable           Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           241         100         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U         5.00         ug/L         09/20/22 05:39         09/20/22 23:23           189         3.00         ug/L         09/20/22 05:39         09/20/22 23:23           0.500         U         0.500         ug/L         09/20/22 05:39         09/20/22 23:23           0.500         U         0.500         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U ^6+         5.00         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U ^6+         5.00         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U         2.50         ug/L         09/20/22 05:39</td></td<>	Total Recoverable           Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           241         100         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U         5.00         ug/L         09/20/22 05:39         09/20/22 23:23           189         3.00         ug/L         09/20/22 05:39         09/20/22 23:23           0.500         U         0.500         ug/L         09/20/22 05:39         09/20/22 23:23           0.500         U         0.500         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U ^6+         5.00         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U ^6+         5.00         ug/L         09/20/22 05:39         09/20/22 23:23           5.00         U         2.50         ug/L         09/20/22 05:39

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-14

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38181
Date Collected: 07/13/22 11:08
Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	316000	·	500		ug/L		09/20/22 05:39	09/20/22 15:24	1
Iron	2610		100		ug/L		09/20/22 05:39	09/20/22 15:24	1
Magnesium	40800		500		ug/L		09/20/22 05:39	09/20/22 15:24	1
Molybdenum	45.6		10.0		ug/L		09/20/22 05:39	09/20/22 15:24	1
Potassium	16100		1000		ug/L		09/20/22 05:39	09/20/22 15:24	1
Sodium	40000		2000		ug/L		09/20/22 05:39	09/20/22 15:24	1

Souldill	40000		2000		ug/L		03/20/22 03.33	03/20/22 13.24	-
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	2						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2050		100		ug/L		09/20/22 05:39	09/20/22 23:19	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Arsenic	112		3.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Barium	43.7		5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Cobalt	6.02		0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:19	1
Nickel	6.35		5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:19	1
Thallium	1.00	Ú	1.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:19	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38182

Zinc

Lab Sample ID: 680-221296-15

09/20/22 05:22 09/20/22 21:03

Job ID: 680-221296-1

Date Collected: 07/28/22 11:00 Matrix: Water Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	32400		500		ug/L		09/20/22 05:22	09/20/22 16:29	1
Iron	72000		100		ug/L		09/20/22 05:22	09/20/22 16:29	1
Magnesium	10200		500		ug/L		09/20/22 05:22	09/20/22 16:29	1
Molybdenum	71.8		10.0		ug/L		09/20/22 05:22	09/20/22 16:29	1
Potassium	4940		1000		ug/L		09/20/22 05:22	09/20/22 16:29	1
Sodium	27500		2000		ug/L		09/20/22 05:22	09/20/22 16:29	1
Method: 6020B - Metal:	s (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	74400		100	-	ug/L		09/20/22 05:22	09/20/22 21:03	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Arsenic	141		3.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Barium	122		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Beryllium	0.690		0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Chromium	93.2	^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Cobalt	7.46		0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Copper	16.4		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Lead	62.7		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Nickel	26.2		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
	0.00		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Selenium	3.98		2.30		ug/L		03/20/22 03.22	03/20/22 21.03	4

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-16

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Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38183
Date Collected: 07/14/22 10:45
Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	74200		5000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Iron	1090		1000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Magnesium	11600		5000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Molybdenum	100	U	100		ug/L		09/21/22 13:44	09/21/22 18:45	1
Potassium	10000	U	10000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Sodium	20000	U	20000		ug/L		09/21/22 13:44	09/21/22 18:45	1

- Coalain	20000	•	20000		ug/L		00/21/22 10.11	00/21/22 10.10	
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	2						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1660		1000		ug/L		09/20/22 10:24	09/22/22 02:15	1
Antimony	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Arsenic	30.0	U	30.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Barium	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Beryllium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Cadmium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Chromium	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Cobalt	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Copper	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Lead	25.0	U	25.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Nickel	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Selenium	25.0	U	25.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Thallium	10.0	U	10.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Zinc	200	U	200		ug/L		09/20/22 10:24	09/22/22 02:15	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-17

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38184 Date Collected: 07/07/22 13:44

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	435000		500		ug/L		09/20/22 05:22	09/20/22 16:52	1
Iron	38900		100		ug/L		09/20/22 05:22	09/20/22 16:52	1
Magnesium	66000		500		ug/L		09/20/22 05:22	09/20/22 16:52	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:52	1
Potassium	24300		1000		ug/L		09/20/22 05:22	09/20/22 16:52	1
Sodium	128000		2000		ug/L		09/20/22 05:22	09/20/22 16:52	1

Oddani	120000		2000		49/2		00/20/22 00.22	00/20/22 10.02	
Method: 6020B - Meta	ils (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:38	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Arsenic	65.9		3.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Barium	280		5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Beryllium	0.635		0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:38	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:38	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:38	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-18

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38185 Date Collected: 07/13/22 12:25

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	218000		500		ug/L		09/20/22 05:39	09/20/22 15:14	1
Iron	7720		100		ug/L		09/20/22 05:39	09/20/22 15:14	1
Magnesium	10400		500		ug/L		09/20/22 05:39	09/20/22 15:14	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:14	1
Potassium	1750		1000		ug/L		09/20/22 05:39	09/20/22 15:14	1
Sodium	40300		2000		ug/L		09/20/22 05:39	09/20/22 15:14	1

Couldin	40000		2000		49/2		00/20/22 00:00	00/20/22 10.11	
Method: 6020B - Meta	Is (ICP/MS) - Total R	Recoverable	î <mark>.</mark>						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:11	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Barium	107		5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:11	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:11	1
Thallium	1.00	Ū	1.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:11	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-19

Job ID: 680-221296-1

Matrix: Water

**Client Sample ID: AF38186** Date Collected: 07/13/22 15:31

Date Received: 09/16/22 10:30

Analyte	Result G	Qualifier I	L MD	L Unit	D	Prepared	Analyzed	Dil Fac
Calcium	99000	5	00	ug/L		09/20/22 05:22	09/20/22 16:34	1
Iron	187	1	0	ug/L		09/20/22 05:22	09/20/22 16:34	1
Magnesium	7950	5	0	ug/L		09/20/22 05:22	09/20/22 16:34	1
Molybdenum	10.0 L	J 10	.0	ug/L		09/20/22 05:22	09/20/22 16:34	1
Potassium	4510	10	10	ug/L		09/20/22 05:22	09/20/22 16:34	1
Sodium	26200	20	10	ug/L		09/20/22 05:22	09/20/22 16:34	1

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Method: 6020B - Meta									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:11	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:11	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:11	1
Thallium	1.00	Ü	1.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Zinc	20.0	U	20.0		ua/L		09/20/22 05:22	09/20/22 21:11	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-20

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38187 Date Collected: 07/11/22 10:30

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58600		500		ug/L		09/20/22 05:22	09/20/22 16:42	1
Iron	2920		100		ug/L		09/20/22 05:22	09/20/22 16:42	1
Magnesium	2010		500		ug/L		09/20/22 05:22	09/20/22 16:42	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:42	1
Potassium	1910		1000		ug/L		09/20/22 05:22	09/20/22 16:42	1
Sodium	9720		2000		ug/L		09/20/22 05:22	09/20/22 16:42	1
Method: 6020B - Metal	Is (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:30	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/20/22 05:22	09/20/22 21:30	
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Barium	9.68		5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:30	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:30	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:30	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-21

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34 09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

09/20/22 05:22 09/20/22 21:34

Matrix: Water

Job ID: 680-221296-1

<b>Client Sample</b>	ID:	AF	38188
Date Collected: 0	7/11	122	11:41

Date Received: 09/16/22 10:30

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Nickel

Selenium

Thallium

Zinc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19400		500		ug/L		09/20/22 05:22	09/20/22 16:44	1
lron	542		100		ug/L		09/20/22 05:22	09/20/22 16:44	1
Magnesium	1700		500		ug/L		09/20/22 05:22	09/20/22 16:44	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:44	1
Potassium	1000	U	1000		ug/L		09/20/22 05:22	09/20/22 16:44	1
Sodium	3680		2000		ug/L		09/20/22 05:22	09/20/22 16:44	1
Method: 6020B - Meta	ils (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
,,							00/00/00 05 00	00/00/00 04:04	
terroria de la Principa. Mi	173		100		ug/L		09/20/22 05:22	09/20/22 21:34	1
Aluminum Antimony	173 5.00	U	100 5.00		ug/L ug/L		09/20/22 05:22	09/20/22 21:34	1
Aluminum	200,000	577.0			A				1 1 1

0.500

0.500

5.00

0.500

5.00

2.50

5.00

2.50

1.00

20.0

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

0.500 U

0.500 U

0.500 U

5.00 U

2.50 U

5.00 U

2.50 U

1.00 U

20.0 U

5.00 U^6+

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-22

D Gample 1D. 000-22 1230-22

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38189
Date Collected: 07/11/22 11:46
Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20000		500		ug/L		09/20/22 05:43	09/20/22 15:59	1
Iron	573		100		ug/L		09/20/22 05:43	09/20/22 15:59	1
Magnesium	1780		500		ug/L		09/20/22 05:43	09/20/22 15:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:43	09/20/22 15:59	1
Potassium	1000	U	1000		ug/L		09/20/22 05:43	09/20/22 15:59	1
Sodium	3870		2000		ug/L		09/20/22 05:43	09/20/22 15:59	1

A CONTRACTOR OF THE PARTY OF TH		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
155	_	100		ug/L		09/20/22 05:43	09/21/22 00:21	1
5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
3.00	U	3.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
39.4		5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
5.00	U ^6+	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
1.00	Ü	1.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
20.0	U	20.0		ug/L		09/20/22 05:43	09/21/22 00:21	1
	Result 155 5.00 3.00 39.4 0.500 0.500 5.00 2.500 5.00 2.50 5.00 2.50 1.00	Result   Qualifier	155 100 5.00 U 5.00 3.00 U 3.00 39.4 5.00 0.500 U 0.500 0.500 U 0.500 5.00 U^6+ 5.00 0.500 U 0.500 5.00 U 5.00 2.50 U 2.50 5.00 U 5.00 2.50 U 2.50 1.00 U 1.00	Result         Qualifier         RL         MDL           155         100         100           5.00         U         5.00           3.00         U         3.00           39.4         5.00         5.00           0.500         U         0.500           5.00         U 76+         5.00           0.500         U         5.00           5.00         U         5.00           2.50         U         2.50           5.00         U         5.00           2.50         U         2.50           1.00         U         1.00	Result         Qualifier         RL         MDL         Unit           155         100         ug/L           5.00         U         5.00         ug/L           3.00         U         3.00         ug/L           39.4         5.00         ug/L           0.500         U         0.500         ug/L           0.500         U         0.500         ug/L           5.00         U ^6+         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           2.50         U         2.50         ug/L           2.50         U         2.50         ug/L           1.00         U         1.00         ug/L	Result         Qualifier         RL         MDL         Unit         D           155         100         ug/L         ug/L         ug/L           5.00         U         5.00         ug/L         ug/L           39.4         5.00         ug/L         ug/L           0.500         U         0.500         ug/L           5.00         U ^6+         5.00         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           2.50         U         2.50         ug/L           2.50         U         2.50         ug/L           1.00         U         1.00         ug/L	Result         Qualifier         RL         MDL         Unit         D         Prepared           155         100         ug/L         09/20/22 05:43           5.00         U         5.00         ug/L         09/20/22 05:43           3.00         U         3.00         ug/L         09/20/22 05:43           0.500         U         0.500         ug/L         09/20/22 05:43           0.500         U         0.500         ug/L         09/20/22 05:43           5.00         U ^6+         5.00         ug/L         09/20/22 05:43           0.500         U         0.500         ug/L         09/20/22 05:43           5.00         U         5.00         ug/L         09/20/22 05:43           2.50         U         2.50         ug/L         09/20/22 05:43           5.00         U         5.00         ug/L         09/	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           155         100         ug/L         09/20/22 05:43         09/21/22 00:21           5.00         U         5.00         ug/L         09/20/22 05:43         09/21/22 00:21           3.00         U         3.00         ug/L         09/20/22 05:43         09/21/22 00:21           39.4         5.00         ug/L         09/20/22 05:43         09/21/22 00:21           0.500         U         0.500         ug/L         09/20/22 05:43         09/21/22 00:21           0.500         U         0.500         ug/L         09/20/22 05:43         09/21/22 00:21           5.00         U ^6+         5.00         ug/L         09/20/22 05:43         09/21/22 00:21           5.00         U         0.500         ug/L         09/20/22 05:43         09/21/22 00:21           5.00         U         5.00         ug/L         09/20/22 05:43         09/21/22 00:21           2.50         U         2.50         ug/L         09/20/22 05:43         09/21/22 00:21           5.00         U         5.00         ug/L         09/20/22 05:43         09/21/22 00:21           5.

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-23

Job ID: 680-221296-1

Matrix: Water

Client	Samp	le ID:	AF3	8190
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Date Collected: 07/06/22 10:23 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2520		500		ug/L		09/20/22 05:39	09/20/22 15:36	1
Iron	352		100		ug/L		09/20/22 05:39	09/20/22 15:36	1
Magnesium	897		500		ug/L		09/20/22 05:39	09/20/22 15:36	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:36	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 15:36	1
Sodium	2670		2000		ug/L		09/20/22 05:39	09/20/22 15:36	1

Sodium	2670		2000		ug/L		03/20/22 03.33	03/20/22 13.30	
Method: 6020B - Meta	ıls (ICP/MS) - Total F	Recoverable	2						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	963		100		ug/L		09/20/22 05:39	09/20/22 23:46	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Barium	38.3		5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Cobalt	3.15		0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:46	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:46	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:46	1
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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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Lab Sample ID: 680-221296-24

Matrix: Water

Job ID: 680-221296-1

Date Collected: 07/12/22 10:44 Date Received: 09/16/22 10:30

Client Sample ID: AF38191

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	55900		500		ug/L		09/20/22 05:39	09/20/22 15:21	1
Iron	3280		100		ug/L		09/20/22 05:39	09/20/22 15:21	1
Magnesium	2240		500		ug/L		09/20/22 05:39	09/20/22 15:21	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:21	1
Potassium	3170		1000		ug/L		09/20/22 05:39	09/20/22 15:21	1
Sodium	11500		2000		ug/L		09/20/22 05:39	09/20/22 15:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	985	-	100	-	ug/L		09/20/22 05:39	09/20/22 23:15	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Barium	113		5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:15	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:15	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:15	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-25

Matrix: Water

Job ID: 680-221296-1

Date Collected: 07/12/22 14:55 Date Received: 09/16/22 10:30

Client Sample ID: AF38192

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	337000	<u> </u>	500		ug/L		09/20/22 05:39	09/20/22 15:44	1
Iron	10300		100		ug/L		09/20/22 05:39	09/20/22 15:44	1
Magnesium	9370		500		ug/L		09/20/22 05:39	09/20/22 15:44	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:44	1
Potassium	4370		1000		ug/L		09/20/22 05:39	09/20/22 15:44	1
Sodium	9600		2000		ug/L		09/20/22 05:39	09/20/22 15:44	1

Method: 6020B - Metal	5					_	Daw Deerton Conscionation 8	Billionia de la tractica de	Y <b></b>
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	149		100		ug/L		09/20/22 05:39	09/20/22 23:58	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Barium	32.7		5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:58	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:58	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:58	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-26

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38193 Date Collected: 07/11/22 13:38

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	23800	·	500		ug/L		09/20/22 05:22	09/20/22 16:32	1
Iron	2860		100		ug/L		09/20/22 05:22	09/20/22 16:32	1
Magnesium	655		500		ug/L		09/20/22 05:22	09/20/22 16:32	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:32	1
Potassium	1000	U	1000		ug/L		09/20/22 05:22	09/20/22 16:32	1
Sodium	2000	U	2000		ug/L		09/20/22 05:22	09/20/22 16:32	1

	1_0.00	-			-9				
Method: 6020B - Meta	Is (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2250		100	-	ug/L		09/20/22 05:22	09/20/22 21:07	
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Barium	51.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Cobalt	1.91		0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:07	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:07	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:07	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-27

Oampic 1D. 000-22 1200-21

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38194 Date Collected: 07/11/22 14:41

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17600	F1	500		ug/L		09/20/22 05:39	09/20/22 15:04	1
Calcium	14600		500		ug/L		09/28/22 09:50	09/29/22 09:40	1
Iron	477		100		ug/L		09/20/22 05:39	09/20/22 15:04	1
Iron	399		100		ug/L		09/28/22 09:50	09/29/22 09:40	1
Magnesium	500	U	500		ug/L		09/20/22 05:39	09/20/22 15:04	1
Magnesium	500	U	500		ug/L		09/28/22 09:50	09/29/22 09:40	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:04	
Molybdenum	10.0	U	10.0		ug/L		09/28/22 09:50	09/29/22 09:40	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 15:04	1
Potassium	1000	U	1000		ug/L		09/28/22 09:50	09/29/22 09:40	1
Sodium	2380		2000		ug/L		09/20/22 05:39	09/20/22 15:04	1
Sodium	2010		2000		ug/L		09/28/22 09:50	09/29/22 09:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3180	-	100	3	ug/L		09/20/22 05:39	09/20/22 22:56	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Arsenic	6.95		3.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Barium	32.4		5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Cobalt	0.885		0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:56	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:56	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 22:56	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-28

Matrix: Water

Job ID: 680-221296-1

**Client Sample ID: AF38195** Date Collected: 07/11/22 15:35 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	71200		500		ug/L		09/20/22 05:22	09/20/22 17:04	1
Iron	2520		100		ug/L		09/20/22 05:22	09/20/22 17:04	1
Magnesium	1280		500		ug/L		09/20/22 05:22	09/20/22 17:04	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 17:04	1
Potassium	1260		1000		ug/L		09/20/22 05:22	09/20/22 17:04	1
Sodium	2700		2000		ug/L		09/20/22 05:22	09/20/22 17:04	1

Couldin	2100		2000		49/2		00/10/11 00:11	00/20/22 11.01	
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	<b>)</b>						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	131		100		ug/L		09/20/22 05:22	09/20/22 21:58	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Barium	35.0		5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:58	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:58	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:58	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-29

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38196 Date Collected: 07/11/22 15:40

Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	60400		500		ug/L		09/20/22 05:22	09/20/22 16:27	1
Iron	2120		100		ug/L		09/20/22 05:22	09/20/22 16:27	1
Magnesium	1100		500		ug/L		09/20/22 05:22	09/20/22 16:27	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:27	1
Potassium	1060		1000		ug/L		09/20/22 05:22	09/20/22 16:27	1
Sodium	2310		2000		ug/L		09/20/22 05:22	09/20/22 16:27	1

Oddani	2010		2000		49/2		00/20/22 00.22	00/20/22 10:21	
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	l <mark>.</mark>						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	165		100		ug/L		09/20/22 05:22	09/20/22 20:59	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Barium	42.8		5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:59	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:59	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 20:59	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-30

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Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38197

Date Collected: 07/12/22 13:58 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	272000		500		ug/L		09/20/22 05:22	09/20/22 16:57	1
lron	2870		100		ug/L		09/20/22 05:22	09/20/22 16:57	1
Magnesium	25900		500		ug/L		09/20/22 05:22	09/20/22 16:57	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:57	1
Potassium	6390		1000		ug/L		09/20/22 05:22	09/20/22 16:57	1
Sodium	15600		2000		ug/L		09/20/22 05:22	09/20/22 16:57	1
Method: 6020B - Meta	Is (ICP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ua/L		09/20/22 05:22	09/20/22 21:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/20/22 05:22	09/20/22 21:46	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Barium	39.5		5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:46	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:46	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Zinc	22.4		20.0		ug/L		09/20/22 05:22	09/20/22 21:46	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-31

Matrix: Water

Job ID: 680-221296-1

Client	Sampl	e ID:	AF38	198

Date Collected: 07/07/22 12:37 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	95400		500		ug/L		09/20/22 05:39	09/20/22 15:52	1
Iron	1560		100		ug/L		09/20/22 05:39	09/20/22 15:52	1
Magnesium	7170		500		ug/L		09/20/22 05:39	09/20/22 15:52	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:52	1
Potassium	4910		1000		ug/L		09/20/22 05:39	09/20/22 15:52	1
Sodium	21600		2000		ug/L		09/20/22 05:39	09/20/22 15:52	1

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Method: 6020B - Meta						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	428		100		ug/L		09/20/22 05:39	09/21/22 00:02	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Arsenic	106		3.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Barium	72.5		5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Cobalt	1.45		0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:02	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:02	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:02	1
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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-32

Job ID: 680-221296-1

Matrix: Water

Client Samp	e ID: AF38199
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Date Collected: 07/07/22 11:37 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	94200		500		ug/L		09/20/22 05:22	09/20/22 16:37	1
Iron	2670		100		ug/L		09/20/22 05:22	09/20/22 16:37	1
Magnesium	3430		500		ug/L		09/20/22 05:22	09/20/22 16:37	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:37	1
Potassium	3500		1000		ug/L		09/20/22 05:22	09/20/22 16:37	1
Sodium	9770		2000		ug/L		09/20/22 05:22	09/20/22 16:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100	-	ug/L		09/20/22 05:22	09/20/22 21:23	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Arsenic	242		3.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Barium	60.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Cobalt	0.620		0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:23	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:23	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:23	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-33

Job ID: 680-221296-1

Matrix: Water

Client Sample ID: AF38200

Date Collected: 07/14/22 11:50 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	131000		500		ug/L		09/20/22 05:22	09/20/22 17:02	1
Iron	448		100		ug/L		09/20/22 05:22	09/20/22 17:02	1
Magnesium	7380		500		ug/L		09/20/22 05:22	09/20/22 17:02	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 17:02	1
Potassium	4190		1000		ug/L		09/20/22 05:22	09/20/22 17:02	1
Sodium	5810		2000		ug/L		09/20/22 05:22	09/20/22 17:02	1

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Method: 6020B - Meta									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:54	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Arsenic	3.70		3.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Barium	36.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:54	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:54	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:54	1
49									

Job ID: 680-221296-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-741164/1-A

Analysis Batch: 741353

Matrix: Water

Client Sample ID: Method Blank Prep Type: Total Recoverable **Prep Batch: 741164** 

•	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500	-	ug/L		09/20/22 05:03	09/20/22 16:02	1
Iron	100	U	100		ug/L		09/20/22 05:03	09/20/22 16:02	1
Magnesium	500	U	500		ug/L		09/20/22 05:03	09/20/22 16:02	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:03	09/20/22 16:02	1
Potassium	1000	U	1000		ug/L		09/20/22 05:03	09/20/22 16:02	1
Sodium	2000	U	2000		ug/L		09/20/22 05:03	09/20/22 16:02	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 680-741164/2-A **Matrix: Water Prep Type: Total Recoverable** 

Analysis Batch: 741353							Prep Batch: 741164
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	5000	4657	6	ug/L	11 (77)	93	80 - 120
Iron	5000	4673		ug/L		93	80 - 120
Magnesium	5010	4559		ug/L		91	80 - 120
Molybdenum	100	94.69		ug/L		95	80 - 120
Potassium	6970	6518		ug/L		94	80 - 120
Sodium	5050	4561		ug/L		90	80 - 120

Lab Sample ID: MB 680-741168/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total Recoverable Analysis Batch: 741362 **Prep Batch: 741168** 

	IVI D	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		09/20/22 05:39	09/20/22 14:59	1
Iron	100	U	100		ug/L		09/20/22 05:39	09/20/22 14:59	1
Magnesium	500	U	500		ug/L		09/20/22 05:39	09/20/22 14:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 14:59	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 14:59	1
Sodium	2000	U	2000		ug/L		09/20/22 05:39	09/20/22 14:59	1
A SECTION AND AND AND AND AND AND AND AND AND AN		178							

Lab Sample ID: LCS 680-741168/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 741362							Prep Batch: 741168
Of the Bolderia & State Control of the State Contro	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	5000	4439	A	ug/L		89	80 - 120
Iron	5000	4471		ug/L		89	80 - 120

	Calcium	5000	4439	ug/L	89	80 - 120
	Iron	5000	4471	ug/L	89	80-120
	Magnesium	5010	4398	ug/L	88	80-120
	Molybdenum	100	91.51	ug/L	92	80-120
	Potassium	6970	6275	ug/L	90	80-120
	Sodium	5050	4387	ug/L	87	80 - 120
ı						

Lab Sample ID: 680-221296-27 MS Client Sample ID: AF38194 Prep Type: Total Recoverable Matrix: Water Analysis Ratch: 741362

Analysis Batch: 741362									<b>Prep Batch: 741168</b>
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	17600	F1	5000	21160	F1	ug/L		71	75 - 125

**Eurofins Savannah** 

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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

Lab Sample ID: 680-221296-27 MS

Matrix: Water

Analysis Batch: 741362

Client Sample ID: AF38194 Prep Type: Total Recoverable

Prep Batch: 741168

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	477	V 1	5000	5014	V	ug/L		91	75 - 125	
Magnesium	500	U	5010	4882		ug/L		88	75 - 125	
Molybdenum	10.0	U	100	92.76		ug/L		93	75 - 125	
Potassium	1000	U	6970	6946		ug/L		91	75 - 125	
Sodium	2380		5050	6698		ug/L		86	75 - 125	

Lab Sample ID: 680-221296-27 MSD

**Matrix: Water** 

Analysis Batch: 741362

Client Sample ID: AF38194
Prep Type: Total Recoverable

Prep Batch: 741168

Time, or Duton in the con-											
===	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	17600	F1	5000	20220	F1	ug/L		52	75 - 125	5	20
Iron	477		5000	4786		ug/L		86	75 - 125	5	20
Magnesium	500	U	5010	4683		ug/L		84	75 - 125	4	20
Molybdenum	10.0	U	100	89.00		ug/L		89	75 - 125	4	20
Potassium	1000	U	6970	6638		ug/L		87	75 - 125	5	20
Sodium	2380		5050	6425		ug/L		80	75 - 125	4	20

Lab Sample ID: MB 680-741508/1-A

**Matrix: Water** 

Analysis Batch: 741586

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 741508

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		09/21/22 13:44	09/21/22 18:29	1
Iron	100	U	100		ug/L		09/21/22 13:44	09/21/22 18:29	1
Magnesium	500	U	500		ug/L		09/21/22 13:44	09/21/22 18:29	1
Molybdenum	10.0	U	10.0		ug/L		09/21/22 13:44	09/21/22 18:29	1
Potassium	1000	U	1000		ug/L		09/21/22 13:44	09/21/22 18:29	1
Sodium	2000	U	2000		ug/L		09/21/22 13:44	09/21/22 18:29	1

Lab Sample ID: LCS 680-741508/2-A

**Matrix: Water** 

Analysis Batch: 741586

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

Prep Batch: 741508

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4999		ug/L	- 12 C-22	100	80 - 120	_
Iron	5000	5032		ug/L		101	80 - 120	
Magnesium	5010	5082		ug/L		101	80 - 120	
Molybdenum	100	99.43		ug/L		99	80 - 120	
Potassium	6970	7167		ug/L		103	80 - 120	
Sodium	5050	5000		ug/L		99	80 - 120	

Lab Sample ID: MB 680-742555/1-A

**Matrix: Water** 

Analysis Batch: 742783

Client Sample ID: Method Blank
Prep Type: Total Recoverable

Prep Batch: 742555

	IAIR	IAIR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500	25	ug/L	31 - 21	09/28/22 09:50	09/29/22 08:50	1
Iron	100	U	100		ug/L		09/28/22 09:50	09/29/22 08:50	1
Magnesium	500	U	500		ug/L		09/28/22 09:50	09/29/22 08:50	1
		Analyte         Result           Calcium         500           Iron         100	Calcium         500         U           Iron         100         U	Analyte         Result         Qualifier         RL           Calcium         500         U         500           Iron         100         U         100	Analyte         Result         Qualifier         RL         MDL           Calcium         500         U         500           Iron         100         U         100	Analyte         Result         Qualifier         RL         MDL         Unit           Calcium         500         U         500         ug/L           Iron         100         U         100         ug/L	Analyte         Result         Qualifier         RL         MDL         Unit         D           Calcium         500         U         500         ug/L           Iron         100         U         100         ug/L	Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared           Calcium         500         U         500         ug/L         09/28/22 09:50           Iron         100         U         100         ug/L         09/28/22 09:50	Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Calcium         500         U         500         ug/L         09/28/22 09:50         09/29/22 08:50           Iron         100         U         100         ug/L         09/28/22 09:50         09/29/22 08:50

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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

Lab Sample ID: MB 680-742555/1-A

**Matrix: Water** 

Analysis Batch: 742783

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 742555

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	10.0	U	10.0		ug/L		09/28/22 09:50	09/29/22 08:50	1
Potassium	1000	U	1000		ug/L		09/28/22 09:50	09/29/22 08:50	1
Sodium	2000	U	2000		ua/L		09/28/22 09:50	09/29/22 08:50	1

Lab Sample ID: LCS 680-742555/2-A

MB MB

Matrix: Water

Analysis Batch: 742783

llent	Sample	EID: Lab Control Sample
	Prep	Type: Total Recoverable
		Pron Ratch: 7/2555

Analysis Daten. 142103							1 1ep Daten. 142555
15	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	5000	4727		ug/L		95	80 - 120
Iron	5000	4818		ug/L		96	80 - 120
Magnesium	5010	5028		ug/L		100	80 - 120
Molybdenum	100	91.89		ug/L		92	80 - 120
Potassium	6970	7059		ug/L		101	80 - 120
Sodium	5050	4694		ug/L		93	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-741166/1-A

**Matrix: Water** 

Analysis Batch: 741389

Client S	Sample	ID: N	lethod Blank	
Prep	Type:	Total	Recoverable	

Prep Batch: 741166

Alialysis Dalcil. 141309								riep batcii.	41100
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:03	09/20/22 20:36	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:03	09/20/22 20:36	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:03	09/20/22 20:36	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:03	09/20/22 20:36	1

Lab Sample ID: LCS 680-741166/2-A

**Matrix: Water** 

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Drop Dotoby 7/1/166

Analysis Batch: 741389							Prep Batch: 741166
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	5623		ug/L		112	80 - 120
Antimony	50.0	56.11		ug/L		112	80 - 120
Arsenic	100	105.2		ug/L		105	80 - 120
Barium	100	103.7		ug/L		104	80 - 120
Beryllium	50.0	51.98		ug/L		104	80 - 120
Cadmium	50.0	56.02		ug/L		112	80 - 120
Chromium	100	113.3	^6+	ug/L		113	80 - 120

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

#### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-741166/2-A

Matrix: Water

Analysis Batch: 741389							Prep Batch: 741166
***	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cobalt	50.0	55.31		ug/L		111	80 - 120
Copper	100	120.0		ug/L		120	80 - 120
Lead	505	516.0		ug/L		102	80 - 120
Nickel	99.0	111.2		ug/L		112	80 - 120
Selenium	100	110.0		ug/L		110	80 - 120
Thallium	50.0	52.52		ug/L		105	80 - 120
Zinc	100	109.2		ug/L		109	80 - 120

Lab Sample ID: MB 680-741169/1-A

**Matrix: Water** 

Analysis Batch: 741389

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 741169

MB MB Analyte Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac Aluminum 100 U 100 ug/L 09/20/22 05:39 09/20/22 22:48 Antimony 5.00 U 5.00 ug/L 09/20/22 05:39 09/20/22 22:48 Arsenic 3.00 U 3.00 ug/L 09/20/22 05:39 09/20/22 22:48 Barium 5.00 U 5.00 ug/L 09/20/22 05:39 09/20/22 22:48 Beryllium 0.500 U 0.500 ug/L 09/20/22 05:39 09/20/22 22:48 Cadmium 0.500 U 0.500 ug/L 09/20/22 05:39 09/20/22 22:48 Chromium 5.00 U^6+ 5.00 ug/L 09/20/22 05:39 09/20/22 22:48 09/20/22 05:39 09/20/22 22:48 Cobalt 0.500 U 0.500 ug/L 5.00 U 09/20/22 05:39 09/20/22 22:48 Copper 5.00 ug/L 09/20/22 05:39 09/20/22 22:48 Lead 2.50 U 2.50 ug/L Nickel 5.00 U 5.00 09/20/22 05:39 09/20/22 22:48 ug/L Selenium 2.50 U 250 ug/L 09/20/22 05:39 09/20/22 22:48 Thallium 1.00 U 1.00 ug/L 09/20/22 05:39 09/20/22 22:48 09/20/22 05:39 09/20/22 22:48 Zinc 20.0 U 20.0 ug/L

Lab Sample ID: LCS 680-741169/2-A

Matrix: Water

Analysis Ratch: 741389

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable **Prep Batch: 741169** 

Analysis Batch: 741389	Spike	LCS	LCS				%Rec
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	5260	-	ug/L		105	80 - 120
Antimony	50.0	52.26		ug/L		105	80 - 120
Arsenic	100	96.83		ug/L		97	80 - 120
Barium	100	96.34		ug/L		96	80 - 120
Beryllium	50.0	47.57		ug/L		95	80 - 120
Cadmium	50.0	52.57		ug/L		105	80-120
Chromium	100	105.1	^6+	ug/L		105	80 - 120
Cobalt	50.0	52.87		ug/L		106	80 - 120
Copper	100	112.8		ug/L		113	80 - 120
Lead	505	478.5		ug/L		95	80 - 120
Nickel	99.0	105.6		ug/L		107	80-120
Selenium	100	103.8		ug/L		104	80-120
Thallium	50.0	49.34		ug/L		99	80 - 120
Zinc	100	103.1		ua/L		103	80 - 120

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-221296-27 MS

Matrix: Water Analysis Batch: 741389

Client Sample ID: AF38194 Prep Type: Total Recoverable

Prep Batch: 741169

Analysis Daten. 141309	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aluminum	3180	-	5000	7812	7-	ug/L		93	75 - 125
Antimony	5.00	U	50.0	49.36		ug/L		99	75 - 125
Arsenic	6.95		100	103.4		ug/L		96	75 - 125
Barium	32.4		100	125.1		ug/L		93	75 - 125
Beryllium	0.500	U	50.0	44.78		ug/L		89	75 - 125
Cadmium	0.500	U	50.0	51.08		ug/L		102	75 - 125
Chromium	5.00	U ^6+	100	100.3	^6+	ug/L		100	75 - 125
Cobalt	0.885		50.0	53.02		ug/L		104	75 - 125
Copper	5.00	Ü	100	109.8		ug/L		110	75 - 125
Lead	2.50	U	505	467.1		ug/L		93	75 - 125
Nickel	5.00	U	99.0	103.4		ug/L		104	75 - 125
Selenium	2.50	U	100	99.73		ug/L		100	75 - 125
Thallium	1.00	U	50.0	47.74		ug/L		95	75 - 125
Zinc	20.0	U	100	100.9		ug/L		101	75 - 125

Lab Sample ID: 680-221296-27 MSD

**Matrix: Water** 

Analysis Batch: 741389

Client Sample ID: AF38194 Prep Type: Total Recoverable

Prep Batch: 741169

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Unit Limits RPD Limit Analyte D %Rec Aluminum 3180 5000 8042 ug/L 97 75-125 3 20 Antimony 5.00 U 50.0 50.69 ug/L 101 75-125 3 20 Arsenic 6.95 100 102.2 ug/L 95 75 - 125 20 125.3 Barium 32.4 100 ug/L 93 75 - 125 0 20 50.0 Beryllium 0.500 U 44.51 ug/L 88 75-125 20 Cadmium 0.500 U 50.0 52.84 106 75 - 125 20 ug/L 102 100 75 - 125 2 Chromium 5.00 U ^6+ 101.8 ^6+ ug/L 20 Cobalt 0.885 50.0 52.19 ug/L 103 75 - 125 20 Copper 100 ug/L 112 75 - 125 2 20 5.00 U 112.1 Lead 2.50 U 505 474.1 ug/L 94 75 - 125 20 103.9 75 - 125 Nickel 99.0 ug/L 105 20 5.00 U Selenium 2.50 U 100 98.50 ug/L 98 75-125 20 Thallium 1.00 U 50.0 48.52 ug/L 97 75 - 125 20 Zinc 100 20.0 U 101.8 ug/L 102 75-125 20

Lab Sample ID: MB 680-741235/1-A

**Matrix: Water** 

Analysis Batch: 741576

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 741235

IVID	IVID							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
100	U	100		ug/L		09/20/22 10:24	09/22/22 01:29	1
5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
3.00	U	3.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
	Result 100 5.00 3.00 5.00 0.500 0.500 5.00 0.500	Result Qualifier  100 U  5.00 U  3.00 U  5.00 U  0.500 U  0.500 U  5.00 U  0.500 U  5.00 U  5.00 U	Result         Qualifier         RL           100         U         100           5.00         U         5.00           3.00         U         3.00           5.00         U         5.00           0.500         U         0.500           0.500         U         0.500           5.00         U         5.00           0.500         U         0.500           0.500         U         0.500	Result         Qualifier         RL         MDL           100         U         100           5.00         U         5.00           3.00         U         3.00           5.00         U         5.00           0.500         U         0.500           0.500         U         0.500           5.00         U         5.00           0.500         U         0.500	Result         Qualifier         RL         MDL         Unit           100         U         100         ug/L           5.00         U         5.00         ug/L           3.00         U         3.00         ug/L           5.00         U         5.00         ug/L           0.500         U         0.500         ug/L           0.500         U         5.00         ug/L           5.00         U         5.00         ug/L           0.500         U         0.500         ug/L	Result         Qualifier         RL         MDL         Unit         D           100         U         100         ug/L         ug/L           5.00         U         5.00         ug/L         ug/L           5.00         U         5.00         ug/L           0.500         U         0.500         ug/L           0.500         U         0.500         ug/L           5.00         U         5.00         ug/L           0.500         U         0.500         ug/L	Result         Qualifier         RL         MDL         Unit         D         Prepared           100         U         100         ug/L         09/20/22 10:24           5.00         U         5.00         ug/L         09/20/22 10:24           3.00         U         3.00         ug/L         09/20/22 10:24           5.00         U         5.00         ug/L         09/20/22 10:24           0.500         U         0.500         ug/L         09/20/22 10:24           0.500         U         0.500         ug/L         09/20/22 10:24           5.00         U         5.00         ug/L         09/20/22 10:24           0.500         U         0.500         ug/L         09/20/22 10:24           0.500         U         0.500         ug/L         09/20/22 10:24	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           100         U         100         ug/L         09/20/22 10:24         09/22/22 01:29           5.00         U         5.00         ug/L         09/20/22 10:24         09/22/22 01:29           3.00         U         3.00         ug/L         09/20/22 10:24         09/22/22 01:29           5.00         U         5.00         ug/L         09/20/22 10:24         09/22/22 01:29           0.500         U         0.500         ug/L         09/20/22 10:24         09/22/22 01:29           5.00         U         0.500         ug/L         09/20/22 10:24         09/22/22 01:29           5.00         U         0.500         ug/L         09/20/22 10:24         09/22/22 01:29           5.00         U         0.500         ug/L         09/20/22 10:24         09/22/22 01:29           0.500         U         0.500         ug/L         09/20/22 10:24         09/22/22 01:29           0.500         U         0.500         ug/L         09/20/22 10:24         09/22/22 01:29

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### **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-741235/1-A

**Matrix: Water** 

Analysis Batch: 741576

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 741235

	IVI B	INID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.50	U	2.50		ug/L		09/20/22 10:24	09/22/22 01:29	1
Nickel	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Selenium	2.50	U	2.50		ug/L		09/20/22 10:24	09/22/22 01:29	1
Thallium	1.00	U	1.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Zinc	20.0	U	20.0		ug/L		09/20/22 10:24	09/22/22 01:29	1

Lab Sample ID: LCS 680-741235/2-A

**Matrix: Water** 

Analysis Batch: 741576

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

**Prep Batch: 741235** 

Allalysis Batcii. 141310	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	5232		ug/L		105	80 - 120
Antimony	50.0	48.78		ug/L		98	80-120
Arsenic	100	97.45		ug/L		97	80 - 120
Barium	100	100.6		ug/L		101	80 - 120
Beryllium	50.0	49.39		ug/L		99	80 - 120
Cadmium	50.0	51.36		ug/L		103	80-120
Chromium	100	102.6		ug/L		103	80 - 120
Cobalt	50.0	53.39		ug/L		107	80 - 120
Copper	100	112.7		ug/L		113	80-120
Lead	505	493.6		ug/L		98	80 - 120
Nickel	99.0	105.8		ug/L		107	80 - 120
Selenium	100	105.2		ug/L		105	80 - 120
Thallium	50.0	50.37		ug/L		101	80-120
Zinc	100	107.5		ug/L		107	80 - 120

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

### Metals

#### Prep Batch: 741164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	3005A	
680-221296-5	AF38172	Total Recoverable	Water	3005A	
680-221296-6	AF38173	Total Recoverable	Water	3005A	
680-221296-7	AF38174	Total Recoverable	Water	3005A	
680-221296-15	AF38182	Total Recoverable	Water	3005A	
680-221296-17	AF38184	Total Recoverable	Water	3005A	
680-221296-19	AF38186	Total Recoverable	Water	3005A	
680-221296-20	AF38187	Total Recoverable	Water	3005A	
680-221296-21	AF38188	Total Recoverable	Water	3005A	
680-221296-26	AF38193	Total Recoverable	Water	3005A	
680-221296-28	AF38195	Total Recoverable	Water	3005A	
680-221296-29	AF38196	Total Recoverable	Water	3005A	
680-221296-30	AF38197	Total Recoverable	Water	3005A	
680-221296-32	AF38199	Total Recoverable	Water	3005A	
680-221296-33	AF38200	Total Recoverable	Water	3005A	
MB 680-741164/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741164/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Prep Batch: 741166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	3005A	<del></del>
680-221296-5	AF38172	Total Recoverable	Water	3005A	
680-221296-6	AF38173	Total Recoverable	Water	3005A	
680-221296-7	AF38174	Total Recoverable	Water	3005A	
680-221296-15	AF38182	Total Recoverable	Water	3005A	
680-221296-17	AF38184	Total Recoverable	Water	3005A	
680-221296-19	AF38186	Total Recoverable	Water	3005A	
680-221296-20	AF38187	Total Recoverable	Water	3005A	
680-221296-21	AF38188	Total Recoverable	Water	3005A	
680-221296-26	AF38193	Total Recoverable	Water	3005A	
680-221296-28	AF38195	Total Recoverable	Water	3005A	
680-221296-29	AF38196	Total Recoverable	Water	3005A	
680-221296-30	AF38197	Total Recoverable	Water	3005A	
680-221296-32	AF38199	Total Recoverable	Water	3005A	
680-221296-33	AF38200	Total Recoverable	Water	3005A	
MB 680-741166/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741166/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### **Prep Batch: 741168**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	3005A	
680-221296-2	AF38169	Total Recoverable	Water	3005A	
680-221296-4	AF38171	Total Recoverable	Water	3005A	
680-221296-8	AF38175	Total Recoverable	Water	3005A	
680-221296-9	AF38176	Total Recoverable	Water	3005A	
680-221296-10	AF38177	Total Recoverable	Water	3005A	
680-221296-11	AF38178	Total Recoverable	Water	3005A	
680-221296-12	AF38179	Total Recoverable	Water	3005A	
680-221296-13	AF38180	Total Recoverable	Water	3005A	
680-221296-14	AF38181	Total Recoverable	Water	3005A	
680-221296-18	AF38185	Total Recoverable	Water	3005A	

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

### **Metals (Continued)**

#### Prep Batch: 741168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-22	AF38189	Total Recoverable	Water	3005A	
680-221296-23	AF38190	Total Recoverable	Water	3005A	
680-221296-24	AF38191	Total Recoverable	Water	3005A	
680-221296-25	AF38192	Total Recoverable	Water	3005A	
680-221296-27	AF38194	Total Recoverable	Water	3005A	
680-221296-31	AF38198	Total Recoverable	Water	3005A	
MB 680-741168/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741168/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-221296-27 MS	AF38194	Total Recoverable	Water	3005A	
680-221296-27 MSD	AF38194	Total Recoverable	Water	3005A	

#### Prep Batch: 741169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	3005A	
680-221296-2	AF38169	Total Recoverable	Water	3005A	
680-221296-4	AF38171	Total Recoverable	Water	3005A	
680-221296-8	AF38175	Total Recoverable	Water	3005A	
680-221296-9	AF38176	Total Recoverable	Water	3005A	
680-221296-10	AF38177	Total Recoverable	Water	3005A	
680-221296-11	AF38178	Total Recoverable	Water	3005A	
680-221296-12	AF38179	Total Recoverable	Water	3005A	
680-221296-13	AF38180	Total Recoverable	Water	3005A	
680-221296-14	AF38181	Total Recoverable	Water	3005A	
680-221296-18	AF38185	Total Recoverable	Water	3005A	
680-221296-22	AF38189	Total Recoverable	Water	3005A	
680-221296-23	AF38190	Total Recoverable	Water	3005A	
680-221296-24	AF38191	Total Recoverable	Water	3005A	
680-221296-25	AF38192	Total Recoverable	Water	3005A	
680-221296-27	AF38194	Total Recoverable	Water	3005A	
680-221296-31	AF38198	Total Recoverable	Water	3005A	
MB 680-741169/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741169/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-221296-27 MS	AF38194	Total Recoverable	Water	3005A	
680-221296-27 MSD	AF38194	Total Recoverable	Water	3005A	

#### **Prep Batch: 741235**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	3005A	—— : :
MB 680-741235/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741235/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Analysis Batch: 741353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	6010D	741164
680-221296-5	AF38172	Total Recoverable	Water	6010D	741164
680-221296-6	AF38173	Total Recoverable	Water	6010D	741164
680-221296-7	AF38174	Total Recoverable	Water	6010D	741164
680-221296-15	AF38182	Total Recoverable	Water	6010D	741164
680-221296-17	AF38184	Total Recoverable	Water	6010D	741164
680-221296-19	AF38186	Total Recoverable	Water	6010D	741164
680-221296-20	AF38187	Total Recoverable	Water	6010D	741164

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Job ID: 680-221296-1

### **Metals (Continued)**

#### Analysis Batch: 741353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-21	AF38188	Total Recoverable	Water	6010D	741164
680-221296-26	AF38193	Total Recoverable	Water	6010D	741164
680-221296-28	AF38195	Total Recoverable	Water	6010D	741164
680-221296-29	AF38196	Total Recoverable	Water	6010D	741164
680-221296-30	AF38197	Total Recoverable	Water	6010D	741164
680-221296-32	AF38199	Total Recoverable	Water	6010D	741164
680-221296-33	AF38200	Total Recoverable	Water	6010D	741164
MB 680-741164/1-A	Method Blank	Total Recoverable	Water	6010D	741164
LCS 680-741164/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741164

#### Analysis Batch: 741362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	6010D	741168
680-221296-2	AF38169	Total Recoverable	Water	6010D	741168
680-221296-4	AF38171	Total Recoverable	Water	6010D	741168
680-221296-8	AF38175	Total Recoverable	Water	6010D	741168
680-221296-9	AF38176	Total Recoverable	Water	6010D	741168
680-221296-10	AF38177	Total Recoverable	Water	6010D	741168
680-221296-11	AF38178	Total Recoverable	Water	6010D	741168
680-221296-12	AF38179	Total Recoverable	Water	6010D	741168
680-221296-13	AF38180	Total Recoverable	Water	6010D	741168
680-221296-14	AF38181	Total Recoverable	Water	6010D	741168
680-221296-18	AF38185	Total Recoverable	Water	6010D	741168
680-221296-22	AF38189	Total Recoverable	Water	6010D	741168
680-221296-23	AF38190	Total Recoverable	Water	6010D	741168
680-221296-24	AF38191	Total Recoverable	Water	6010D	741168
680-221296-25	AF38192	Total Recoverable	Water	6010D	741168
680-221296-27	AF38194	Total Recoverable	Water	6010D	741168
680-221296-31	AF38198	Total Recoverable	Water	6010D	741168
MB 680-741168/1-A	Method Blank	Total Recoverable	Water	6010D	741168
LCS 680-741168/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741168
680-221296-27 MS	AF38194	Total Recoverable	Water	6010D	741168
680-221296-27 MSD	AF38194	Total Recoverable	Water	6010D	741168

#### Analysis Batch: 741389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	6020B	741169
680-221296-2	AF38169	Total Recoverable	Water	6020B	741169
680-221296-3	AF38170	Total Recoverable	Water	6020B	741166
680-221296-4	AF38171	Total Recoverable	Water	6020B	741169
680-221296-5	AF38172	Total Recoverable	Water	6020B	741166
680-221296-6	AF38173	Total Recoverable	Water	6020B	741166
680-221296-7	AF38174	Total Recoverable	Water	6020B	741166
680-221296-8	AF38175	Total Recoverable	Water	6020B	741169
680-221296-9	AF38176	Total Recoverable	Water	6020B	741169
680-221296-10	AF38177	Total Recoverable	Water	6020B	741169
680-221296-11	AF38178	Total Recoverable	Water	6020B	741169
680-221296-12	AF38179	Total Recoverable	Water	6020B	741169
680-221296-13	AF38180	Total Recoverable	Water	6020B	741169
680-221296-14	AF38181	Total Recoverable	Water	6020B	741169
680-221296-15	AF38182	Total Recoverable	Water	6020B	741166

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Job ID: 680-221296-1

### **Metals (Continued)**

#### Analysis Batch: 741389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-17	AF38184	Total Recoverable	Water	6020B	741166
680-221296-18	AF38185	Total Recoverable	Water	6020B	741169
680-221296-19	AF38186	Total Recoverable	Water	6020B	741166
680-221296-20	AF38187	Total Recoverable	Water	6020B	741166
680-221296-21	AF38188	Total Recoverable	Water	6020B	741166
680-221296-22	AF38189	Total Recoverable	Water	6020B	741169
680-221296-23	AF38190	Total Recoverable	Water	6020B	741169
680-221296-24	AF38191	Total Recoverable	Water	6020B	741169
680-221296-25	AF38192	Total Recoverable	Water	6020B	741169
680-221296-26	AF38193	Total Recoverable	Water	6020B	741166
680-221296-27	AF38194	Total Recoverable	Water	6020B	741169
680-221296-28	AF38195	Total Recoverable	Water	6020B	741166
680-221296-29	AF38196	Total Recoverable	Water	6020B	741166
680-221296-30	AF38197	Total Recoverable	Water	6020B	741166
680-221296-31	AF38198	Total Recoverable	Water	6020B	741169
680-221296-32	AF38199	Total Recoverable	Water	6020B	741166
680-221296-33	AF38200	Total Recoverable	Water	6020B	741166
MB 680-741166/1-A	Method Blank	Total Recoverable	Water	6020B	741166
MB 680-741169/1-A	Method Blank	Total Recoverable	Water	6020B	741169
LCS 680-741166/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741166
LCS 680-741169/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741169
680-221296-27 MS	AF38194	Total Recoverable	Water	6020B	741169
680-221296-27 MSD	AF38194	Total Recoverable	Water	6020B	741169

#### Prep Batch: 741508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	3005A	
MB 680-741508/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741508/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

#### Analysis Batch: 741576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	6020B	741235
MB 680-741235/1-A	Method Blank	Total Recoverable	Water	6020B	741235
LCS 680-741235/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741235

#### Analysis Batch: 741586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-4	AF38171	Total Recoverable	Water	6010D	741168
680-221296-5	AF38172	Total Recoverable	Water	6010D	741164
680-221296-6	AF38173	Total Recoverable	Water	6010D	741164
680-221296-16	AF38183	Total Recoverable	Water	6010D	741508
MB 680-741508/1-A	Method Blank	Total Recoverable	Water	6010D	741508
LCS 680-741508/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741508

### Prep Batch: 742555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-27	AF38194	Total Recoverable	Water	3005A	
MB 680-742555/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-742555/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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Job ID: 680-221296-1

### Metals

#### Analysis Batch: 742783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-27	AF38194	Total Recoverable	Water	6010D	742555
MB 680-742555/1-A	Method Blank	Total Recoverable	Water	6010D	742555
LCS 680-742555/2-A	Lab Control Sample	Total Recoverable	Water	6010D	742555

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Client Sample ID: AF38168

Date Collected: 07/06/22 14:06 Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:29
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:35

Client Sample ID: AF38169 Lab Sample ID: 680-221296-2

Date Collected: 07/06/22 14:11 **Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	# 8		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:11
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:07

Lab Sample ID: 680-221296-3 Client Sample ID: AF38170

Date Collected: 07/18/22 13:12 **Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	W F1		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:24
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 20:55

Client Sample ID: AF38171 Lab Sample ID: 680-221296-4 Matrix: Water

Date Collected: 07/20/22 14:12

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:41
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:27
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:54

Client Sample ID: AF38172 Lab Sample ID: 680-221296-5

Date Collected: 07/20/22 14:17 **Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	# 8		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:54
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:33

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38172

Date Collected: 07/20/22 14:17 Date Received: 09/16/22 10:30 Lab Sample ID: 680-221296-5

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	s :-		741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:42

Client Sample ID: AF38173

Date Collected: 07/20/22 11:00 Date Received: 09/16/22 10:30 Lab Sample ID: 680-221296-6

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:39
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:30
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:26

Client Sample ID: AF38174

Date Collected: 07/20/22 12:20

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-7

Matrix: Water

watrix: water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		=	741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:59
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:50

Client Sample ID: AF38175

Date Collected: 07/20/22 13:17

Date Received: 09/16/22 10:30

Lab Sample	ID:	680-221296-8
		Billatoises Mater

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	ip ta		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:39
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:50

Client Sample ID: AF38176

Date Collected: 07/18/22 14:30

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-9 Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:57
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:09

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Lab Sample ID: 680-221296-10

Matrix: Water

Client Sample ID: AF38177 Date Collected: 07/14/22 12:48 Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:31
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:39

Lab Sample ID: 680-221296-11

Matrix: Water

Date Collected: 07/12/22 12:35 Date Received: 09/16/22 10:30

Client Sample ID: AF38178

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed Type **Prep Type** Run Factor Lab 09/20/22 05:39 Total Recoverable 3005A 741168 RR EET SAV Prep Total Recoverable 6010D 741362 BCB 09/20/22 15:54 Analysis **EET SAV** 1 Total Recoverable Prep 3005A 741169 RR **EET SAV** 09/20/22 05:39 EET SAV Total Recoverable Analysis 6020B 741389 BWR 09/21/22 00:06 1

Client Sample ID: AF38179 Lab Sample ID: 680-221296-12

Matrix: Water

Date Collected: 07/12/22 12:40 Date Received: 09/16/22 10:30

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number Analyst Lab or Analyzed Total Recoverable Prep 3005A 741168 RR **EET SAV** 09/20/22 05:39 Total Recoverable 6010D 741362 BCB Analysis **EET SAV** 09/20/22 15:34 1 Total Recoverable Prep 3005A 741169 RR EET SAV 09/20/22 05:39 Total Recoverable EET SAV 09/20/22 23:42 6020B 741389 BWR Analysis 1

Client Sample ID: AF38180 Lab Sample ID: 680-221296-13

Date Collected: 07/07/22 14:43

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:26
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:23

Client Sample ID: AF38181 Lab Sample ID: 680-221296-14

Date Collected: 07/13/22 11:08 Matrix: Water

Date Received: 09/16/22 10:30

2	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	15.		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:24
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:19

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Matrix: Water

Client Sample ID: AF38182

Date Collected: 07/28/22 11:00 Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-15

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:29
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:03

**Client Sample ID: AF38183** 

Date Collected: 07/14/22 10:45

Date Received: 09/16/22 10:30

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ah	Sam	nle	ID:	680	-221	296-16

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741508	ВСВ	EET SAV	09/21/22 13:44
Total Recoverable	Analysis	6010D		1	741586	ВЈВ	EET SAV	09/21/22 18:45
Total Recoverable	Prep	3005A			741235	RR	EET SAV	09/20/22 10:24
Total Recoverable	Analysis	6020B		1	741576	BWR	EET SAV	09/22/22 02:15

Client Sample ID: AF38184

Date Collected: 07/07/22 13:44

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-17

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	D F		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:52
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:38

Client Sample ID: AF38185

Date Collected: 07/13/22 12:25

Date Received: 09/16/22 10:30

_ab	Samp	le l	D:	680	-221	296-18	3

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	ip ta		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:14
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:11

Client Sample ID: AF38186

Date Collected: 07/13/22 15:31

Date Received: 09/16/22 10:30

Lab	Sample	ID:	680-221296-1	9
			FERRIS TOUTE FERENCE OF	

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	15. 10.		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:34
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:11

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Client Sample ID: AF38187

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-20 Date Collected: 07/11/22 10:30

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	4 8		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:42
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:30

Lab Sample ID: 680-221296-21 Client Sample ID: AF38188 Date Collected: 07/11/22 11:41

Matrix: Water

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:44
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:34

Lab Sample ID: 680-221296-22 Client Sample ID: AF38189 Date Collected: 07/11/22 11:46

**Matrix: Water** 

Date Received: 09/16/22 10:30

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number Analyst Lab or Analyzed Total Recoverable Prep 3005A 741168 RR **EET SAV** 09/20/22 05:43 Total Recoverable 6010D 741362 BCB 09/20/22 15:59 Analysis **EET SAV** 1 Total Recoverable Prep 3005A 741169 RR EET SAV 09/20/22 05:43 Total Recoverable 741389 BWR EET SAV 09/21/22 00:21 Analysis 6020B 1

Client Sample ID: AF38190 Lab Sample ID: 680-221296-23

Date Collected: 07/06/22 10:23 Matrix: Water

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	- F		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:36
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:46

Client Sample ID: AF38191 Lab Sample ID: 680-221296-24

Date Collected: 07/12/22 10:44 Matrix: Water

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:21
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:15

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Client Sample ID: AF38192 Lab Sample ID: 680-221296-25 Date Collected: 07/12/22 14:55

Matrix: Water

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:44
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:58

Client Sample ID: AF38193 Lab Sample ID: 680-221296-26 Date Collected: 07/11/22 13:38

**Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:32
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:07

Lab Sample ID: 680-221296-27 Client Sample ID: AF38194

Date Collected: 07/11/22 14:41 Matrix: Water

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	- 10 E4		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:04
Total Recoverable	Prep	3005A			742555	RR	EET SAV	09/28/22 09:50
Total Recoverable	Analysis	6010D		1	742783	BJB	EET SAV	09/29/22 09:40
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 22:56

Client Sample ID: AF38195 Lab Sample ID: 680-221296-28

Date Collected: 07/11/22 15:35 Matrix: Water Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 17:04
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:58

Client Sample ID: AF38196 Lab Sample ID: 680-221296-29

Date Collected: 07/11/22 15:40 **Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	# 8		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:27
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 20:59

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Lab Sample ID: 680-221296-30

**Matrix: Water** 

Date Collected: 07/12/22 13:58 Date Received: 09/16/22 10:30

Client Sample ID: AF38197

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:57
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:46

Client Sample ID: AF38198 Lab Sample ID: 680-221296-31 Date Collected: 07/07/22 12:37

**Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	# B		741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:52
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:02

Client Sample ID: AF38199 Lab Sample ID: 680-221296-32

Date Collected: 07/07/22 11:37 **Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	W F1		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:37
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:23

Client Sample ID: AF38200 Lab Sample ID: 680-221296-33

Date Collected: 07/14/22 11:50 **Matrix: Water** 

Date Received: 09/16/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	ie re		741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 17:02
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:54

Laboratory References:

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

Santee Cooper One Riverwood Drive Moneks 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 LCWILLIA 125915 / JM02.09.GØ1.1/ 36500 @santeecooper.com (Yes) No **Analysis Group** Labworks ID# Sample Location/ Comments TOTALMETALS Preservative (see below) Bottle type: (Glass-G/Plastic-P) Matrix(see below) (Internal use Description **Collection Date Collection Time** Total # of containers Method# Sample Collecto only) Reporting limit Grab (G) or Composite (C) BELOW Misc. sample info Any other notes DEW 1 2 7/6/22 1406 USE APPROPRIATE AF38168 WAP- 12 BM P G GW TO MEET RLS METHED 12 DUP 1411 69 7/18 -SEE SHEET FOR PLS 13 1312 70 DEW 7/20 71 14 1412 DJ 1/20 1417 72 14 DUP 73 7/20 14A 1100 74 14 B 1220 680-221296 Chain of Custody 75 140 1317 76 WAP-15 1/18 1430 TEN 1248 7/14 77 WAP- # 16 BM Sample Receiving (Internal Use Only) Relinguished by: Employee# Received by: Date Time Employee# Date Time TEMP (°C):\_ Initial: Sylywan 35594 9/15/22 1500 Correct pH: Yes Relinquished by: Employee# Date Time Received by: Employee# Date Time Preservative Lot#: Relinquished by: Employee# Date Received by: Date Time Employee# Time Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. Gypsum Coal Oil Flyash Ø Cu Ø Sb □ Ag D TOC □ BTEX □ Wallboard Trans. Oil Qual. ☐ Ultimate ☐ Ammonia Z Al Ø Fe ☑ Se □ Napthalene DDOC Gypsum(all %Moisture □ % Moisture DLOI Z As ØK □ Sn □ TP/TPO4 □ THM/HAA below) Color □ Ash □ % Carbon DVOC □ AlM Acidity □ NH3-N DВ O Li □ Sr ☐ Sulfur ☐ Mineral Oil & Grease Dielectric Strength O TOC DF D BTUs Analysis □ E. Coli IET. Ø Ba ØMg O Ti □ Total metals D CI ☐ Volatile Matter ☐ Sieve Dissolved Gases ☐ Total Coliform □ Soluble Metals Ве Ø TI □ Mn □ NO2 O CHN  $\square$  pH □ % Moisture Used Oil □ Purity (CaSO4) O Br ☐ Dissolved As Other Tests: Flashpoint □ % Moisture [2∕Ca Z Mo  $\square V$ ☐ Dissolved Fe □ NO3 □ Sulfites. ☐ XRF Scan Metals in oil NPDES (As,Cd,Cr,Ni,Pb Hg) Ø Cd Ø Na ZZn ☐ Rad 226 □ HG1 □ SO4 □pH □ Oil & Grease ☐ Rad 228 C Chlorides □ Fineness Z Co □/Ni □Hg □ As □ TSS □ PCB ☐ Particulate Matter □ Particle Size Z Pb GOFER Z Cr □ CrVI OSulfur



Santes 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			J QC	
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2001212120	vorks ID # rnal use I	Sample Descrip		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	Me     Rep     Mis     Any	Comm thod # porting limit ic. sample in other notes	nfo	METALS	BELOW		
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_□ Cr	□ Pb	, <u>  1</u>	I CIVI			Mar. 7000 1000 1000		J <u></u>	Sulfur			\$ \$~		<u> </u>	of	7/1	bles		070



Santee Cooper One Riverwood Drive Moncks Corner SC 29461 ne (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 / JM02.09.GØI.1 / 36500 Yes No @santeecooper.com **Analysis Group** Labworks ID # Sample Location/ Comments METALS Matrix(see below Collection Time (Internal use Preservative (see below) Description Collection Date Method # Sample Collecto Total # of contals only) Grab (G) or Composite (C) Reporting limit Bottle type: (( G/Plastic-P) Misc. sample info TOTAL CHRIS Any other notes 2 7/11 B GW AF38188 WAP-26 USE APPROPRIATE METHOD 1141 TO MEET IPLS. 1 89 WAP-26 DUP 1146 7/6 SEE SHEET FOR RLS 90 1023 MBM-1 91 7/12 1044 WBW-AI-I 1/12 92 1455 WLF AI-1 7/11 93 1338 WLF-A1-2 94 3 1441 4 95 1535 96 4 DUP 1540 7/12 1358 WLF-A1-5 97 Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee# Date Time TEMP (°C): Initial: 9/15/22 1500 SHIroun Correct pH: Yes Employee # Relinguished by: Received by: Date Time Employee# Date Time Preservative Lot#: Employee # Date Time Relinquished by: Date Received by: Employee# Time Date/Time/Init for preservative: ☐ METALS (all ) Coal **Nutrients** MISC. Gypsum Oil Flyash □ Ag □ Cu □ Sb Trans. Oil Qual. □ TOC □ Wallboard DBTEX □ Ultimate Ammonia □ Se □ Fe ☐ Napthalene Gypsum(all %Moisture □ DOC ☐ % Moisture n Lot □ As □ Sn □ THM/HAA Celer  $\Box K$ below) □ TP/TPO4 □ Ash □ % Carbon □ VOC Acidity □ NH3-N ☐ Sulfur □ Mineral ΠВ 🛛 Li □ Sr Dielectric Strength ☐ Oil & Grease C TOC OF □ BTUs Analysis □ E. Coli IFT □ Total metals □ Ba □ Tı □ Mg □ CI ☐ Volatile Matter □ Sieve Dissolved Gases ☐ Total Coliform ☐ Soluble Metals □ Be □ Mn □ NO2 □pH □ Purity (CaSO4) ☐ % Moisture Used Oil () Br ☐ Dissolved As Other Tests: Flashpoint ☐ % Moisture □ Ca  $\square V$ □Мо ☐ Dissolved Fe ☐ XRF Scan Metals in oil □ NO3 ☐ Sulfites **NPDES** (As,Cd,Ct,Ni,Pb □ Cd □ Na  $\square$  Zn ☐ Rad 226 □ HGI □ SO4 □pH □ Oil & Grease Hg) ☐ Rad 228 ☐ Fineness □ Chlorides □ Hg □Со □ Ni 🗆 As TX □ PCB ☐ Particulate Matter ☐ Particle Size □ TSS \_GOFER □Ст □РЬ ☐ CrVI □ Sulfur Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boller water, L-limestone, Oll-oll, S-Soll, SL-solid, 24 1/24.0



Custom	er Email,	Report/	Recipie	ent:	Date I	Results Ne	eded b	y:		Pr	oject/	Task/l	Unit #:	ĺ	Rerun reque	st for	any	flagge	ed QC
LCWI	LUA	@	anteec	ooper.com					125	915	1 on	102.6	9 GØ1.1	/ 36500	_ (Ye	s) N	0		
					1										-			ysis Gr	oup
Labwork (Internal only)		Sample Descrip	Location	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 below)	Met     Rep     Mis     Any	Comment hod # orting limit c. sample info other notes	6	METALS	SEE BELOW		
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Relinqu	ished by:	Em	ployee#	Date	Time	Receiv	ed by:	E	mployee	#	Date		Time	Correct pl		No			
			i i										1	Preservati	e Lot#:				
Relinqu	ilshed by:	Emj	oloyee#	Date	Time	Receiv	ed by:	Ei	mployee	#	Date		Time						
					Leading to the second									Date/Time,	Init for prese	ervativ	e:		
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	□ Fe		□ Se	D DC	oc	☐ Napthale			Gyp	sum(a	II .		☐ % Moist	ure 🔲 🛭	.01			oisture	
□ As	□ K		□ Sn	□ TP. □ NI-	/TPO4	□ VOC	C41801X		beloi				☐ Ash ☐ Sulfur		% Carbon Mineral		Acid	ity	
□ B □ Ba	□ Li □ Mg		□ Sr □ Ti	DF		□ Oil & Gi	ease		□ TO		le		□ BTUs		Analysis		Dielec IFT	tric Stre	ngth
-				D CI		☐ Total Co	liform		□ Sol	uble Me	etals		□ Volatile		lieve			olved (i	ases
□ Be	□ Mr		ITI IV	□ NC		□ pH □ Dissolve				ity (Cas Moistur		0	☐ CHN ther Tests:	U.	% Moisture			point	
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				E SO	4	☐ Rad 228				orides		01	Fineness		il & Grease		Hg)		
□ Co			∃ Hg ∃ CrVI	-		□ PCB		1	∐ Pari ∃ Sulfur	ticle Siz	(¢	- 1 100 PROS	Particulate Ma	itter 07			DOFE SOFE	R	
														and the state of t		7	6	7/16	122

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

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		EUT 400 GA
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	gPl Sin Ste	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	
lron'	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	200 EME 200	40 40 40
Potassium	mg/L		
Selenium	ug/L	50	5
Sodium	mg/L		and the sp.
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: 680-221296-1

Login Number: 221296 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: 680-221296-1

### **Laboratory: Eurofins Savannah**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.



## **Environment Testing**

## **ANALYTICAL REPORT**

Eurofins Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-223949-1

Client Project/Site: 125915/JM02.09.G011/36500

For:

South Carolina Public Service Authority Santee Cooper PO BOX 2946101 Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by: 10/28/2022 4:35:45 PM

Jerry Janier

Jerry Lanier, Project Manager I (912)250-0281

Jerry.Lanier@et.eurofinsus.com

·····LINKS ······

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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#### **Case Narrative**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Job ID: 680-223949-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-223949-1

#### Receipt

The samples were received on  $10/25/2022\ 10:30\ AM$ . Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was  $19.2^{\circ}C$ 

#### 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.G011/36500

Job ID: 680-223949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-223949-1	AF47330	Water	10/20/22 10:47	10/25/22 10:30
680-223949-2	AF47329	Water	10/20/22 12:20	10/25/22 10:30
680-223949-3	AF47327	Water	10/20/22 13:18	10/25/22 10:30
680-223949-4	AF47331	Water	10/20/22 15:39	10/25/22 10:30
680-223949-5	AF47328	Water	10/20/22 13:23	10/25/22 10:30
680-223949-6	AF47323	Water	10/21/22 12:19	10/25/22 10:30
680-223949-7	AF47334	Water	10/21/22 12:24	10/25/22 10:30
680-223949-8	AF47332	Water	10/21/22 10:47	10/25/22 10:30

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### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

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/JM02.09.G011/36500

Job ID: 680-223949-1

#### Qualifiers

#### Metals

MQL

NC

ND NEG

POS

PQL

QC

RL RPD

TEF

TEQ

TNTC

RER

**PRES** 

Qualifier **Qualifier Description** 

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

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

Client Sample ID: AF47330

Job ID: 680-223949-1

Unit Dil Fac D Method Prep Type

1 1 6010D Total

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	270000	<u> </u>	500		ug/L	1		6010D	Total
									Recoverable
Iron	14600		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	30.6		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	135		5.00		ug/L	1		6020B	Total
									Recoverable

Lab Sample ID: 680-223949-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	159000		500		ug/L		-	6010D	Total
									Recoverable
Iron	5340		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	225		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	79.1		5.00		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF47327 Lab Sample ID: 680-223949-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97100		500	7.0	ug/L	1	- C	6010D	Total
									Recoverable
Iron	69900		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	86.0		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	108		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	1.53		0.500		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF47331 Lab Sample ID: 680-223949-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	112000	·	500		ug/L		_	6010D	Total
									Recoverable
Iron	3160		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	65.7		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	82.7		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	5.03		0.500		ug/L	1		6020B	Total
									Recoverable
Nickel	5.56		5.00		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF47328 Lab Sample ID: 680-223949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	121000		500	-	ug/L	1	-	6010D	Total
									Recoverable
Iron	3490		100		ug/L	1		6010D	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

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10/28/2022

Job ID: 680-223949-1

Lab Sample ID: 680-223949-5

Lab Sample ID: 680-223949-6

Lab Sample ID: 680-223949-7

Lab Sample ID: 680-223949-8

Total Recoverable

Client Sam	ple ID: Al	F47328 (	Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	69.5	<u> </u>	3.00		ug/L			6020B	Total
									Recoverable
Barium	91.8		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	5.72		0.500		ug/L	1		6020B	Total
									Recoverable
Nickel	6.32		5.00		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF47323

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	663000		500		ug/L	1		6010D	Total
									Recoverable
Iron	39100		100		ug/L	1		6010D	Total
									Recoverable
Barium	50.6		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	7.08		0.500		ug/L	1		6020B	Total
									Recoverable
Selenium	3.68		2.50		ug/L	1		6020B	Total

#### Client Sample ID: AF47334

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	616000		500	5.	ug/L	1		6010D	Total
									Recoverable
Iron	36500		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	3.41		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	46.7		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	6.83		0.500		ug/L	1		6020B	Total
									Recoverable
Selenium	3.50		2.50		ug/L	1		6020B	Total
									Recoverable

### Client Sample ID: AF47332

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	89300	500		ug/L	1		6010D	Total
								Recoverable
Iron	81800	100		ug/L	1		6010D	Total
								Recoverable
Barium	257	5.00		ug/L	1		6020B	Total
								Recoverable
Beryllium	1.27	0.500		ug/L	1		6020B	Total
								Recoverable
Cobalt	19.7	0.500		ug/L	ì		6020B	Total
								Recoverable
Lead	3.55	2.50		ug/L	1		6020B	Total
								Recoverable
Nickel	7.63	5.00		ug/L	1		6020B	Total
								Recoverable
Selenium	4.48	2.50		ug/L	1		6020B	Total
								Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

### **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

### Client Sample ID: AF47332 (Continued)

Lab Sample ID: 680-223949-8

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Zinc	24.8	20.0	ug/L	1	6020B	Total
L						Recoverable

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### **Client Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Lab Sample ID: 680-223949-1

Matrix: Water

Job ID: 680-223949-1

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Client Sample ID: AF47330

Date Collected: 10/20/22 10:47 Date Received: 10/25/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270000		500		ug/L		10/26/22 10:40	10/27/22 15:49	1
Iron	14600		100		ug/L		10/26/22 10:40	10/27/22 15:49	1

	14000		100		ug/ L		10/20/22 10.10	10/21/22 10:10	
Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	21 -21	10/26/22 10:40	10/27/22 14:30	1
Arsenic	30.6		3.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Barium	135		5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:30	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:30	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Cobalt	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:30	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:30	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:30	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:30	1

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### **Client Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID: 680-223949-2

Matrix: Water

Client Sample ID: AF47329

Date Collected: 10/20/22 12:20 Date Received: 10/25/22 10:30

Method: SW846 6010D	- Metals (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	159000		500		ug/L		10/26/22 10:40	10/27/22 15:52	1
Iron	5340		100		ug/L		10/26/22 10:40	10/27/22 15:52	1

II OII	3340		100		ug/ L		10/20/22 10.10	10/21/22 10:02	15
Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	e						
Analyte	CONTROL STATE OF THE PROPERTY	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	21 -21	10/26/22 10:40	10/27/22 14:33	1
Arsenic	225		3.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Barium	79.1		5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:33	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:33	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Cobalt	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:33	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:33	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:33	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:33	1

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### **Client Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID: 680-223949-3

Matrix: Water

Client Sample ID: AF47327

Date Collected: 10/20/22 13:18 Date Received: 10/25/22 10:30

Method: SW846 6010D -	Metals (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97100		500		ug/L		10/26/22 10:40	10/27/22 15:55	1
Iron	69900		100		ug/L		10/26/22 10:40	10/27/22 15:55	1

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Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	9						
Analyte	Contraction and Contraction of the Contraction of t	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	21 -21	10/26/22 10:40	10/27/22 14:36	1
Arsenic	86.0		3.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Barium	108		5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:36	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:36	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Cobalt	1.53		0.500		ug/L		10/26/22 10:40	10/27/22 14:36	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:36	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:36	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Zinc	20.0	U	20.0		ua/L		10/26/22 10:40	10/27/22 14:36	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Lab Sample ID: 680-223949-4

Matrix: Water

Job ID: 680-223949-1

Client Sample ID: AF47331 Date Collected: 10/20/22 15:39

Date Received: 10/25/22 10:30

Method: SW846 6010D - Me	etals (ICP) - Total Rec	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	112000		500		ug/L		10/26/22 10:40	10/27/22 15:58	1
Iron	3160		100		ug/L		10/26/22 10:40	10/27/22 15:58	1

Recoverable							
Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
U	5.00	- 10	ug/L	21 -21	10/26/22 10:40	10/27/22 14:44	1
	3.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	0.500		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	0.500		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
	0.500		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	2.50		ug/L		10/26/22 10:40	10/27/22 14:44	1
	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	2.50		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	1.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
U	20.0		ug/L		10/26/22 10:40	10/27/22 14:44	1
	Recoverable Qualifier U U U U U U U U U U U U U U	Qualifier         RL           U         5.00           3.00         5.00           U         0.500           U         5.00           U         5.00           U         5.00           U         2.50           U         2.50           U         2.50           U         1.00	Qualifier         RL         MDL           U         5.00         3.00           5.00         5.00         5.00           U         0.500         5.00           U         5.00         5.00           U         2.50         5.00           U         2.50         5.00           U         1.00         5.00	Qualifier         RL         MDL         Unit           U         5.00         ug/L           3.00         ug/L           5.00         ug/L           U         0.500         ug/L           U         5.00         ug/L           U         5.00         ug/L           U         5.00         ug/L           U         2.50         ug/L           U         2.50         ug/L           U         2.50         ug/L           U         1.00         ug/L	Qualifier         RL         MDL         Unit         D           U         5.00         ug/L         ug/L           5.00         ug/L         ug/L           U         0.500         ug/L           U         5.00         ug/L           U         5.00         ug/L           U         5.00         ug/L           U         2.50         ug/L           U         2.50         ug/L           U         2.50         ug/L           U         1.00         ug/L	Qualifier         RL         MDL         Unit         D         Prepared           U         5.00         ug/L         10/26/22 10:40           5.00         ug/L         10/26/22 10:40           U         0.500         ug/L         10/26/22 10:40           U         0.500         ug/L         10/26/22 10:40           U         5.00         ug/L         10/26/22 10:40           U         5.00         ug/L         10/26/22 10:40           U         5.00         ug/L         10/26/22 10:40           U         2.50         ug/L         10/26/22 10:40	Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           U         5.00         ug/L         10/26/22 10:40         10/27/22 14:44           3.00         ug/L         10/26/22 10:40         10/27/22 14:44           5.00         ug/L         10/26/22 10:40         10/27/22 14:44           U         0.500         ug/L         10/26/22 10:40         10/27/22 14:44           U         5.00         ug/L         10/26/22 10:40         10/27/22 14:44           U         2.50         ug/L         10/26/22 10:40         10/27/22 14:44

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Lab Sample ID: 680-223949-5

Matrix: Water

Job ID: 680-223949-1

Client Sample ID: AF47328

Date Collected: 10/20/22 13:23 Date Received: 10/25/22 10:30

Method: SW846 6010D -	Metals (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	121000		500		ug/L		10/26/22 10:40	10/27/22 16:07	1
Iron	3490		100		ug/L		10/26/22 10:40	10/27/22 16:07	1

11011	5450		100		ug/ L		10/20/22 10.10	10/21/22 10:01	
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	21 -21	10/26/22 10:40	10/27/22 14:47	1
Arsenic	69.5		3.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Barium	91.8		5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:47	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:47	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Cobalt	5.72		0.500		ug/L		10/26/22 10:40	10/27/22 14:47	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:47	1
Nickel	6.32		5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:47	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:47	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID: 680-223949-6

Matrix: Water

Client Sample ID: AF47323 Date Collected: 10/21/22 12:19

Date Received: 10/25/22 10:30

Method: SW846 6010D	- Metals (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	663000		500		ug/L		10/26/22 10:40	10/27/22 16:10	1
Iron	39100		100		ug/L		10/26/22 10:40	10/27/22 16:10	1

ii on	39100		100		ug/L		10/20/22 10.40	10/2//22 10:10	3
Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Arsenic	3.00	U	3.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Barium	50.6		5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:49	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:49	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Cobalt	7.08		0.500		ug/L		10/26/22 10:40	10/27/22 14:49	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:49	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Selenium	3.68		2.50		ug/L		10/26/22 10:40	10/27/22 14:49	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:49	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID: 680-223949-7

Matrix: Water

Client Sample ID: AF47334 Date Collected: 10/21/22 12:24

Date Received: 10/25/22 10:30

letals (ICP) - Total Red	coverable							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
616000		500		ug/L		10/26/22 10:40	10/27/22 16:13	1
36500		100		ug/L		10/26/22 10:40	10/27/22 16:13	1
	Result 616000		Result 616000         Qualifier         RL           500         500	Result Qualifier RL MDL 616000 500	Result 616000         Qualifier         RL RL Storm         MIDL Unit ug/L	Result 616000         Qualifier         RL Store         MDL Unit ug/L         D	Result 616000         Qualifier         RL         MDL up/L         D         Prepared 10/26/22 10:40	Result 616000         Qualifier         RL         MDL ug/L         Unit ug/L         D prepared 10/26/22 10:40         Analyzed 10/27/22 16:13

	30300		100		ugr		10/20/22 10.10	10/21/22 10:10	
Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	2 -2	10/26/22 10:40	10/27/22 14:52	1
Arsenic	3.41		3.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Barium	46.7		5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:52	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:52	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Cobalt	6.83		0.500		ug/L		10/26/22 10:40	10/27/22 14:52	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:52	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Selenium	3.50		2.50		ug/L		10/26/22 10:40	10/27/22 14:52	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:52	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID: 680-223949-8

Matrix: Water

Date Collected: 10/21/22 10:47 Date Received: 10/25/22 10:30

Client Sample ID: AF47332

Method: SW846 60	10D - Metals (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	89300		500		ug/L		10/26/22 10:41	10/27/22 16:16	1
Iron	81800		100		ug/L		10/26/22 10:41	10/27/22 16:16	1
821					132				

iron	81800		100		ug/L		10/20/22 10.41	10/2//22 10:10	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		10/26/22 10:41	10/27/22 14:55	1
Arsenic	3.00	U	3.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Barium	257		5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Beryllium	1.27		0.500		ug/L		10/26/22 10:41	10/27/22 14:55	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:41	10/27/22 14:55	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Cobalt	19.7		0.500		ug/L		10/26/22 10:41	10/27/22 14:55	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Lead	3.55		2.50		ug/L		10/26/22 10:41	10/27/22 14:55	1
Nickel	7.63		5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Selenium	4.48		2.50		ug/L		10/26/22 10:41	10/27/22 14:55	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Zinc	24.8		20.0		ug/L		10/26/22 10:41	10/27/22 14:55	1

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Job ID: 680-223949-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-747083/1-A

Matrix: Water

Analysis Batch: 747484

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 747083

	IVID	140							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		10/26/22 10:40	10/27/22 15:34	1
Iron	100	U	100		ug/L		10/26/22 10:40	10/27/22 15:34	1

NAD NAD

Lab Sample ID: LCS 680-747083/2-A

Matrix: Water

Analysis Batch: 747484

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

Prep Batch: 747083

	Spike	LCS	LCS				%Rec	
Analyte	Added R	esult	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4679		ug/L		94	80 - 120	
İron	5000	5018		ug/L		100	80 - 120	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-747087/1-A

Matrix: Water

Analysis Batch: 747535

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 747087

								The second secon	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Arsenic	3.00	U	3.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Barium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:11	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:11	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Cobalt	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:11	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:11	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:11	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:11	1

Lab Sample ID: LCS 680-747087/2-A

Matrix: Water

Analysis Batch: 747535

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

Prep Batch: 747087

Analysis Balch. 141000							Prep Bate	11. 747007
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	50.0	53.19	( <del>.</del>	ug/L		106	80 - 120	
Arsenic	100	111.0		ug/L		111	80 - 120	
Barium	100	105.1		ug/L		105	80 - 120	
Beryllium	50.0	59.77		ug/L		120	80 - 120	
Cadmium	50.0	55.16		ug/L		110	80 - 120	
Chromium	100	110.2		ug/L		110	80 - 120	
Cobalt	50.0	54.56		ug/L		109	80 - 120	
Copper	100	113.9		ug/L		114	80 - 120	
Lead	505	546.7		ug/L		108	80 - 120	
Nickel	99.0	119.0		ug/L		120	80 - 120	
Selenium	100	110.4		ug/L		110	80 - 120	
Thallium	50.0	52.93		ug/L		106	80 - 120	

Eurofins Savannah

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10/28/2022

### **QC Sample Results**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-747087/2-A

Matrix: Water

Analysis Batch: 747535

Spike

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 747087

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 Qualifier Unit ug/L
 D %Rec Limits 80 - 120

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### **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

#### Metals

Prep Batch: 747083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	3005A	
680-223949-2	AF47329	Total Recoverable	Water	3005A	
680-223949-3	AF47327	Total Recoverable	Water	3005A	
680-223949-4	AF47331	Total Recoverable	Water	3005A	
680-223949-5	AF47328	Total Recoverable	Water	3005A	
680-223949-6	AF47323	Total Recoverable	Water	3005A	
680-223949-7	AF47334	Total Recoverable	Water	3005A	
680-223949-8	AF47332	Total Recoverable	Water	3005A	
MB 680-747083/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-747083/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 747087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	3005A	
680-223949-2	AF47329	Total Recoverable	Water	3005A	
680-223949-3	AF47327	Total Recoverable	Water	3005A	
680-223949-4	AF47331	Total Recoverable	Water	3005A	
680-223949-5	AF47328	Total Recoverable	Water	3005A	
680-223949-6	AF47323	Total Recoverable	Water	3005A	
680-223949-7	AF47334	Total Recoverable	Water	3005A	
680-223949-8	AF47332	Total Recoverable	Water	3005A	
MB 680-747087/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-747087/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 747484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	6010D	747083
680-223949-2	AF47329	Total Recoverable	Water	6010D	747083
680-223949-3	AF47327	Total Recoverable	Water	6010D	747083
680-223949-4	AF47331	Total Recoverable	Water	6010D	747083
680-223949-5	AF47328	Total Recoverable	Water	6010D	747083
680-223949-6	AF47323	Total Recoverable	Water	6010D	747083
680-223949-7	AF47334	Total Recoverable	Water	6010D	747083
680-223949-8	AF47332	Total Recoverable	Water	6010D	747083
MB 680-747083/1-A	Method Blank	Total Recoverable	Water	6010D	747083
LCS 680-747083/2-A	Lab Control Sample	Total Recoverable	Water	6010D	747083

Analysis Batch: 747535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	6020B	747087
680-223949-2	AF47329	Total Recoverable	Water	6020B	747087
680-223949-3	AF47327	Total Recoverable	Water	6020B	747087
680-223949-4	AF47331	Total Recoverable	Water	6020B	747087
680-223949-5	AF47328	Total Recoverable	Water	6020B	747087
680-223949-6	AF47323	Total Recoverable	Water	6020B	747087
680-223949-7	AF47334	Total Recoverable	Water	6020B	747087
680-223949-8	AF47332	Total Recoverable	Water	6020B	747087
MB 680-747087/1-A	Method Blank	Total Recoverable	Water	6020B	747087
LCS 680-747087/2-A	Lab Control Sample	Total Recoverable	Water	6020B	747087

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Job ID: 680-223949-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Client Sample ID: AF47330

Date Collected: 10/20/22 10:47 Date Received: 10/25/22 10:30 Lab Sample ID: 680-223949-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		*-	747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:49
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:30

Client Sample ID: AF47329

Date Collected: 10/20/22 12:20

Date Received: 10/25/22 10:30

Lah	Sam	nle I	D.	680-223949-2
			Day of	OUD ELVOTO E

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	ВЈВ	EET SAV	10/27/22 15:52
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:33

Client Sample ID: AF47327

Date Collected: 10/20/22 13:18

Date Received: 10/25/22 10:30

Lab Sample ID	: 680-223949-3
---------------	----------------

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:55
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:36

Client Sample ID: AF47331

Date Collected: 10/20/22 15:39

Date Received: 10/25/22 10:30

ah	Samn	IA ID:	680-223949-4
LUN	Janio	ICID.	000-220040-4

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:58
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:44

Client Sample ID: AF47328

Date Collected: 10/20/22 13:23

Date Received: 10/25/22 10:30

Lab	Sample	ID:	680-223949-5
mm ent ner	-	II IIII	

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:07
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:47

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10/28/2022

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID: 680-223949-6

Matrix: Water

Client Sample ID: AF47323

Date Collected: 10/21/22 12:19 Date Received: 10/25/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:10
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:49

Client Sample ID: AF47334

Lab Sample ID: 680-223949-7 Date Collected: 10/21/22 12:24

Matrix: Water

Date Received: 10/25/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		*_	747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:13
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:52

Client Sample ID: AF47332

Lab Sample ID: 680-223949-8 Date Collected: 10/21/22 10:47

Matrix: Water

Date Received: 10/25/22 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:41
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:16
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:41
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:55

**Laboratory References:** 

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

Eurofins Savannah

### **Chain of Custody**

santee cooper

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

Rerun request for any flagged QC Project/Task/Unit #: **Customer Email/Report Recipient:** Date Results Needed by: LINDA. WILLIAMS @santeecooper.com 125915 / JM02.09 GØ1 1 / 36500 Yes No **Analysis Group** Comments Labworks ID# Sample Location/ TOTAL METALS Preservative (see below) Matrix(see below) Collection Time Collection Date Method# BELOW Description (Internal use Sample Collector fotal # of container Reporting limit Grab (G) or Composite (C) only) Misc. sample info HIS-Any other notes WJK X GW 2 G 6010- ca, Fe AF47330 WAP-22 10/20/22 1047 6020 - Sb, AS, Ba, Be, Cd WLF-A2-2 1220 29 1318 Cr, Co, Cu, Pb, Ni, WLF-A2-1 27 1539 Se, TI, In WAP - 27 31 1323 WLF-A2-1 DUP 28 TTW 10/21/22 \* PLEASE SEE SHEET 1219 MG WAT-29 33 FOR RLS FOR SELECTED WAP-29 DUP 1224 METALS. 34 32 WAP-28 1047 Sample Receiving (Internal Use Only) Time Received by: Employee # Date Relinquished by: Employee# Date Time TEMP (°C): Initial: 10/25 (0:40 1500 Myoun 35594 10/24/22 Correct pH: Yes Received by: Employee # Date Time Time Relinguished by: **Employee#** Date Preservative Lot#: Time Received by: Employee # Time Relinquished by: Employee# Date Date/Time/Init for preservative: ☐ METALS (all) Oil **Nutrients** MISC. Gypsum Coal Flyash Z Cu Ø'Sb □ Ag □ TOC Trans. Oil Qual. BTEX ☐ Wallboard □ Ultimate □ Ammonia 2.Se **Ø**Fe %Moisture □ Napthalene D DOC Gypsum(all ☐ % Moisture □ THM/HAA Color □Sn below) Z As DΚ □ Ash ☐ TP/TPO4 ☐ % Carbon Acidity D VOC □ AIM □ NH3-N ☐ Sulfur ☐ Mineral □ Sr Dielectric Strength  $\Box$  B O Li □ Oil & Grease □ TOC □ BTUs Analysis  $\Box F$ IFT □ E. Coli ☐ Total metals ☑ Ba □Mg □ Ti Dissolved Gases D CI □ Volatile Matter ☐ Sieve □ Total Coliform ☐ Soluble Metals □ CHN □ % Moisture Used Oil ØT1 □ NO2 ☑ Be □ Mn ☐ Purity (CaSO4). □pH Other Tests: Flashpoint □ Br ☐ Dissolved As □ % Moisture □Мо  $\Box V$ Ø.Ca Metals in oil ☐ Dissolved Fe ☐ Sulfites ☐ XRF Scan U NO3 **NPDES** (As,Cd,Cr,Ni,Pb ☐ Rad 226 □ HGI □ Na 2/Zn Ø.Cd □ SO4 Hg 🗆 □ Oil & Grease ☐ Fineness ☐ Rad 228 □ Chlorides Ø Ni □Hg ☐ Particulate Matter ☑ Co □ PCB ∩ Particle Size □ CrVI D Solfor ☑ Cr Ø Pb



680-223949 Chain of Custody

Table of Reporting Limits for Groundwater Samples-- Metals Only

Odinples Metals Offig						
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	NOTE AND THE				
Potassium	mg/L					
Selenium	ug/L	50	5			
Sodium	mg/L		en en 10			
Thallium	ug/L	2	1			
Zinc	ug/L	5000				

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10/28/2022

### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-223949-1

Login Number: 223949 List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

orvator. Fadayao, 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.	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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### **Accreditation/Certification Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

#### **Laboratory: Eurofins Savannah**

The accreditations/certifications listed below are applicable to this report.

A	Authority	Program	Identification Number	<b>Expiration Date</b>
S	South Carolina	State	98001	06-30-22 *

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 $<sup>^{*}</sup>$  Accreditation/Certification renewal pending - accreditation/certification considered valid.

### PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

**ANALYTICAL REPORT** 

Generated 12/22/2022 7:23:03 PM

### JOB DESCRIPTION

125915/JM02.08.G01.1/36500

## **JOB NUMBER**

680-227330-1

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 12/22/2022 7:23:03 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/JM02.08.G01.1/36500

Job ID: 680-227330-1

Job ID: 680-227330-1

**Laboratory: Eurofins Savannah** 

Narrative

Job Narrative 680-227330-1

#### Receipt

The samples were received on 12/9/2022 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 15.1°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: 680-227330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-227330-1	AF50607	Water	12/06/22 10:22	12/09/22 10:00
680-227330-2	AF50606	Water	12/06/22 11:34	12/09/22 10:00
680-227330-3	AF50605	Water	12/06/22 13:25	12/09/22 10:00
680-227330-4	AF50604	Water	12/06/22 14:34	12/09/22 10:00
680-227330-5	AF50602	Water	12/07/22 10:07	12/09/22 10:00
680-227330-6	AF50603	Water	12/07/22 10:12	12/09/22 10:00
680-227330-7	AF50608	Water	12/07/22 13:42	12/09/22 10:00
680-227330-8	AF50609	Water	12/07/22 13:47	12/09/22 10:00
680-227330-9	AF50610	Water	12/07/22 15:03	12/09/22 10:00

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### **Method Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
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

### **Definitions/Glossary**

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

#### 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.
a	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"

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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Total Recoverable

Total Recoverable

Client Sample ID: AF50607 Lab Samp								ample ID:	ple ID: 680-227330-1	
	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Calcium	673000		500	-	ug/L	1	_	6010D	Total	
									Recoverable	
Iron	40600		100		ug/L	1		6010D	Total	
									Recoverable	
Barium	45.6		5.00		ug/L	1		6020B	Total	
									Recoverable	

7.32

3.58

Cobalt

Selenium

Client Sample ID: AF50606	Lab Sample ID: 680-227330-2
	***

0.500

2.50

ug/L

ug/L

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	81700	500	3F	ug/L	1		6010D	Total
								Recoverable
Iron	88800	100		ug/L	1		6010D	Total
								Recoverable
Barium	273	5.00		ug/L	1		6020B	Total
								Recoverable
Beryllium	1.99	0.500		ug/L	1		6020B	Total
								Recoverable
Cobalt	21.1	0.500		ug/L	1		6020B	Total
								Recoverable
Lead	3.70	2.50		ug/L	1		6020B	Total
								Recoverable
Nickel	8.37	5.00		ug/L	1		6020B	Total
								Recoverable
Selenium	4.99	2.50		ug/L	1		6020B	Total
								Recoverable

Client Sample ID: AF50605

### Lab Sample ID: 680-227330-3

6020B

6020B

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97300	<u> </u>	500	<u></u>	ug/L	1	45-48	6010D	Total
									Recoverable
Iron	83400		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	96.8		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	122		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	0.820		0.500		ug/L	1		6020B	Total
5==1									Recoverable

Client Sample ID: AF50604

### Lab Sample ID: 680-227330-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	184000	<del></del>	500		ug/L	1	W-5	6010D	Total
									Recoverable
Iron	5760		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	186		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	84.5		5.00		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/JM02.08.G01.1/36500

Client Sample ID: AF50602

Job ID: 680-227330-1

Lab Sample ID: 680-227330-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	108000	·	500		ug/L	1		6010D	Total
									Recoverable
Iron	1770		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	62.1		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	62.1		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	2.03		0.500		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF50603 Lab Sample ID: 680-227330-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	106000		500	-	ug/L			6010D	Total
									Recoverable
Iron	1670		100		ug/L	1		6010D	Total
									Recoverable
Arsenic	69.0		3.00		ug/L	1		6020B	Total
									Recoverable
Barium	67.5		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	2.17		0.500		ug/L	1		6020B	Total
									Recoverable

#### Client Sample ID: AF50608 Lab Sample ID: 680-227330-7

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	303000	500	H 3	ug/L	1		6010D	Total
								Recoverable
Iron	112000	100		ug/L	1		6010D	Total
								Recoverable
Arsenic	6.11	3.00		ug/L	1		6020B	Total
				310				Recoverable
Barium	24.8	5.00		ug/L	1		6020B	Total
								Recoverable
Beryllium	11.6	0.500		ug/L	1		6020B	Total
								Recoverable
Cadmium	2.95	0.500		ug/L	1		6020B	Total
								Recoverable
Cobalt	75.2	0.500		ug/L	1		6020B	Total
								Recoverable
Lead	47.3	2.50		ug/L	1		6020B	Total
								Recoverable
Nickel	36.1	5.00		ug/L	1		6020B	Total
								Recoverable
Selenium	55.8	2.50		ug/L	1		6020B	Total
								Recoverable
Zinc	55.0	20.0		ug/L	1		6020B	Total
								Recoverable

#### Client Sample ID: AF50609 Lab Sample ID: 680-227330-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	307000		500		ug/L			6010D	Total
									Recoverable
Iron	114000		100		ug/L	1		6010D	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

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### **Detection Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Lab Sample ID: 680-227330-9

6020B

Recoverable

### Client Sample ID: AF50609 (Continued)

### Lab Sample ID: 680-227330-8

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.23	3.00		ug/L		_	6020B	Total
								Recoverable
Barium	24.9	5.00		ug/L	1		6020B	Total
								Recoverable
Beryllium	14.7	0.500		ug/L	1		6020B	Total
								Recoverable
Cadmium	2.15	0.500		ug/L	1		6020B	Total
								Recoverable
Cobalt	78.6	0,500		ug/L	1		6020B	Total
								Recoverable
Lead	48.3	2.50		ug/L	1		6020B	Total
								Recoverable
Nickel	38.0	5.00		ug/L	1		6020B	Total
								Recoverable
Selenium	56.9	2.50		ug/L	1		6020B	Total
								Recoverable
Zinc	54.7	20.0		ug/L	1		6020B	Total
								Recoverable

### Client Sample ID: AF50610

Cobalt

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1620	500	W	ug/L	1	W-5	6010D	Total
								Recoverable
Iron	2260	100		ug/L	1		6010D	Total
								Recoverable
Barium	35.2	5.00		ug/L	1		6020B	Total
	.,							Recoverable
Beryllium	0.775	0.500		ug/L	1		6020B	Total
								Recoverable
Chromium	5.79	5.00		ug/L	1		6020B	Total
								Recoverable

0.500

ug/L

20.2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Method: SW846 7470A - Mercury (CVAA)

Analyte

Mercury

Mercury

Job ID: 680-227330-1

Client Sample ID: AF50607

Lab Sample ID: 680-227330-1

Matrix: Water

Date Collected: 12/06/22 10:22 Date Received: 12/09/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	673000		500		ug/L		12/12/22 14:06	12/13/22 14:08	1
Iron	40600		100		ug/L		12/12/22 14:06	12/13/22 14:08	1
Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable	<b>)</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Barium	45.6		5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:30	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:30	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Cobalt	7.32		0.500		ug/L		12/12/22 14:06	12/13/22 14:30	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:30	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Selenium	3.58		2.50		ug/L		12/12/22 14:06	12/13/22 14:30	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:30	1

RL

0.200

0.200

MDL Unit

ug/L

ug/L

Prepared

12/13/22 08:49

12/20/22 15:23

Analyzed

12/13/22 17:40

12/21/22 16:37

Dil Fac

Result Qualifier

0.200 U F1

0.200 U

Eurofins Savannah

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-227330-2

Matrix: Water

Job ID: 680-227330-1

Client Sample ID: AF50606 Date Collected: 12/06/22 11:34

Date Received: 12/09/22 10:00

Method: SW846 6010D - Metals	(ICP) - Total Red	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	81700		500		ug/L		12/12/22 14:06	12/13/22 14:11	1
Iron	88800		100		ug/L		12/12/22 14:06	12/13/22 14:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L	21 - 21	12/12/22 14:06	12/13/22 14:33	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Barium	273		5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Beryllium	1.99		0.500		ug/L		12/12/22 14:06	12/13/22 14:33	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:33	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Cobalt	21.1		0.500		ug/L		12/12/22 14:06	12/13/22 14:33	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Lead	3.70		2.50		ug/L		12/12/22 14:06	12/13/22 14:33	1
Nickel	8.37		5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Selenium	4.99		2.50		ug/L		12/12/22 14:06	12/13/22 14:33	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:33	1

Method: SW846 7470A - Merc	cury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:48	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF50605

Nickel

Selenium

Thallium

Zinc

Lab Sample ID: 680-227330-3

Job ID: 680-227330-1

Date Collected: 12/06/22 13:25 Date Received: 12/09/22 10:00

Matrix: Water

12/13/22 14:38

12/13/22 14:38

12/13/22 14:38

12/13/22 14:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97300		500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Iron	83400		100		ug/L		12/12/22 14:06	12/13/22 14:14	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		12/12/22 14:06	12/13/22 14:38	1
Arsenic	96.8		3.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Barium	122		5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:38	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:38	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Cobalt	0.820		0.500		ug/L		12/12/22 14:06	12/13/22 14:38	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:38	1

Method: SW846 7470A - Me	rcury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:50	1

5.00

2.50

1.00

20.0

ug/L

ug/L

ug/L

ug/L

12/12/22 14:06

12/12/22 14:06

12/12/22 14:06

12/12/22 14:06

5.00 U

2.50 U

1.00 U

20.0 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-227330-4

Matrix: Water

Job ID: 680-227330-1

Client Sample ID: AF50604

Date Collected: 12/06/22 14:34 Date Received: 12/09/22 10:00

Analyte

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	184000		500		ug/L		12/12/22 14:06	12/13/22 13:50	1
Ir <mark>on</mark>	5760		100		ug/L		12/12/22 14:06	12/13/22 13:50	1
Method: SW846 6020B -	Metals (ICP/MS) - Total	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Arsenic	186		3.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Barium	84.5		5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Cobalt	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:14	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:14	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:14	1

RL

0.200

MDL Unit

ug/L

Prepared

12/13/22 08:49

Analyzed

12/13/22 17:53

Result Qualifier

0.200 U

Dil Fac

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-227330-5

Job ID: 680-227330-1

Matrix: Water

Client Sample ID: AF50602 Date Collected: 12/07/22 10:07

Date Received: 12/09/22 10:00

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	108000	500		ug/L		12/12/22 14:06	12/13/22 13:59	1
Iron	1770	100		ug/L		12/12/22 14:06	12/13/22 13:59	1

Method: SW846 6020B -	Charles Annual Control of Control			B.405.1		_			200.00
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Arsenic	62.1		3.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Barium	62.1		5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:22	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:22	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Cobalt	2.03		0.500		ug/L		12/12/22 14:06	12/13/22 14:22	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:22	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:22	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:22	1

Method: SW846 7470A - M	lercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:55	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Mercury

Job ID: 680-227330-1

Lab Sample ID: 680-227330-6 Client Sample ID: AF50603

Date Collected: 12/07/22 10:12 Matrix: Water

Date Received: 12/09/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	106000		500		ug/L		12/12/22 14:06	12/13/22 14:02	1
Ir <mark>on</mark>	1670		100		ug/L		12/12/22 14:06	12/13/22 14:02	1
Method: SW846 6020B	- Metals (ICP/MS) - Total	Recoverable	<b>)</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Arsenic	69.0		3.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Barium	67.5		5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:24	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:24	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Cobalt	2.17		0.500		ug/L		12/12/22 14:06	12/13/22 14:24	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:24	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:24	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:24	1
Method: SW846 7470A	- Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.200

ug/L

12/13/22 08:49

12/13/22 17:58

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Lab Sample ID: 680-227330-7

Matrix: Water

Date Collected: 12/07/22 13:42 Date Received: 12/09/22 10:00

Client Sample ID: AF50608

IV	lethod: SW846 6010D - Metals (ICP) - Total R	ecovera	able						
A	nalyte Resu	lt Qualifi	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C	alcium 30300	0	500		ug/L		12/12/22 14:06	12/13/22 14:05	1
lr	on 11200	0	100		ug/L		12/12/22 14:06	12/13/22 14:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Arsenic	6.11		3.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Barium	24.8		5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Beryllium	11.6		0.500		ug/L		12/12/22 14:06	12/13/22 14:27	1
Cadmium	2.95		0.500		ug/L		12/12/22 14:06	12/13/22 14:27	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Cobalt	75.2		0.500		ug/L		12/12/22 14:06	12/13/22 14:27	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Lead	47.3		2.50		ug/L		12/12/22 14:06	12/13/22 14:27	1
Nickel	36.1		5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Selenium	55.8		2.50		ug/L		12/12/22 14:06	12/13/22 14:27	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Zinc	55.0		20.0		ug/L		12/12/22 14:06	12/13/22 14:27	1

Method: SW846 7470A - Me	ercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 18:05	1

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1/

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

12/13/22 08:49 12/13/22 18:08

Lab Sample ID: 680-227330-8

Matrix: Water

Job ID: 680-227330-1

Client	Samp	le ID:	AF50609
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Date Collected: 12/07/22 13:47 Date Received: 12/09/22 10:00

Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	307000		500		ug/L		12/12/22 14:06	12/13/22 14:17	1
Iron	114000		100		ug/L		12/12/22 14:06	12/13/22 14:17	1
Method: SW846 6020B -	- Metals (ICP/MS) - Total	Recoverable	<b>)</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Arsenic	9.23		3.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Barium	24.9		5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Beryllium	14.7		0.500		ug/L		12/12/22 14:06	12/13/22 14:41	1
Cadmium	2.15		0.500		ug/L		12/12/22 14:06	12/13/22 14:41	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Cobalt	78.6		0.500		ug/L		12/12/22 14:06	12/13/22 14:41	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Lead	48.3		2.50		ug/L		12/12/22 14:06	12/13/22 14:41	1
Nickel	38.0		5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Selenium	56.9		2.50		ug/L		12/12/22 14:06	12/13/22 14:41	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Zinc	54.7		20.0		ug/L		12/12/22 14:06	12/13/22 14:41	1
Method: SW846 7470A -	- Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.200

ug/L

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Lab Sample ID: 680-227330-9

Matrix: Water

Job ID: 680-227330-1

Client	Samp	le ID:	AF50	610

Date Collected: 12/07/22 15:03 Date Received: 12/09/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1620	-	500		ug/L		12/12/22 14:06	12/13/22 14:20	1
Iron	2260		100		ug/L		12/12/22 14:06	12/13/22 14:20	1
Method: SW846 6020B - M	letals (ICP/MS) - Total	Recoverable	<b>)</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Barium	35.2		5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Beryllium	0.775		0.500		ug/L		12/12/22 14:06	12/13/22 14:44	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:44	1
Chromium	5.79		5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Cobalt	20.2		0.500		ug/L		12/12/22 14:06	12/13/22 14:44	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:44	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:44	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:44	1
Method: SW846 7470A - M	ercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 18:11	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-754738/1-A

Matrix: Water

Analysis Batch: 755000

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 754738

	IVID	1480							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		12/12/22 14:06	12/13/22 13:35	1
Iron	100	U	100		ug/L		12/12/22 14:06	12/13/22 13:35	1

NAD NAD

Lab Sample ID: LCS 680-754738/2-A

Matrix: Water

Analysis Batch: 755000

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

Prep Batch: 754738

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	5000	4611		ug/L		92	80 - 120	
Iron	5000	4674		ug/L		93	80 - 120	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-754740/1-A

Matrix: Water

Analysis Batch: 755052

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 754740

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Barium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 13:49	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 13:49	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Cobalt	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 13:49	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 13:49	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 13:49	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 13:49	1

Lab Sample ID: LCS 680-754740/2-A

Matrix: Water

Analysis Batch: 755052

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

Prep Batch: 754740

Analysis Balch. 100002							Prep Ball	m. 754740
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	50.0	58.15	( <del>.</del>	ug/L		116	80 - 120	
Arsenic	100	103.8		ug/L		104	80 - 120	
Barium	100	110.7		ug/L		111	80 - 120	
Beryllium	50.0	58.21		ug/L		116	80 - 120	
Cadmium	50.0	54.60		ug/L		109	80 - 120	
Chromium	100	116.2		ug/L		116	80 - 120	
Cobalt	50.0	57.53		ug/L		115	80 - 120	
Copper	100	117.1		ug/L		117	80 - 120	
Lead	505	547.5		ug/L		109	80 - 120	
Nickel	99.0	116.8		ug/L		118	80 - 120	
Selenium	150	154.6		ug/L		103	80 - 120	
Thallium	50.0	52.85		ug/L		106	80 - 120	

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12/22/2022

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

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80 - 120

Client Sample ID: AF50607

Prep Type: Total/NA

### Method: 6020B - Metals (ICP/MS) (Continued)

	Lab Sample ID: LCS 680-754740/2-A				Client	Sample	ID: Lab Control Sample
	Matrix: Water					Prep	Type: Total Recoverable
	Analysis Batch: 755052						Prep Batch: 754740
	Spike	LCS	LCS				%Rec
l	Analyte	Pecult	Qualifier	Unit	n	% Dec	Limite

112.1

ug/L

100

Method:	7/170A -	Mercury	(CVAA)

Lab Sample ID: 680-227330-1 MS

Matrix: Water

Zinc

Lab Sample ID: MB 680-754829/12-A	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 755259	Prep Batch: 754829
MB MB	

	9.000000	500 N - 30							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:35	1
Lab Sample ID: LCS 680-754829/13-A						C	lient Sample II	D: Lab Control	Sample

Lab Sample ID: LCS 680-754829/13-A					Client	Sample	ID: Lab Co	ontrol Sample
Matrix: Water						Prep T	ype: Total/NA	
Analysis Batch: 755259							Prep E	Batch: 754829
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	2.50	2.502	<del>(2</del>	ug/L		100	80 - 120	: <del></del>

Analysis Batch: 75525	9								Prep Ba	itch: 754829
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.200	11 E1	1.00	0.3308	E1	ua/l		33	90 120	

Mercury	0.200	U F1	1.00	0.3308	F1	ug/L	33	80 - 120
Lab Sample ID: 680-227330-1 MS							C	lient Sample ID: AF50607
Matrix: Water								Prep Type: Total/NA

Analysis Batch: 755260									Prep Bato	ch: 754829
•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.200	II F1	1.00	0.3600	F1	uall		37	80 120	

Lab Sample ID: 680-227330-1 MSD	Client Sample ID: AF50607
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 755259										Prep	Batch: 7	54829
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Mercury	0.200	U F1	1.00	0.3280	F1	ug/L		33	80 - 120	1	20

Lab Sample ID: 680-227330-1 MSD	ab Sample ID: 680-227330-1 MSD									Client Sample ID: AF50607					
Matrix: Water	Matrix: Water								Prep Type: Total/NA						
Analysis Batch: 755260									Prep E	3atch: 7	54829				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Mercury	0.200	U F1	1.00	0.3991	F1	ug/L	20 20-20	40	80 - 120	8	20				

### QC Sample Results

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Prep Type: Total/NA

Prep Batch: 756169

Prep Type: Total/NA

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

Lab Sample ID: MB 680-756169/1-A Client Sample ID: Method Blank

Matrix: Water

Analyte

Analysis Batch: 756421

MB MB Result Qualifier MDL Unit Analyzed Dil Fac RL Prepared

Mercury 0.200 U 0.200 ug/L 12/20/22 15:23 12/21/22 13:32 Lab Sample ID: LCS 680-756169/2-A Client Sample ID: Lab Control Sample

Matrix: Water Analysis Batch: 756421

Prep Batch: 756169 Spike LCS LCS %Rec

Added Result Qualifier Limits Analyte Unit D %Rec 80 - 120 Mercury 2.50 2.348 ug/L 94

### **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

#### Metals

Prep Batch: 754738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-227330-1	AF50607	Total Recoverable	Water	3005A	
680-227330-2	AF50606	Total Recoverable	Water	3005A	
680-227330-3	AF50605	Total Recoverable	Water	3005A	
680-227330-4	AF50604	Total Recoverable	Water	3005A	
680-227330-5	AF50602	Total Recoverable	Water	3005A	
680-227330-6	AF50603	Total Recoverable	Water	3005A	
680-227330-7	AF50608	Total Recoverable	Water	3005A	
680-227330-8	AF50609	Total Recoverable	Water	3005A	
680-227330-9	AF50610	Total Recoverable	Water	3005A	
MB 680-754738/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-754738/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 754740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	3005A	
680-227330-2	AF50606	Total Recoverable	Water	3005A	
680-227330-3	AF50605	Total Recoverable	Water	3005A	
680-227330-4	AF50604	Total Recoverable	Water	3005A	
680-227330-5	AF50602	Total Recoverable	Water	3005A	
680-227330-6	AF50603	Total Recoverable	Water	3005A	
680-227330-7	AF50608	Total Recoverable	Water	3005A	
680-227330-8	AF50609	Total Recoverable	Water	3005A	
680-227330-9	AF50610	Total Recoverable	Water	3005A	
MB 680-754740/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-754740/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 754829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	
680-227330-2	AF50606	Total/NA	Water	7470A	
680-227330-3	AF50605	Total/NA	Water	7470A	
680-227330-4	AF50604	Total/NA	Water	7470A	
680-227330-5	AF50602	Total/NA	Water	7470A	
680-227330-6	AF50603	Total/NA	Water	7470A	
680-227330-7	AF50608	Total/NA	Water	7470A	
680-227330-8	AF50609	Total/NA	Water	7470A	
680-227330-9	AF50610	Total/NA	Water	7470A	
MB 680-754829/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-754829/13-A	Lab Control Sample	Total/NA	Water	7470A	
680-227330-1 MS	AF50607	Total/NA	Water	7470A	
680-227330-1 MSD	AF50607	Total/NA	Water	7470A	

Analysis Batch: 755000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	6010D	754738
680-227330-2	AF50606	Total Recoverable	Water	6010D	754738
680-227330-3	AF50605	Total Recoverable	Water	6010D	754738
680-227330-4	AF50604	Total Recoverable	Water	6010D	754738
680-227330-5	AF50602	Total Recoverable	Water	6010D	754738
680-227330-6	AF50603	Total Recoverable	Water	6010D	754738
680-227330-7	AF50608	Total Recoverable	Water	6010D	754738

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### **QC Association Summary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

#### **Metals (Continued)**

Analysis	Batch:	755000	(Continued)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-8	AF50609	Total Recoverable	Water	6010D	754738
680-227330-9	AF50610	Total Recoverable	Water	6010D	754738
MB 680-754738/1-A	Method Blank	Total Recoverable	Water	6010D	754738
LCS 680-754738/2-A	Lab Control Sample	Total Recoverable	Water	6010D	754738

#### Analysis Batch: 755052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	6020B	754740
680-227330-2	AF50606	Total Recoverable	Water	6020B	754740
680-227330-3	AF50605	Total Recoverable	Water	6020B	754740
680-227330-4	AF50604	Total Recoverable	Water	6020B	754740
680-227330-5	AF50602	Total Recoverable	Water	6020B	754740
680-227330-6	AF50603	Total Recoverable	Water	6020B	754740
680-227330-7	AF50608	Total Recoverable	Water	6020B	754740
680-227330-8	AF50609	Total Recoverable	Water	6020B	754740
680-227330-9	AF50610	Total Recoverable	Water	6020B	754740
MB 680-754740/1-A	Method Blank	Total Recoverable	Water	6020B	754740
LCS 680-754740/2-A	Lab Control Sample	Total Recoverable	Water	6020B	754740

#### Analysis Batch: 755259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	754829
680-227330-2	AF50606	Total/NA	Water	7470A	754829
680-227330-3	AF50605	Total/NA	Water	7470A	754829
680-227330-4	AF50604	Total/NA	Water	7470A	754829
680-227330-5	AF50602	Total/NA	Water	7470A	754829
680-227330-6	AF50603	Total/NA	Water	7470A	754829
680-227330-7	AF50608	Total/NA	Water	7470A	754829
680-227330-8	AF50609	Total/NA	Water	7470A	754829
680-227330-9	AF50610	Total/NA	Water	7470A	754829
MB 680-754829/12-A	Method Blank	Total/NA	Water	7470A	754829
LCS 680-754829/13-A	Lab Control Sample	Total/NA	Water	7470A	754829
680-227330-1 MS	AF50607	Total/NA	Water	7470A	754829
680-227330-1 MSD	AF50607	Total/NA	Water	7470A	754829

#### Analysis Batch: 755260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1 MS	AF50607	Total/NA	Water	7470A	754829
680-227330-1 MSD	AF50607	Total/NA	Water	7470A	754829

#### Prep Batch: 756169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	20 00
MB 680-756169/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-756169/2-A	Lab Control Sample	Total/NA	Water	7470A	

#### Analysis Batch: 756421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	756169
MB 680-756169/1-A	Method Blank	Total/NA	Water	7470A	756169
LCS 680-756169/2-A	Lab Control Sample	Total/NA	Water	7470A	756169

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Job ID: 680-227330-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF50607

Date Collected: 12/06/22 10:22 Date Received: 12/09/22 10:00 Lab Sample ID: 680-227330-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:08
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:30
Total/NA	Prep	7470A			756169	BCB	EET SAV	12/20/22 15:23
Total/NA	Analysis	7470A		1	756421	BCB	EET SAV	12/21/22 16:37
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:40

Client Sample ID: AF50606

Lab Sample ID: 680-227330-2

Matrix: Water

Matrix: Water

Date Collected: 12/06/22 11:34 Date Received: 12/09/22 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	79-72	37 25	754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:11
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:33
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:48

Client Sample ID: AF50605

Date Collected: 12/06/22 13:25

Date Received: 12/09/22 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		<del>-</del>	754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:14
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:38
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:50

Client Sample ID: AF50604

Date Collected: 12/06/22 14:34

Date Received: 12/09/22 10:00

Lab	Sample	ID:	680-227330-4
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Lab Sample ID: 680-227330-3

Matrix: Water

=:	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A		= <del>- 2</del> a	754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	ВЈВ	EET SAV	12/13/22 13:50
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:14
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:53

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Job ID: 680-227330-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Client Sample ID: AF50602

Date Collected: 12/07/22 10:07 Date Received: 12/09/22 10:00 Lab Sample ID: 680-227330-5

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 13:59
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:22
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:55

Client Sample ID: AF50603

Date Collected: 12/07/22 10:12

Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-6

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:02
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:24
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:58

Client Sample ID: AF50608

Date Collected: 12/07/22 13:42

Date Received: 12/09/22 10:00

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:05
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:27
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 18:05

Client Sample ID: AF50609

Date Collected: 12/07/22 13:47

Date Received: 12/09/22 10:00

Lab Sample II	0: 680-227330-8
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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	20 25	77 87	754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:17
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:41
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 18:08

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12/22/2022

#### **Lab Chronicle**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Lab Sample ID: 680-227330-9

Matrix: Water

Client Sample ID: AF50610

Date Collected: 12/07/22 15:03 Date Received: 12/09/22 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:20
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:44
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 18:11

#### Laboratory References:

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

### **Chain of Custody**



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

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LINDA WILLIAMS @santeecooper.com 125915 / JMOZ.09. GOI.1/ 36500 Yes No Analysis Group Labworks ID# Sample Location/ Comments METALS Preservative (see below) Matrix(see below) (Internal use Description **Collection Date** Collection Time (Glass Method # Sample Collector Total # of contain Grab (G) or Composite (C) only) • Reporting limit Bottle type: ( G/Plastic-P) . Misc. sample info TOTAL -SEE Any other notes 6010 6020 NUK 12/6/22 21 G GW 2 X WAP-29 1022 AF50607 AS Or OU Cq Ba Pb NI Fe WAP 28 1134 Be Sh to cd se CO TI WAP-27 05 1325 WLF-A2-2 Hq-747D 1434 04 WLF-AZ-1 12/1/22 1007 AF 50602 \* SEE SHEET FOR RLS. 03 WLF- AZ-1 DUP 10/2 CGYP-7 08 1342 CGYP-7 DUP 09 1347 10 CCMAP-8 1503 Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee# Date Time TEMP (°C):\_ Initial: P:UP 2/9 14/8/22 1500 RPF 891Droun 35594 Correct pH: Yes Relinquished by: Employee# Date Time Received by: Employee # Date Time 15:1/15. Preservative Lot#: Relinquished by: Employee# Date Time Received by: Date Time Employee # Date/Time/Init for preservative: ☐ METALS (all ) Nutrients MISC. <u>Gypsum</u> Coal Flyash ØSb D/Cu D Ag □ TOC □ BTEX □ Wallboard Trans. Oll Qual. ☐ Ultimate □ Ammonia '⊿'Fe O Al Ø Se DOC □ Napthalene Gypsum(all %Moisture ☐ % Moisture O LOI Ø As  $\square K$ □ Sn □ THM/HAA Color below) □ TP/TPO4 □ Ash □ % Carbon □ VOC □ AIM Acidity □ NH3-N ☐ Sulfur OBO Li O Sr ☐ Mineral □ Oil & Grease DTOC Dielectric Strength OF O BTUs Analysis DE. Coli 11.7 Ø Ba U Ti ☐ Total metals □ Mg D CI ☐ Volatile Matter ☐ Total Coliform D Sieve Dissolved Gases ☐ Soluble Metals D'TI [2′Be □ Mn FLNO2 □ CHN Used Oil □pH ☐ % Moisture ☐ Purity (CaSO4) □ Br ☐ Dissolved As Other Tests: Flashpoint □ % Moisture ☑ Ca □Мо ΟV ☐ Dissolved Fe □ NO3 D XRF Scan Metals in oil (As,Cd,Cr,Ni,Pb () Sulfites **NPDES** Ø Cd □ Na Ø Zn ☐ Rad 226 **D SO4** □pH D HGL Oil & Grease Hg) ☐ Rad 228 ☐ Chlorides D Fineness Ø Co Ø Ni Ø Hg O PCB ☐ Particulate Matter ☐ Particle Size Ø Pb Ø Cr □ CrVI OFER □ Sulfur

680-227330 Chain of Custody

#### **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-227330-1

Login Number: 227330 List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

oreator. Fadayao, Abigan		
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: 680-227330-1

#### **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

Field Data Sheets
ote: color coding is to assist with stabilization of the field parameters prior to sample collection)

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-28	23.03	11	8-18	12/6/2022	1144	21.33

Drawdown: 11.12 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1116	20.73	4.56	137	16.1	1.5	1.52
1121	20.52	4.39	218	15.4	0.6	0.61
1126	20.42	4.36	228	15.3	0.9	0.45
1131	20.37	4.37	228	15.3	0.8	0.4
1136	20.35	4.4	221	15.4	0.6	0.35
1141	20.32	4.42	219	15.4	0.7	0.37
1144	20.28	4.42	219	15.4	0.6	0.36
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	2					

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228

Cl, F, SO4, TDS

Comments/Conditions:

used water level indicator with the weight water level indicator died before taking drawdown Samples were collected by Justin Kirk and Marvin Lewis

### Winyah Generating Station Area 2 Class 3 Landfill Groundwater Monitoring Wells

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-28	23.03	11.21	8-18	10/21/2022	1047	21.14

Drawdown: depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1016	23.58	4.19	147	1570	17.3	2.85
1021	23.47	4.32	138	1470	28.4	1.61
1026	23.33	4.6	128	1470	12.5	1.44
1031	23.41	4.76	122	1490	2.6	1.13
1036	23.55	4.85	119	1500	1.4	1.36
1041	23.78	4.9	117	1510	1.7	0.98
1044	23.78	4.93	116	1510	0.9	0.94
1047	23.83	4.96	115	1510	0.9	0.99
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CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

used water level indicator with the weight water level indicator died before taking drawdown Samples were collected by Justin Kirk and

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)		_	Depth
WAP - 13	21.97	7.05	8- 18	7/18/2022	1312	21.62

Drawdown: 8.04 depth to GW (ft)

Time	Temp round 1	pH round 1	Eh ORP	Spec Cond round 1	Turbidity	Dissolved Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1235	27.55	6.29	-45	1430	18.7	1.25
1240	27.15	6.23	-72	1660	17.4	0.56
1245	26.86	6.3	-84	2180	18.3	0.43
1250	26.68	6.31	-85	2440	24.6	0.39
1255	26.64	6.32	-85	2490	23.2	0.36
1300	26.14	6.33	-86	2600	23	0.35
1303	26.02	6.35	-86	2710	22.9	0.35
1306	26.31	6.36	-87	2810	22.9	0.35
1309	26.44	6.37	-87	2790	22.7	0.33
1312	26.37	6.38	-86	2820	22.4	0.33
					P	

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 12	30.84	10.45	9- 19	7/6/2022	1406	21.79

Drawdown: 10.76 depth to GW (ft)

Time	Temp round 1	pH round 1	Eh ORP	Spec Cond round 1	Turbidity	Dissolved Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1338	30.13	4.86	49	672	6.4	0.65
1343	29.49	4.59	104	697	6.7	0.38
1348	28.95	4.54	97	777	6.9	0.34
1353	28.81	4.53	92	827	5.8	0.33
1358	28.81	4.52	86	875	5.3	0.34
1403	28.78	4.53	80	892	4.4	0.33
1406	28.79	4.52	78	906	4	0.31
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Comments/Conditions:

DUP at 1411

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)	2. <b>●</b> S		Depth
WAP - 3	19.43	7.83	4- 24	7/18/2022	1201	24.91

Drawdown: 8.17 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1133	25.12	5.83	-5	1040	23.8	1.11
1138	25.26	5.76	8	1150	15.1	0.65
1143	25.55	5.83	8	1200	14	0.57
1148	25.41	5.92	2	1280	16	0.49
1153	25.38	5.98	-3	1330	14.6	0.45
1158	25.44	6.04	-8	1360	15.1	0.43
1201	25.3	6.05	-9	1380	15.3	0.42
		Ä				

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 2	23.69	10.42	4- 24	7/6/2022	1251	26.82

Drawdown: 10.59 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1217	29.85	6.53	-27	2000	56.3	1.24
1222	28.31	6.5	-71	2080	35.2	0.37
1227	27.61	6.47	-70	2080	41.8	0.32
1232	26.92	6.44	-67	2120	45.2	0.3
1237	26.91	6.43	-64	2130	35.8	0.3
1242	26.7	6.44	-64	2160	33.4	0.3
1245	26.6	6.44	-62	2190	27.7	0.3
1248	26.47	6.45	-61	2220	30.3	0.3
1251	26.48	6.45	-67	2250	32.5	0.29
			D.			

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW - 1	31.97	9.99	7- 17	7/6/2022	1023	19.78

Drawdown: 10.12 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
958	22.89	4	260	94	9.1	5.76
1003	23.51	4.36	293	80	7.6	5.45
1008	23.78	4.33	306	80	6.5	5.06
1013	23.96	4.32	316	80	6.3	4.93
1018	24.01	4.31	322	81	5.6	4.85
1023	23.95	4.31	326	80	1.4	4.79
		9	ù			

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 1	29.44	7.66	4- 24	7/6/2022	1137	25.16

Drawdown: 7.74 depth to GW (ft)

Time	Temp	рН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1103	24.07	4.67	142	88	0	1.28
1108	26.23	4.73	70	87	1.3	0.66
1113	25.92	4.74	53	86	6.9	0.56
1118	27.55	4.63	49	97	6.6	0.5
1123	26.19	4.56	54	114	2.3	0.42
1128	26.4	4.56	48	114	3	0.41
1131	27.21	4.57	46	111	4.6	0.35
1134	27.53	4.58	43	110	3.1	0.33
1137	27.62	4.59	41	109	3.8	0.32
				4		

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 13	21.97	6.61	8- 18	3/1/2022	1301	21.65

Drawdown: 7.88 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1241	21.33	6.29	-29	2840	15	1.18
1246	20.75	6.36	-80	2920	4.6	0.45
1251	21.13	6.38	-83	3180	3.2	0.38
1256	21.09	6.39	-86	3210	2.1	0.35
1301	20.91	6.39	-88	3220	4	0.33
					5	

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 12	30.84	9.77	9- 19	3/1/2022	1149	21.81

Drawdown: 10.07 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1048	19.43	4.6	234	260	0.4	1.6
1053	19.85	4.64	288	278	9.8	0.74
1058	20	4.64	282	296	9.1	0.65
1103	20.15	4.62	275	310	4.8	0.58
1108	20.39	4.6	241	391	6.2	0.51
1113	20.55	4.58	216	465	3.9	0.47
1116	20.72	4.57	189	561	2.9	0.44
1119	20.88	4.55	176	576	2.3	0.44
1122	21.01	4.55	167	612	2.5	0.41
1125	21.12	4.53	160	634	2.6	0.4
1128	21.24	4.56	152	671	2.7	0.39
1131	21.37	4.55	146	694	2.4	0.38
1134	21.56	4.56	142	740	1.5	0.39
1137	21.9	4.59	140	716	1.3	0.38
1140	22.05	4.57	140	718	2.4	0.37
1143	22.28	4.57	137	743	2.5	0.36
1146	22.43	4.58	134	754	2.9	0.36
1149	22.66	4.58	130	764	2.9	0.35

Comments/Conditions:

DUP at 1154

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)	<b>24</b> 8		Depth
WAP - 3	19.43	7.06	4- 24	2/21/2022	1205	24.94

Drawdown: 7.46 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1140	29.5	7.33	-27	890	201	3.92
1145	27.83	5.97	-15	1080	321	0.34
1150	23.39	5.92	-2	1150	113	0.67
1155	22.07	5.87	<b>=1</b> .	1250	79.7	0.39
1200	22.58	5.88	-5	1270	72.8	0.36
1205	22.43	5.89	-5	1280	72.8	0.34
					0	
		*				

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 2	23.69	9.63	4- 24	2/21/2022	1042	26.85

Drawdown: 10.02 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1005	20.75	6.55	-33	2710	99.8	0.91
1010	21.23	6.62	-72	2080	35.6	0.73
1015	21.55	6.63	-77	2030	25.1	0.63
1020	21.93	6.63	-78	2050	28.3	0.57
1025	22.48	6.63	-79	1970	29.2	0.51
1030	22.61	6.63	-78	2030	26.7	0.48
1033	22.69	6.63	-78	2000	26.8	0.45
1036	22.76	6.63	-77	2070	31.1	0.43
1039	23.08	6.64	-77	2030	32.1	0.42
1042	22.77	6.64	-77	2020	30.8	0.42

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW - 1	31.97	10.42	7- 17	2/15/2022	1124	19.82

Drawdown: 10.55 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1050	18.84	4.46	269	71	63	7.92
1055	18.2	4.2	325	65	54.5	7.86
1100	17.56	4.18	338	65	48.9	7.88
1105	17.89	4.17	347	64	43.2	7.7
1110	17.91	4.13	351	64	30.1	7.66
1115	17.93	4.14	372	64	20.8	7.56
1118	17.92	4.14	377	64	14.7	7.54
1121	17.91	4.15	382	64	9.5	7.45
1124	18.06	4.16	385	64	5.8	7.34
		ū				
		9	D.			

Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP - 1	29.44	6.79	4- 24	2/15/2022	1234	25.19

Drawdown: 6.86 depth to GW (ft)

Time	Temp round 1	pH round 1	Eh ORP	Spec Cond round 1	Turbidity	Dissolved
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	Oxygen (ppm)
1203	19.48	4.6	117	83	0	1.3
1208	19.88	4.52	49	81	8.5	0.49
1213	20.22	4.54	41	82	7.9	0.41
1218	20.45	4.57	34	81	9.1	0.36
1223	20.55	4.58	33	81	4	0.32
1228	20.88	4.58	29	81	0	0.37
1231	20.78	4.6	35	81	0	0.35
1234	20.92	4.58	35	81	0	0.34

Comments/Conditions:

Appendix C – Well Installation Record

### **Water Well Record Bureau of Water**

PROMOTE PROTECT PROSPER		2600 Bu	Il Street, Columbia, SC 29201-1708; (803) 898-4300			
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER:			
Name: SANTEE COOPER						
(last)	(firs	t)	8. USE:			
Address: ONE RIVERWOOD DRIV	E .		☐ Residential ☐ Public Supply ☐ Process			
City: MONCKS CORNER State: S	C Zip: 29	9461	☐ Irrigation       ☐ Air Conditioning       ☐ Emergency         ☐ Test Well       ☑ Monitor Well       ☐ Replacement			
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/13/22			
2. LOCATION OF WELL: SC	COUNTY: GEO	RGETOWN	18.0ft. Date Completed: 09/13/22			
Name: WINYAH GENERATING			10. CASING: Threaded Welded			
Street Address: 661 STEAM PL			Diam.: 2 INCH Height: Above Below □			
City: GEORGETOWN	<sup>Zip:</sup> 29440		Type:         ☑         PVC         ☐         Galvanized         Surface         2.5         ft.           ☐         Steel         ☐         Other         Weight         —         Ib./ft.			
L-4it-1 220 401 52 570 Lit-	d 700 241 22	4.011	$\frac{2.0}{}$ in. to $\frac{8.0}{}$ ft. depth Drive Shoe? $\square$ Yes $\square$ No			
Latitude: 33° 19' 53.57" Longitu	de: /9° 21. 33	.16"	in. to ft. depth			
3. PUBLIC SYSTEM NAME:	PUBLIC SYSTE	VI NUMBER:	11. SCREEN:			
WAP-28			Type: SCH 40 PVC Diam.: 2 INCH			
4. ABANDONMENT: Yes	V No		Slot/Gauge:010 Length:10.0 FEET			
			Set Between: 8.0 ft. and 18.0 ft. NOTE: MULTIPLE SCREENS ft. USE SECOND SHEET			
Grouted Depth: from	_ ft. to	ft.	Sieve Analysis  Yes (please enclose)  No			
	*Thickness		12. STATIC WATER LEVEL 10.0 ft. below land surface after 24 hours			
Formation Description	of	Bottom of	13. PUMPING LEVEL Below Land Surface.			
	Stratum	Stratum	ft. after hrs. Pumping G.P.M.			
TOPSOIL	1.0	1.0	Pumping Test: ☐ Yes (please enclose) ☐ No			
BROWN SILTY CLAY	0.0	10.0	Yield:			
BROWN SILTY CLAY	9.0	10.0	14. WATER QUALITY			
GRAY SILTY SAND	8.0	18.0	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No			
	0.0	10.0	Please enclose lab results.			
			15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No			
	+		Installed from 6.0 ft. to 18.0 ft. Effective size 1.43 Uniformity Coefficient 1.30			
			16. WELL GROUTED? ☑ Yes 및 No ☑ Neat Cement 및 Bentonite   Bentonite/Cement 및 Other			
			Depth: From 0.0 ft. to 4.0 ft.			
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction			
			Type			
			Well Disinfected ☐ Yes ☐ No Type: Amount:			
			18. PUMP: Date installed: Not installed □			
			Mfr. Name: Model No.:			
			H.P Volts Length of drop pipe ft. Capacity gpm			
			TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal			
			19. WELL DRILLER: CARL CARPENTER CERT. NO.: 02317			
			Address: (Print)  176 COMMERCE BLVD  Level: A B C D (circle one)			
20			STATESVILLE, NC 28625			
*Indicate Water Bearing Zones			Telephone No.: 704-872-7686 Fax No.: 704-872-0248			
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
5. REMARKS:			my direction and this report is true to the best of my knowledge and belief.			
BENTONITE SEAL 4.0 - 6.0 FEET						
DENTONITE SEAL 4.0 - 0.0 FEET			Signed:			
			Signed: Date: U9/22/22			
6 TVDE: El Mud Batania El Laur		Bored	Manager of Charlest Day.			
6. TYPE: ☐ Mud Rotary ☐ Jette ☐ Dug ☐ Air F		Borea Driven	If D Level Driller, provide supervising driller's name:			
	ar AUGER	v. 60770				
	The second secon					