## 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CLASS 3 LANDFILL AREA 1 AND CLOSED UNIT 2 SLURRY POND WINYAH GENERATING STATION

by Santee Cooper Moncks Corner, South Carolina

January 31, 2023 Amended: March 2, 2023

Table	of Contents	Page
1.	Annual Groundwater Monitoring Report Summary	1
2.	40 CFR §257.90 Applicability	2
	2.1 40 CFR § 257.90(a) and (c)	2
	2.2 40 CFR § 257.90(e) – Summary	2
	2.2.1 Groundwater Monitoring and Corrective Action Program Status	3
	2.2.2 Key Actions Completed	3
	2.2.3 Problems Encountered	4
	2.2.4 Actions to Resolve Problems	5
	2.2.5 Project Key Activities for Upcoming Year	5
	2.3 40 CFR § 257.90(e) – Information	5
	2.3.1 40 CFR § 257.90(e)(1)	6
	2.3.2 40 CFR § 257.90(e)(2)	6
	2.3.3 40 CFR § 257.90(e)(3)	6
	2.3.4 40 CFR § 257.90(e)(4)	6
	2.3.5 40 CFR § 257.90(e)(5)	7

1	Summary of Analytical Results
2	2022 Synoptic Water Levels for Groundwater Monitoring Wells
Figure No.	Title
1	Location of Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond Groundwater
	Monitoring Wells for CCR Compliance
2	Potentiometric Map February 2022
3	Potentiometric Map July 2022

## Appendix A – Statistical Analysis

Table No.

## Appendix B – Laboratory Analytical Reports

Title

## Appendix C – Alternate Source Demonstration for Class 3 Landfill Area 1 (October 2022)

#### 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 closed coal combustion residuals (CCR) management unit referred to as the Closed Unit 2 Slurry Pond and the currently operational Class 3 Landfill Area 1 located at the Winyah Generating Station (WGS) in Georgetown, South Carolina. This 2022 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of CCR from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated 17 April 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

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

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

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

New SSIs of boron (WAP-7), chloride (WAP-7), and fluoride (WLF-A1-3) were identified for the Class 3 Landfill Area 1 in the February/March 2022 groundwater monitoring event. SSIs for boron and chloride were identified in monitoring well WAP-7 during the July 2022 groundwater monitoring event. After the statistical evaluation for the February/March groundwater monitoring event, the initial successful ASD certified September 12, 2019, was reassessed to evaluate the possibility of additional sources that could be the cause of the SSIs at Landfill Area 1. The second successful ASD supported findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. The successful ASD was completed and placed in the operating record on October 25, 2022. Therefore, at the end of the current annual reporting period (December 31, 2022), the Class 3 Landfill Area 1 remained in detection monitoring.

For the closed Unit 2 Slurry Pond in 2022, SSLs above the GWPS were not identified in either the February/March or July 2022 groundwater monitoring events. Therefore, at the end of the current annual reporting period (December 31, 2022), the closed Unit 2 Slurry Pond remained in assessment monitoring. 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 for either CCR Unit are 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. 40 CFR § 257.90 Applicability

#### 2.1 40 CFR § 257.90(a) and (c)

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

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

The co-located Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond at the WGS are subject to the groundwater monitoring and corrective action requirements set forth by the EPA in the Code of Federal Regulations 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Landfill Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

#### 2.2 40 CFR § 257.90(e) - SUMMARY

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

This Annual Report documents the activities completed in 2022 for the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond at WGS as required by the Groundwater Monitoring and Corrective Action regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and

the status of the groundwater monitoring program, set forth in § 257.94 and § 257.95, is provided in this report.

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

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

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

As previously noted, new SSIs of boron (WAP-7), chloride (WAP-7), and fluoride (WLF-A1-3) were identified for the Class 3 Landfill Area 1 in the February/March 2022 groundwater monitoring event. SSIs for boron and chloride were again identified in monitoring well WAP-7 during the July 2022 groundwater monitoring event. Due to laboratory delays (see discussion in Section 2.2.3 below), validated analytical results were not available until June 8, 2022 for the February/March 2022 event; therefore, statistical evaluations of the detection monitoring data and the assessment monitoring data were completed on July 27, 2022, and August 1, 2022, respectively. Because these were new SSIs associated with monitoring the Class 3 Landfill Area 1, a second ASD was conducted to evaluate the potential of Class 3 Landfill Area 1 as a contributing source to the SSIs. The second successful ASD supported findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. This successful ASD which again identified the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill Area 1's Appendix III SSIs, was completed and placed in the operating record on October 25, 2022

Regarding the closed Unit 2 Slurry Pond, SSLs above the GWPS were not identified in either the February/ March or July 2022 groundwater monitoring events for the Assessment Monitoring Program. As a result, the Class 3 Landfill Area 1 remains in the Detection Monitoring program as required by § 257.94(e)(2) and the closed Unit 2 Slurry Pond remains in Assessment Monitoring. The statistical analyses are provided in Appendix A.

#### 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 monitoring (February/March and July) in accordance with § 257.94 and § 257.95 and recorded the concentrations in the facility's operating record as required by § 257.94(f) and § 257.95(i). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B;
- Completed statistical evaluations to determine statistically significant increases for Appendix III
  constituents and statistically significant levels for Appendix IV constituents in accordance with §
  257.93(h)(2) (Appendix A);
- Completed an alternate source demonstration for the Class 3 Landfill Area 1 SSIs in accordance with § 257.94(e)(2) (Appendix C);
- 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; and
  - Although neither the closed Unit 2 Slurry Pond nor the operating Class 3 Landfill Area 1 are a source of hydraulic head or groundwater recharge, the water surface elevations of other WGS unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer.

#### 2.2.3 Problems Encountered

There were multiple laboratory issues encountered in 2022 which contributed to longer than average turnaround time to receive analytical results. 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 lab's 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. All non-detect reporting limits were below the required GWPS for the February/March samples.

For the July sampling event, the samples were again held at the Analytical Services 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/March and the July samples, the lab obtained different reporting limits for the two sampling events. Even though the lowest achievable reporting limits were variable, all non-detect reporting limits were below the required GWPS for the July samples.

#### 2.2.4 Actions to Resolve Problems

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

#### 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 operating record as required by § 257.105(h)(1), notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring as required by § 257.94 and § 257.95.
- Conduct statistical analysis of the Detection Monitoring analytical data to determine if SSIs of the detected Appendix III constituents are present for the Class 3 Landfill Area 1 and verify ongoing validity of the certified October 2019 and October 2022 ASDs.
- Conduct statistical analysis of Assessment Monitoring analytical data to determine if SSLs of the detected Appendix IV constituents are present for the closed Unit 2 Slurry Pond.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
  - Increasing the sitewide synoptic water level measurements from two (2) to four (4) times per year (on a quarterly basis and in conjunction with the semi-annual groundwater monitoring events).
  - Continue collecting surface water elevations from other WGS unlined ponds, also on the same quarterly basis as the sitewide synoptic water level measurements.

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

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

#### 2.3.1 §257.90(e)(1) AERIAL IMAGE OF GROUNDWATER MONITORING PROGRAM

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

As required by §257.90(e)(1), a map showing the location of the co-located closed Unit 2 Slurry Pond and the Class 3 Landfill Area 1 and associated upgradient and downgradient monitoring wells is included in this report as Figure 1. The groundwater monitoring network meets the requirements of §257.91 for both units.

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

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

Monitoring wells were neither installed nor decommissioned during 2022.

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

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

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

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

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

As required by §257.93(h), Haley & Aldrich performed a statistical analysis of the Appendix III and IV constituents detected in groundwater downgradient of the Class 3 Landfill Area 1 and closed Unit 2 Slurry Pond to evaluate the potential for SSIs and SSLs, respectively. A summary of the statistical evaluation is provided in Appendix A of this report. As in previous years, SSLs of

Appendix IV constituents in the Assessment Monitoring Program for the closed Unit 2 Slurry Pond were not identified in either of the 2022 monitoring events.

As noted earlier in this Annual Report, new SSIs of boron (WAP-7), chloride (WAP-7), and fluoride (WLF-A1-3) were identified for the Class 3 Landfill Area 1 in the February/March 2022 groundwater monitoring event. Due to laboratory delays, validated analytical results were not available until June 8, 2022. A statistical evaluation of the detection monitoring data was completed on July 27, 2022. A successful ASD was completed and placed in the operating record on October 25, 2022 (see Appendix C). This October 2022 ASD continued to identify the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill's Appendix III SSIs. As a result, the Class 3 Landfill Area 1 remained in detection monitoring while the closed Unit 2 Slurry Pond remained in assessment monitoring.

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

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

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.94 of the Rule. There are no applicable requirements from Sections § 257.95 through § 257.98.

The potentiometric surface characterization of the uppermost aquifer was improved by collecting site-wide synoptic water levels. Additionally, the groundwater elevation measurement procedure was revised 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 nearby unlined ponds were surveyed at approximately the same time as the semi-annual monitoring events as they 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, 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 Class 3 Landfill Area 1 Detection Monitoring and Closed Unit 2 Slurry Pond Assessment Monitoring 2022

						А	ppendix	III Cons	stituents			10							А	ppendix l	V Consti	tuents							The state of the s				Field Par	ameters			
		Date of	Laboratory		Boron	Calcium			e Sulfate	Tota Dissol	red .	Antimony	Arsenic	Barium	Beryllium	Cadmiun	Chromium	Cobalt	Fluoride	Lea			Mercury	Molybdenum	Radium 226	Radium 228	226/Radium	Selenium	Thallium	Depth to Groundwater	Groundwater Elevation		Specific Conductivity	Temperature	Reduction	Turbidity	Dissolv
Vell ID	Purpose	Sample Event	Sample ID Number							Solid	s																228 Combined Calculation			5 to the 2014 - 5 to the 3 d ( 5 to	et and a 55 million flack full laments as a		State share per fundament (SSS)		Potential		
				Unit Method	ug/L EPA 6010D	mg/L	mg/L	mg/L	mg/L	mg/l	. SU	ug/L	ug/L	ug/L EPA 6010D	ug/L EPA 6020B	ug/L EPA 6020	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L	pCi/L	pCi/L	ug/L d EPA 6020B	ug/L	Feet (btoc)4	Feet (msl) <sup>4</sup>	SU	uS	С	mv	NTU	ppn
		t-		GWPS/ US EPA				4.00	.0 EFA300	.0 SIVI 234		25.0	10.0	2000	4.00	5.00	100	6.00	4.00	15	7 7	40.0	2.00	100			5.90	50.0	2.00								1
	Site Backgro	und Walle		MCL/RSL	10000	(ARTES	1.000	4.00	(0.000)		\$277.90	25.0	10.0	2000	4.00	5.00	100	0.00	7.00			40.0	2.00	100		(3000)	330	30.0	2.00	10000			2000		255)		
W-A1-1	Background	2/16/2022	AF27222		14.8	39.0	12.6	6 <0.10	00 12	26 2	5.0 4.67	<5.00		73.3	<0.500 <0.500		0 <5.00	<0.500	-0.100	100	<2.50	<5.00	<0.200	<5.00	0.760	2.0	1 2.77	<5.00		6.24	410	4.67	324	20.5	-90.0	4 - 4	H
N-A1-1	Background Background	8/9/2022	AF38191 AF41633		47.0 56.0	92.0	13.6	6 <0.10 4 <0.10	00 24	48	365 4.67	<5.00	<3.00	130	<0.500	<0.01	0 <5.00	<0.500	<0.100 <0.100	<10.0		<10.0	<0.200	<10.0	2.12	0.976	5 3.10	<2.50	<1.00	9.07	19.1 17.9	4.62 4.67	474 609	24.8	-52.0 -150	يِّ ا	
	total samples				3	v		•	3	3	3 3	2		2			2 2		3	1	- 1	2			2	ŕ	2 2	2				3	3	3	•		
	dfill (Area 1) /Cl Well	S																																			
⊃_7 [0 A	Detection/ Assessment	2/17/2022	AF27193		2370	514	4 97.3	3 <0.10	95	57 1	942 6.44	<2.00	3.30	34.6	<0.500	<0.50	0 <5.00	0.700	<0.100		<2.50	<5.00	<0.200	<5.00	1.39	3.56	5 4.94	<5.00	<1.00	9,44	20.5	6.44	2780	22.5	-255	6.10	) (
	Detection/ Assessment	7/13/2022	AF38162		4000	683	3 123	3 <0.10	138	30	820 6.53	<5.00	<3.00	39.0	<0.500	<0.50	0 <5.00	<0.500	<0.100	<10.0	<2.50	<10.0	<0.200	<10.0	1.50	1.34	4 2.84	<2.50	<1.00	10.2	19.7	6.53	2830	22.4	-268	1.60	
2-7	ASD <sup>5</sup>	8/9/2022	AF41641		4000	690	0 109	9 <0.10	00 124	40 2	531 6.52				·		8		<0.100											10.8	19.7	6,52	2720	30.3	-316	1.30	
9-7 t	total samples				3	3	3 3	3	3	3	3 3	2	2	2 2	2		2 2	2	3	1	2	2	2	2	2	2	2 2	2	2	3	3	3	3	3	3	3	
	Detection/ Assessment	3/3/2022	AF27223		1540	335	5 83.0	0 <0.10	57	76 1	374 6.45	<5.00	<3.00	34.9	<0.500	<0.50	0 <5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.810	2.66	6 347	<5.00	<1.00	18.1	23.2	6.45	1800	26.4	-67.0	10.8	3
A1-1 [	Detection/ Assessment	7/12/2022	AF38192		880	310	0 23.4	4 <0.10	00 56	64 1	222 6.03	<5.00	<5.00	37.0	<0.500	<0.50	0 <5.00	<0.500	<0.100	<10.0	***	<10.0	<0.200	<10.0	0.189	0.572	2 0.762	<2.50	<1.00	18.6	22.6	6.03	1550	23.3	-89.0	0.400	j –
	ASSESSMENT ASD <sup>5</sup>	8/9/2022	AF41634		910	390	0 20.8	8 <0.10	00 51	19 1	125 6.13	-	1		7		9		<0.100		+									19.3	22.1	6.13	1440	30.2	-171	0	,
-A1-1 t	total samples				3	3	3 3	3	3	3	3 3	2	2	2 2	2		2 2	2	3	1	1	2	2	2	2	2	2 2	2	2	:	3	3	3	3	3	3	,
A1-2 [	Detection/	3/2/2022	AF27224		1420	90.7	7 92.1	1 <0.10	00 14	49	494 5.52	<5.00	<3.00	54.7	<0.500	<0.50	0 <5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	1.35	1.79	9 3.13	<5.00	<1.00	6.70	22.5	5.52	644	24.0	-208	6.70	
A1-2 [	Assessment Detection/	7/11/2022	AF38193		110	32.0	4.78	8 <0.10	00 82	.1	134 4.59	<5.00	<3.00	49.0	<0.500	<0.50	0 <5.00	1.91	<0.100	<10.0		<10.0	<0.200	<10.0	0.885	1.9	1 2.80	<2.50	<1.00	7.37	21.8	4.59	210	22.9	8.00	0	0 0
A1-2	Assessment ASD <sup>5</sup>	8/8/2022	AF41635	}	120	33.0	5.54	4 <0.10	00 88	6	154 4.53			ļ.					<0.100		-									8.10	21.1	4.53	236	23.8	-52.0		
	total samples				3	3	3 3	3	3	3	2 2	2		2	2		2 2	2	3	1	1	2	2	2	2	,	2 2	2	2			3	3	3	3	-	
A1-3 [	Detection/	3/2/2022	AF27225		278	19.5	5 4.48	8 0.15	50 75	0	131 4.40	<5.00	3.15	5 25.4	<0.500	<0.50	0 <5.00	1.43	0.150		<2.50	<5.00	<0.200	<5.00	0.919	9.76	5 467	<5.00	<1.00	6.66	21.3	4.40	100	20.5	4.00	6.30	
/	Assessment	3/2/2022	and the government of the state		270	18.0	10000	1	300	~	00 400	Virginia	(50)	572000	200000	5.67%3	G (100.0)	52,830	100.000	40.0	12.50	**********	10000000000	1,000,000	0.000	0.70	100.00	Vessor	183.77	170000	57936	10(207)	100	20.0	F8:775	200000	
/	Detection/ Assessment	7/11/2022	AF38194		260	10.0	5.04				6.3 4.32	<5.00	7.00	36.0	<0.500	<0.50	0 <5.00	0.890		<10.0		<10.0	<0.200	<10.0	0.963	1.50	2 2.49	<2.50	<1.00	7.30	21.0		100	23.8	28.0		
	ASD°	8/8/2022	AF41636		170	18.0	5.37	7 <0.10	JU 62	.ь з	11.3 4.24	72							<0.100									72		8.19	20.1	4.24	182	23.7	-39.0		
	total samples				3	3	3 3	3	3	3	3 3	2	2	2 2	2		2 2	2	3	1	1	2	2	2	2	2	2 2	2	2	3	3	3	3	3	3	3	
1	Detection/ Assessment	3/2/2022	AF27226		244	76.8	7.55	5 <0.10	00 73	.9	309 6.28	<5.00	<3.00	30.4	<0.500		0 <5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.355	2.46	6 2.81	<5.00		6,46	21.8	6.28	447	19.9	-15.0	0	
	Detection/	3/2/2022 7/11/2022	AF27227 AF38195		245 220	79.0 76.0	7.62	2 <0.10 6 <0.10	00 75 00 69	.1	304 280 6.03	<5.00 <5.00		31.0	<0.500 <0.500		0 <5.00 0 <5.00	<0.500 <0.500	<0.100 <0.100	<10.0	<2.50	<5.00 <10.0	<0.200 <0.200	<5.00 <10.0	0.496 0.493	2.10	0 2.59 9 2.88	<5.00 <2.50		7.00	21.2	6.03	355	22.5	-63.0	. 0	j -
-A1-4 [	Assessment Duplicate	7/11/2022	AF38196		210	79.0	0 6.64	70.10	00	1.9	269	<5.0C	<3.00	35.0	<0.500	<0.50	0 <5.00	<0.500	10.100	<10.0		<10.0	<0.200	<10.0	0.378	0.604	4 0.982	<2.50	<1.00								
A1-4 [	(F1.06.00001)	8/9/2022	AF41637 AF41638		270	93.0	7.68	8 <0.10	JU 77	.0	289 6.15								<0.100											7.81	204	6.15	441	23.4	-100	°	
	Duplicate total samples	6/9/2022	AF41638		260 <b>6</b>	89.0	6 6	9 <u.1l< td=""><td>6 /8</td><td>6</td><td>6 3</td><td>4</td><td>4</td><td>4</td><td>4</td><td></td><td>4 4</td><td>4</td><td>&lt;0.100</td><td>2</td><td>2</td><td>4</td><td>4</td><td>4</td><td>4</td><td>i i</td><td>4 4</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td></td></u.1l<>	6 /8	6	6 3	4	4	4	4		4 4	4	<0.100	2	2	4	4	4	4	i i	4 4	4	4	3	3	3	3	3	3	3	
A1-5	Detection/	3/3/2022	AF27228		1930	252	2 159	9 <0.10	00 51	12 1	235 7.02	<5.00	<3.00	34.1	<0.500	<0.50	0 <5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.780	0.670	0 1.45	<5.00	<1.00	16.0	21.6	7.02	1700	25.1	-85.0	0	,
A1-5	Assessment Detection/	7/12/2022	AF38197		1900	290	0 168	8 <0.10	00 46	65 1	338 6.76	<5.00	<3.00	37.0	<0.500	<0.50	0 <5.00	<0.500	<0.100	<10.0		<10.0	<0.200	<10.0	0.339	0.47	7 0.816	<2.50	<1.00	16.4	21.3	6.76	1660	24.3	-94.0	4.60	
A1-5	Assessment ASD <sup>5</sup>	8/9/2022	AF41639		1800	310	0 164	4 <0.10	00 52	29 1	456 6.46				2		**		<0.100		+		-							16.0	21.6	6.46	1830	23.6	-122	0	) (
	total samples					-		2	2	2	2 2		2	2	2											L				<b>!</b>			2	2	2	1 -	+

<sup>1.</sup> All groundwater samples collected from the monitoring wells were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Eurofins Savannah (Certification # 98001), Rogers & Calicot, Inc. (Certification # 23105001), and Pace Analytical Services LLC (Certification # 99030).
2. All Background, Detection Monitoring & Assessment Monitoring 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 (block) to the water surface. Elevicion is shown relative to mean sea level (mst).
5. ASD samples were additional samples collected to prepare the Alternate Source Demonstration report published in October 2022.

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

		2022 Synoptic 1st Eve		3 101 010411	awater wio	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>11</del> 7	18.03	7/6/2022	=	1 <del>-1</del> -2	17.93
PSE-5 <sup>4</sup>	3/3/2022	-	-	21.06	7/6/2022	-		19.27

Notes:

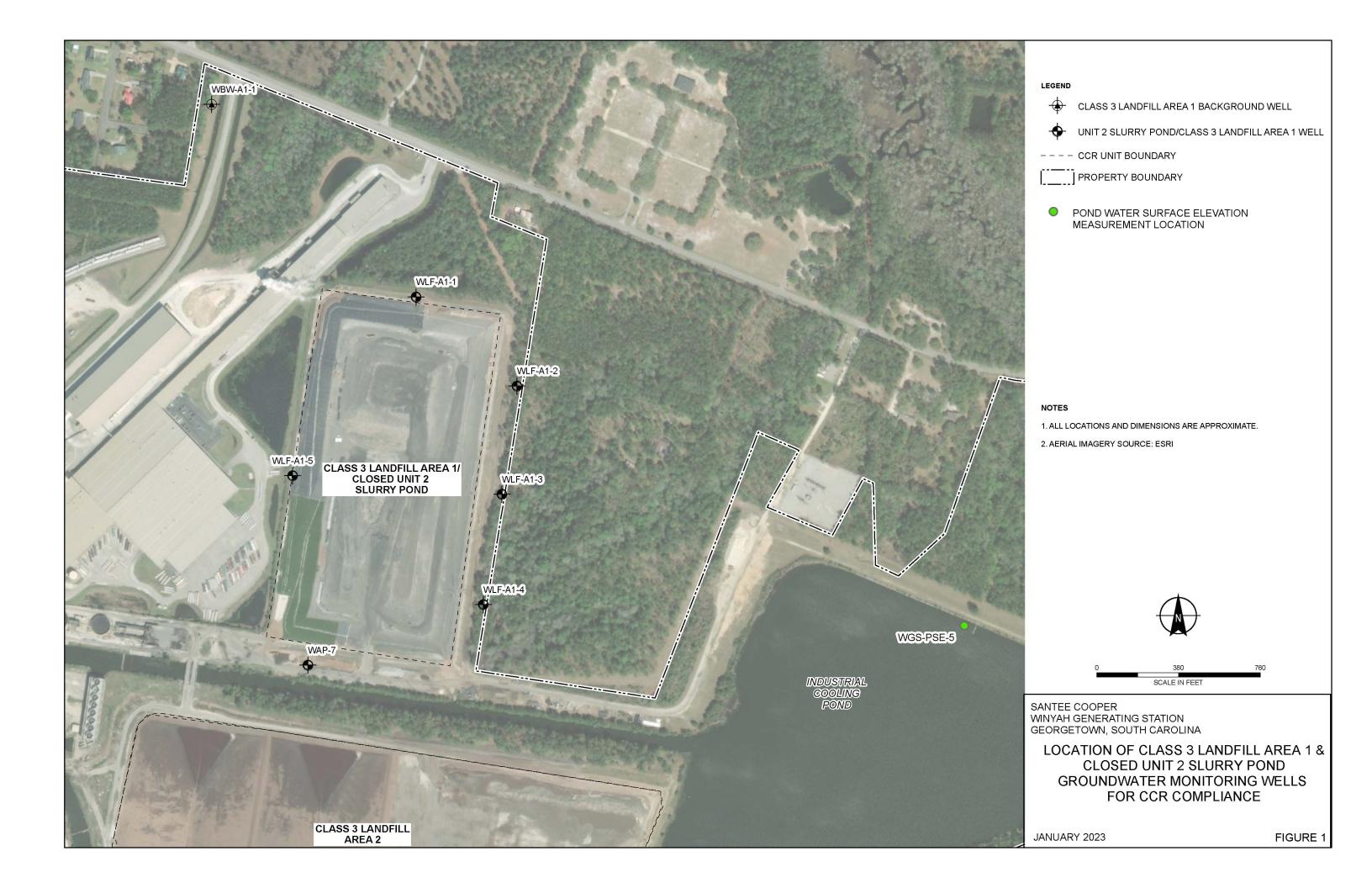
<sup>1.</sup> Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SC DHEC Industrial Wastewater Permit #SC0022471 and are not used for CCR constituent concentrations.

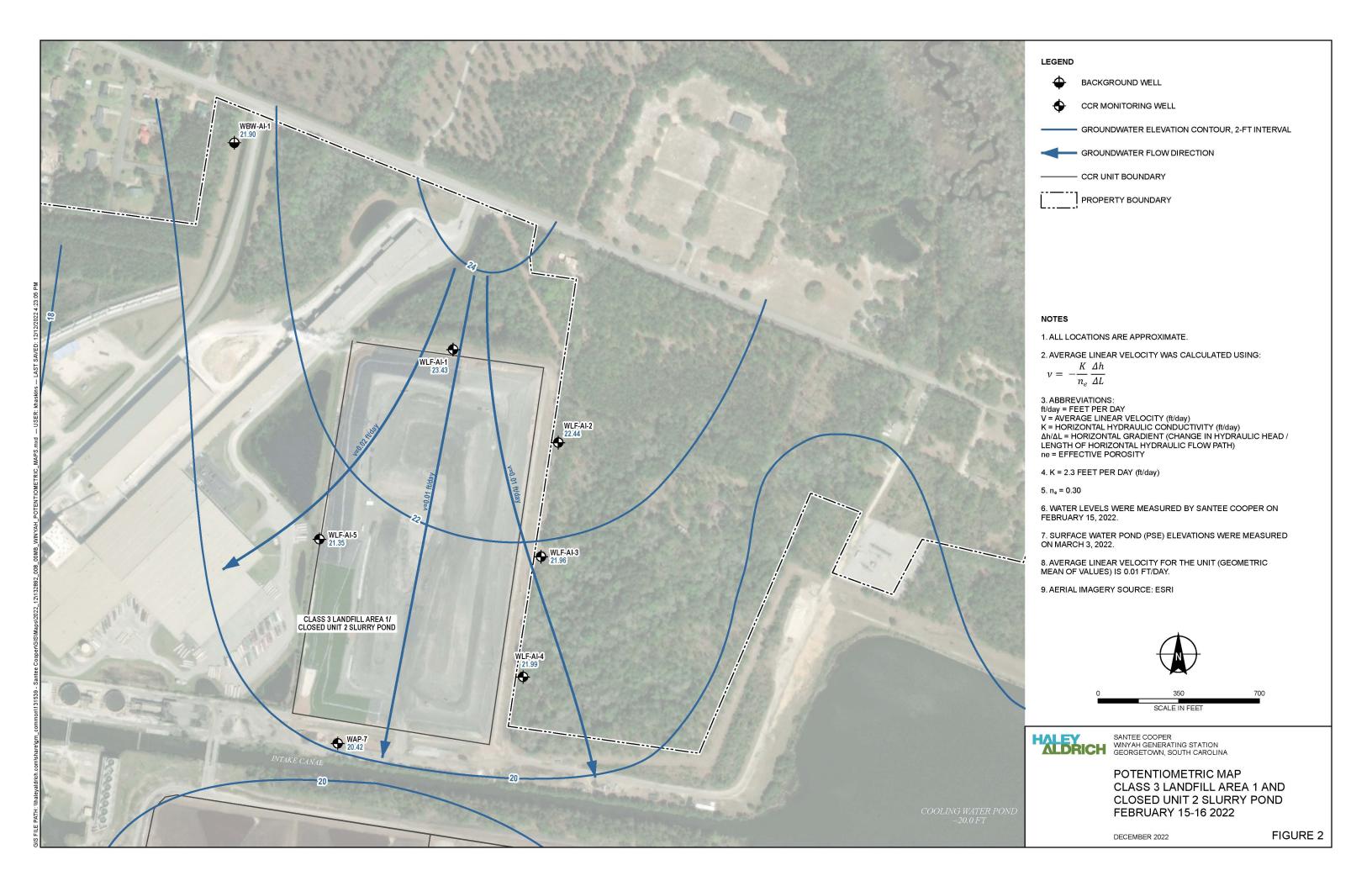
<sup>2.</sup> Depth to Groundwater is measured below the top of the casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to mean sea level (msl).

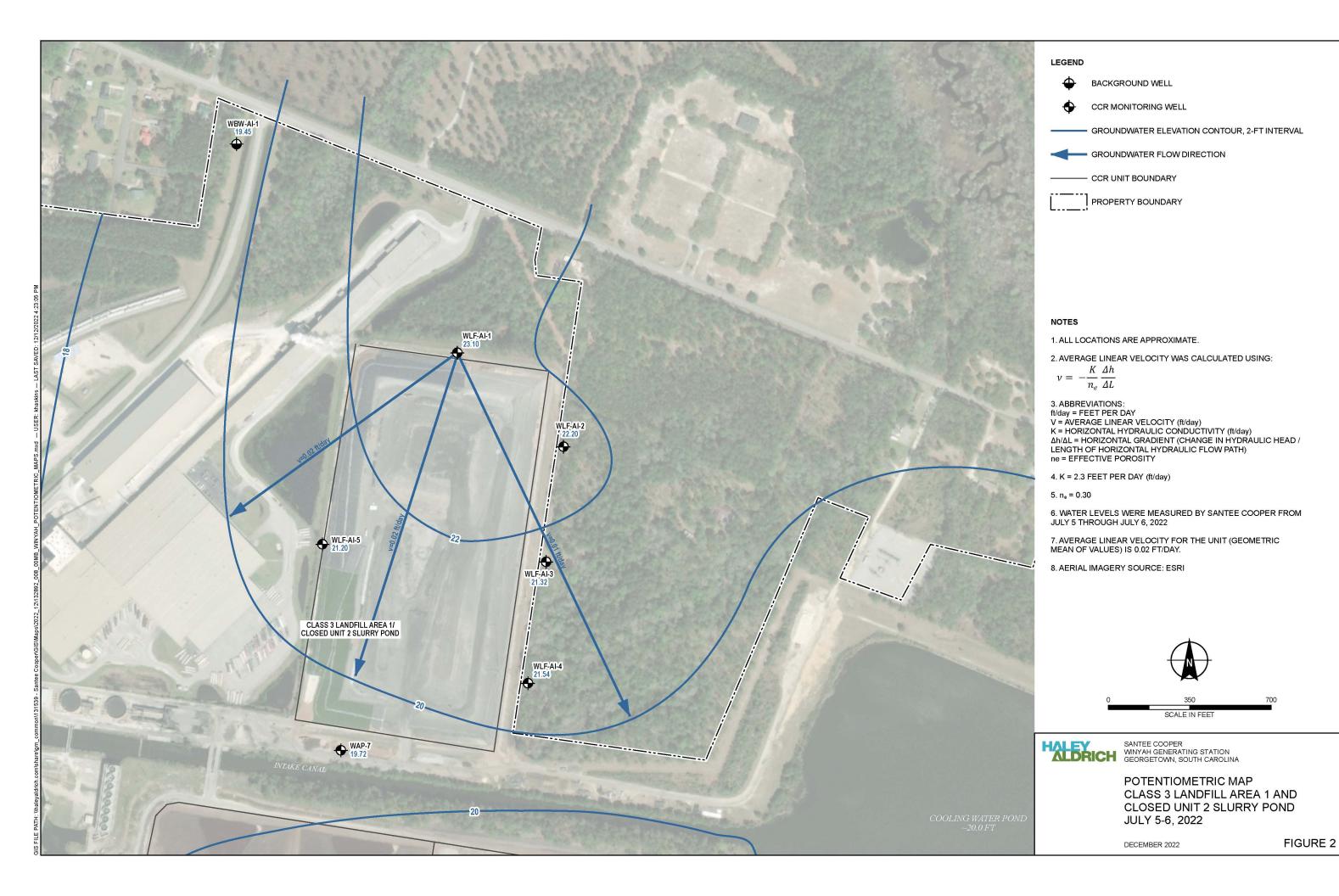
<sup>3.</sup> Was not sampled during the 1st event.

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

## **FIGURES**







Appendix A – Statistical Analysis



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#### **TECHNICAL MEMORANDUM**

July 27, 2022 File No. 132892-014

SUBJECT: Statistical Evaluation of the February-March 2022 Semiannual Groundwater Detection

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

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February to March 2022 semiannual detection monitoring event for the Class 3 Landfill Area 1 at the Winyah Generating Station (WGS). Data for this groundwater sampling event were validated on June 8, 2022 by Santee Cooper.

#### BACKGROUND

After completion of baseline sampling, the initial statistical analysis identified statistically significant increases (SSIs) for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. Recognizing the Unit 2 Slurry Pond was in the footprint of the Class 3 Landfill Area 1 and had been closed by removal of coal combustion residuals (CCR), an alternate source demonstration (ASD) was completed in September 2019. The ASD concluded the closed Unit 2 Slurry Pond is the source for the Appendix III SSIs and as a result, the Class 3 Landfill Area 1 remained in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

#### STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4); SC regulations R.61-107.19 Part V, Subpart E, Section 258.53.g) represents an SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

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

South Carolina Public Service Authority (Santee Cooper) July 27, 2022 Page 2

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

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009, background concentrations were updated for the February 2020 semiannual sampling event based on statistical evaluation of analytical results collected through February 2020. The background dataset will be updated again after the 2023 first semiannual sampling event, in accordance with the Unified Guidance.

#### RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

The current analytical result for each constituent at each monitoring well was compared to the background value of that constituent to determine whether an SSI has occurred. Table I presents the statistical analysis summary for the February to March 2022 sampling event. As presented in Table I, SSIs of Appendix III constituents were not identified during the February to March 2022 sampling event, except for boron and chloride at WAP-07 and fluoride at WLF-A1-3.

The statistical evaluation identified SSIs for boron and chloride at WAP-07 using an intrawell analysis, even though the concentrations fell within the historical range of concentrations for monitoring well locations for this unit (prior to receiving CCR in the Class 3 Landfill Area 1). These March 2022 concentrations were flagged as outliers but were not removed from the dataset. The Mann-Kendall trend analysis completed as part of the statistical evaluation shows that both boron and chloride are stable at this location; therefore, no upward trends are observed and the Mann-Kendall analysis supports the findings of the September 2019 ASD.

Additionally, the statistical evaluation of the March 2022 sampling event identified an SSI for fluoride at monitoring well WLF-A1-3 with an intrawell confidence level of 77.8% (false positive rate of 22.2%) and an interwell uncertainty of 63.6% (false positive rate of 36.4%). Importantly, the detected concentration for fluoride at WLF-A1-3 at 1.5 milligrams per liter (mg/L) is below the maximum contaminant limit (MCL) of 4 mg/L but above the UPL of 0.10 mg/L (based on 14 sampling events).

While fluoride has been detected at similar concentrations at other monitoring locations in the Class 3 Landfill Area 1, this was the first-time fluoride had been detected at WLF-A1-3. The previous sampling results were non-detect and as a result, the February to March 2022 sampling result was flagged as an outlier but was not removed from the dataset. Due to the timing of receipt of validated data, a confirmation sample was not collected. However, fluoride for WLF-A1-3's July 2022 sampling event was non-detect (<0.10 parts per million [ppm]). According to the certified laboratory, the March 2022



South Carolina Public Service Authority (Santee Cooper) July 27, 2022 Page 3

sample had higher turbidity and total dissolved solids (TDS) than the July 2022 sample, which could contribute to the variability in the results.

The low confidence levels and other factors noted above for boron, chloride, and fluoride suggest uncertainty in the analytical results and corresponding statistical evaluations. Additional analytical data and evaluations are required to determine if the SSIs are the result of error of sampling, analysis, statistical evaluation, or natural variation in groundwater quality. If additional data and evaluations support an ASD for the boron, chloride, and fluoride SSIs, a written determination should be completed within 90 days from the date of this technical memorandum to remain in detection monitoring per §257.94(e)(2).

Groundwater concentration and trends will continue to be monitored in future sampling and the Class III Landfill Area 1 will remain in detection monitoring in 2022, assuming successful completion of the ASD.

#### Attachment:

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

\\haleyaldrich.com\share\grn\_common\131539 - Santee Cooper\Winyah Generating Station\Statistical Analysis\2022-01\Class 3 LF Area 1\2022-0727 HAI WGS Class III LF A1 Detection Monitoring Stats F.docx



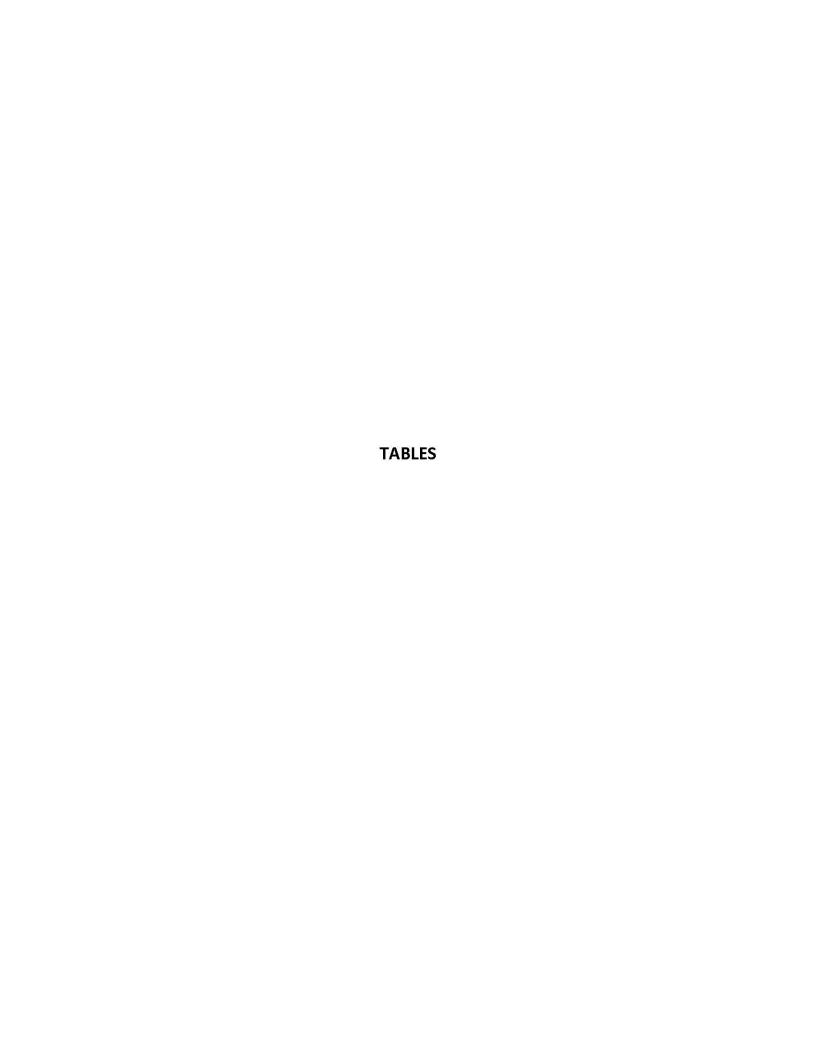


Table 1
Winyah Class III Landfill Area 1
Detection Monitoring Statistical Analysis Summary
February 2022 Groundwater Monitoring Event

		f			1							1							1			Inter-we	ell Analysis		Intra-well Anal	ysis
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 2022 Concentration (mg/L)	Detect?	Upper Prediction Limit (mg/L)	Exceedance above Background at Individual Well (SSI)	Limit (Upper Prediction	Background Limit (Upper Prediction Limit) ug/L	SSI
							CCR Append	lix-III: Boron, Tot	al (mg/L)																	
VBW-A1-1	14/14	0%	4	0.0377	0.036	0.0585	0.078	0.000196	0.014	0.3714	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	AMAZOLANIA.		0.078				
WAP-07	13/13	0%	-	0.732	0.8	1.608	2.37	0.3725	0.6103	0.8334	NA	mg/L	N	0	0	Yes	No	Stable	Normal	2.37	1.00		Y	2.04	2040.22	Υ
NLF-A1-1	14/14	0%	2	3.18	3.65	4.035	4.1	1.074	1.036	0.3261	NA	mg/L	N	0	0	No	No	Decreasing	Non-parametric	1.54	1.00	-	Y	4.10	4100	. N
MLF-A1-2	14/14	0%	-	0.464	0.325	1.098	1.8	0.206	0.4539	0.978	NA NA	mg/L	N N	0	0	Yes	No No	Decreasing	Non-parametric	1.42	1.00		Y	1.80	1,800	N
MLF-A1-3 MLF-A1-4	14/14	0%	-	0.114	0.082	0.2525	0.48	0.01145	0.107	0.9381	NA NA	mg/L	N	0	0	Yes	No	Stable Decreasing	Non-parametric	0.28	1.00		Y	0.48	1200	N
WLF-A1-4 WLF-A1-5	14/14	0%		2.17	2.15	3	3	0.3699	0.6082	0.2801	NA NA	mg/L mg/L	N	0	0	No	No	Decreasing	Non-parametric	0.24 1.93	1.00	-	Y	1.20 4.40	4398.17	1
VII AIS	14/14	570	2	2.1/	2.13	,	170	x-III: Calcium, To		0.2001	1851	IIIB/L		1 9	· ·	0.99		DEGLEGANS	14OHHEI	1.93	1.00			4.40	4550.17	382
/BW-A1-1	15/15	0%	- 1	41.2	44.7	61.15	65	235.3	15.34	0.3722	NA	mg/L	N	0	0	Yes	Yes	Decreasing	Normal			92.77				
WAP-07	16/16	0%	-	285	213.5	581.8	602	42200	205.4	0.7216	NA.	mg/L	N	0	0	Yes	Yes	Stable	Normal	514.0	Υ		γ	976.37	976368	N
WLF-A1-1	15/15	0%	92	456	480	650.1	746	29150	170.7	0.3743	NA	mg/L	N	0	0	Yes	Yes	Decreasing	Normal	335.0	Υ	- V	γ	932.56	932563	- N
WLF-A1-2	15/15	0%	-	83.6	90.7	168.1	187	4238	65.1	0.7783	NA	mg/L	N	0	0	Yes	Yes	Stable	Normal	90.7	Υ		N	335.21	335207	N
WLF-A1-3	15/15	0%	7-	14.4	13.8	26.16	26.3	66.43	8.151	0.5669	NA	mg/L	N	0	0	Yes	Yes	Increasing	Normal	18.5	Y		N	43.68	43679.5	N
WLF-A1-4	15/15	0%	-	111	120	193.8	212	2910	53.95	0.4843	NA	mg/L	N	0	0	Yes	Yes	Decreasing	Normal	76.8	Υ		N	295.02	295015	N
WLF-A1-5	15/15	0%		229	252	307	321	6008	77.51	0.3379	NA	mg/L	N	0	0	Yes	Yes	Stable	Normal	252.0	Y		Υ	425.14	425140	N
								ndix-III: Chloride	(mg/L)																	
WBW-A1-1	15/15	0%	>-	16.6	9.75	48.11	67.5	260.1	16.13	0.9698	NA	mg/L	N	0	0	Yes	No	Increase	Non-parametric			67.50				
WAP-07	16/16	0%	-	25.7	14.55	74.35	97.3	695.2	26.37	1.025	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	97.30	Y		Υ	66.70	66700	Y
WLF-A1-1	15/15	0%	-	135	142	258.1	270	5296	72.77	0.5404	NA	mg/L	N	0	0	No	No	Decreasing	Normal	83.00	Y	_	Y	409.49	409488	N
WLF-A1-2	14/14	0%		48.7	27.55	153.1	211	3246	56.98	1.171	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	92.10	Y	-	Y	211.00	211000	1
WLF-A1-3	15/15	0%	-	7.86	4	22.4	59.3	203.5	14.26	1.815	NA NA	mg/L	N	0	0	Yes	No No	Stable	Non-parametric	4.48	Y	-	N	59.30	59300	- 1
WLF-A1-4 WLF-A1-5	15/15	0%		9.72 127	6.96 113	23.59 174.3	41.3 175	85.78 1519	9.262 38.98	0.9524	NA NA	mg/L mg/L	N	0	0	Yes No	No No	Stable Stable	Non-parametric Normal	7.55 159.00	Y	-	Y	41.30	41300 269481	N
MU-WI-2	15/15	0.76	-	TZ/	113	1/4.3		ndix-III: Fluoride		0.3039	INE	mg/L			U	INU	190	1 stable	INCHINA)	159.00	Y			269.48	203401	- 15
WBW-A1-1	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA:	NA.	NA NA	NA NA			0.10				
WAP-07	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.10	N		N	0.10	100	N
WLF-A1-1	0/15	100%	0.1-0.1	0.1	0.1	0.1		1.983E-18	1.408E-09	1.408E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.10	N		N	0.10	100	Ń
WLF-A1-2	4/15	73%	0.1-0.1	0.107	0.1	0.133	0.14	0.0001667	0.01291	0.121	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.10	N		N	0.14	140	N
WLF-A1-3	1/15	93%	0.1-0.1	0.103	0.1	0.115	0.15	0.0001667	0.01291	0.1249	4	mg/L	N	0	0	NA	NA	NA	NA	0.15	Y		Υ	0.10	100	γ
WLF-A1-4	0/15	100%	0.1-0.1	0.1	0.1	0.1		1.983E-18	1.408E-09	1.408E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.10	N		N	0.10	100	N
WLF-A1-5	1/15	93%	0.1-0.1	0.101	0.1	0.103	0.11	0.000006667	0.002582	0.02565	4	mg/L	N	0	0	NA	NA	NA	NA	0.10	N		N	0.11	110	N
							CCR Append	dix-III: pH, Field (	pH units)																	
WBW-A1-1	15/15	0%	2-	4.51	4.52	4.686	4.7	0.01595	0.1263	0.02798	NA	pH units	N	0	0	No	No	Stable	Normal			3.89, 5.13				
WAP-07	16/16	0%	-	5.96	5.955	6.6	6.69	0.1921	0.4383	0.07352	NA	pH units	N	0	0	No	No	Stable	Normal	6.44	Y		Υ	4.25, 7.6		N
NLF-A1-1	15/15	0%	-	6.32	6.4	6.47	6.47	0.03198	0.1788	0.02829	NA	pH units	N	0	0	Yes	No	Decreasing	Non-parametric	6.45	Y		Υ	5.79, 6.47		N
WLF-A1-2	15/15	0%	-	5.83	6.14	6.621	6.67	0.5763	0.7592	0.1303	NA	pH units	N	0	0	No	No	Decreasing	Normal	5.52	Y		N	2.77, 8.93		N
WLF-A1-3	15/15	0%	2-	4.23	4.19	4.496	4.58	0.03005	0.1733	0.04101	NA NA	pH units	N	0	0	No.	No	Stable	Normal	4.40	Y		N	3.53, 4.9		N
WLF-A1-4 WLF-A1-5	15/15 15/15	0%	75	6.37 6.91	6.38	6.656 7.042	7.07	0.05718	0.2391	0.03755	NA NA	pH units pH units	N N	0	0	No.	No No	Stable Stable	Normal	6.28 7.02	Y		Y	5.4, 7.34	+	N N
MrtHT-2	12/12	U%	-	0.91	6.09	7.042	CCR Appe	endix-III: Sulfate		0.01199	INA	prunits	JIN		U	MO	NU	Statute	Normal	7.02	r		1 1	6.59, 7.22		:18
VBW-A1-1	15/15	0%	- 1	126	119	173.7	180	732.2	27.06	0.2156	NA	mg/L	N	0	0	No	No	Stable	Normal			246.15		l I		
WAP-07	16/16	0%	-	661	548.5	1328	1440	197100	444	0.6715	NA	mg/L	N	0	0	No	No	Decreasing	Normal	957.0	γ	2 10125	γ	2269	2268650	N
WLF-A1-1	15/15	0%	-	871	942	1063	1070	39840	199.6	0.2292	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	576.0	Y		Υ	1070	1070000	N
WLF-A1-2	14/14	0%	2-	217	125	574	1040	68410	261.5	1.203	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	149.0	Y		N	1040	1040000	Ń
NLF-A1-3	15/15	0%		77.2	75.9	159.3	160	1424	37.73	0.489	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	75.9	Υ		N	160	160000	N
WLF-A1-4	15/15	0%	130	146	109	281.3	366	6694	81.81	0.5599	NA	mg/L	N	0	0	Yes	No	Stable	Normal	73.9	Υ		N	453	452715	N
NLF-A1-5	15/15	0%	100	392	380	530.9	575	9263	96.24	0.2453	NA	mg/L	N	0	0	Yes	No	Stable	Normal	512.0	Υ		Υ	727	727154	N
						CCR	Appendix-III: To	otal Dissolved So	lids (TDS) (mg/L)																	
VBW-A1-1	15/15	0%	120	226	213.8	340.3	352.5	5902	76.82	0.3403	NA	mg/L	N	0	0	Yes	No	Decreasing	Normal			568.22				
WAP-07	16/16	0%	(=0)	1160	1001	2193	2296	534300	731	0.6324	NA	mg/L	N	0	0	No	No	Stable	Normal	1942.00	Υ		Υ	3863	3862510	1
VLF-A1-1	15/15	0%	-	1900	2058	2418	2480	195500	442.2	0.2325	NA	mg/L	N	0	0	No	No	Decreasing	Normal	1374.00	Υ		Υ	3525	3525470	1
VLF-A1-2	15/15	0%		409	430	716.8	890	58930	242.8	0.5931	NA	mg/L	N	0	0	Na	No	Stable	Normal	493.80	Υ		N	1321	1321370	1
WLF-A1-3	15/15	0%	-	116	107.5	166	241.2	1517	38.95	0.3369	NA	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	131.20	Y		N	241	241200	1
WLF-A1-4	15/15	0%	-	444	458.8	656.2	755	21450	146.5	0.3299	NA	mg/L	N	0	0	No	No	Stable	Normal	308.80	Y		N	992	991586	1
VLF-A1-5	15/15	0%	(2)	1070	1129	1269	1310	35020	187.1	0.1744	NA	mg/L	N	0	0	No	No	Stable	Normal	1235.00	Υ		Y	1751	1751320	



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#### **TECHNICAL MEMORANDUM**

December 30, 2022 File No. 132892-014

SUBJECT: Statistical Evaluation of the Summer 2022 Semiannual Groundwater Detection

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

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the summer 2022 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 1. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

#### **BACKGROUND**

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

#### STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR unit (§257.93(f) (1-4)) represents a SSI of Appendix III parameters compared to background groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

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

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

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

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

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (the Unified Guidance), background concentrations were updated for the February 2020 semiannual sampling event based on statistical evaluation of analytical results collected through February 2020. The background dataset will be updated again after the 2023 first semiannual sampling event, in accordance with the Unified Guidance.

#### RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

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

- Chloride SSI at WAP-07
- Boron SSI at WAP-07

The groundwater concentrations for chloride and boron are within the historical range of concentrations for monitoring well locations for this unit (prior to receiving CCR in the Class 3 Landfill Area 1) and consistent with the findings of the 2022 ASD. The Mann-Kendall trend analysis completed as part of the statistical evaluation shows that both boron and chloride are stable at this location, which supports the findings of the September 2019 and October 2022 ASDs.

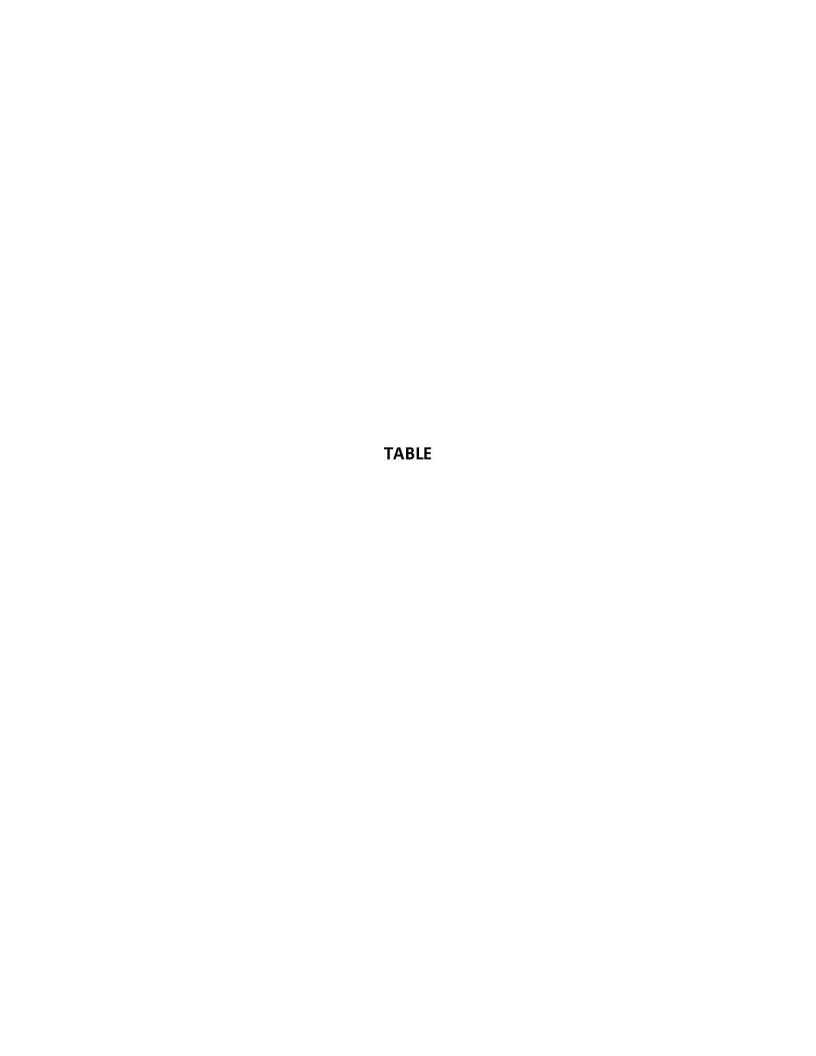
Groundwater concentration and trends will continue to undergo detection monitoring in 2023.

#### **Enclosures:**

Table I – WGS Class 3 Landfill Area 1 Summer 2022 Semiannual Groundwater Detection Monitoring Data

\\haleyaldrich.com\share\grn\_common\131539 - Santee Cooper\Winyah Generating Station\Statistical Analysis\2022-07\Class 3 Landfill Area 1\2022-1230\_HAI\_WGS\_Class III LF A1\_Detection Monitoring Stats\_F.docx





																						ij	ntra-well Analysis	
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 (mg/L)	Detect?	Background Limit (Upper Prediction Limit) mg/L	Background Limit (Upper Prediction Limit) ug/L	SSI
							CCR Append	dix-III: Boron, Tot	al (mg/L)															
WAP-07	12/12	0%	-	0.596	0.72	1.028	1.1	0.1422	0.3771	0.6329	NA	mg/L	N	0	0	No	No	Stable	Normal	4.00	Y	2.04	2040.22	Υ
WLF-A1-1	14/14	0%	-	3.18	3.65	4.035	4.1	1.074	1.036	0.3261	NA	mg/L	N	0	0	No	No	Decreasing	Non-parametric	0.88	Υ	4.10	4100	N
WLF-A1-2	14/14	0%	-	0.464	0.325	1.098	1.8	0.206	0.4539	0.978	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.11	Y	1.80	1800	N
WLF-A1-3	14/14	0%	-	0.114	0.082	0.2525	0.48	0.01145	0.107	0.9381	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.26	Υ	0.48	480	N
WLF-A1-4	14/14	0%	:-	0.395	0.355	0.784	1.2	0.0692	0.2631	0.666	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.22	Y	1.20	1200	N
WLF-A1-5	14/14	0%	-	2.17	2.15	3	3	0.3699	0.6082	0.2801	NA	mg/L	N	0	0	No	No	Decreasing	Normal	1.90	Y	4.40	4398.17	N
							CCR Append	ix-III: Calcium, To	tal (mg/L)															
WAP-07	15/15	0%	-	269	199	583.1	602	41210	203	0.7535	NA	mg/L	N	0	0	Yes	Yes	Stable	Normal	683	Y	976.37	976368	N
WLF-A1-1	14/14	0%	-	465	483.5	657	746	30180	173.7	0.3738	NA	mg/L	N	0	0	Yes	Yes	Decreasing	Normal	310	Y	932.56	932563	N
WLF-A1-2	14/14	0%	-	83.1	76.5	169.4	187	4560	67.53	0.8123	NA	mg/L	N	0	0	Yes	Yes	Stable	Normal	32	Y	335.21	335207	N
WLF-A1-3	14/14	0%	-	14.1	11.77	26.17	26.3	70.14	8.375	0.5947	NA	mg/L	N	0	0	Yes	Yes	Increasing	Normal	18	Y	43.68	43679.5	N
WLF-A1-4	14/14	0%	-	114	125	195.1	212	3036	55.1	0.4839	NA	mg/L	N	0	0	Yes	Yes	Decreasing	Normal	76	Y	295.02	295015	N
WLF-A1-5	14/14	0%	-	228	250.5	308	321	6428	80.18	0.352	NA	mg/L	N	0	0	Yes	Yes	Stable	Normal	290	Y	425.14	425140	N
							CCR Appe	ndix-III: Chloride	(mg/L)															
WAP-07	15/15	0%	-	20.9	14.1	63.97	66.7	354.5	18.83	0.8988	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	123	Y	66.70	66700	Υ
WLF-A1-1	14/14	0%	-	138	142.5	259	270	5483	74.05	0.5352	NA	mg/L	N	0	0	No	No	Decreasing	Normal	23.4	Y	409.49	409488	N
WLF-A1-2	13/13	0%	-	45.3	27.1	157.6	211	3347	57.86	1.277	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	4.78	Y	211.00	211000	N
WLF-A1-3	14/14	0%	-	8.1	3.99	25.03	59.3	218.2	14.77	1.823	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	5.04	Y	59.30	59300	N
WLF-A1-4	14/14	0%	1-	9.88	6.895	24.85	41.3	91.99	9.591	0.9708	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	6.56	Y	41.30	41300	N
WLF-A1-5	14/14	0%	-	125	110	174.4	175	1554	39.42	0.315	NA	mg/L	N	0	0	No	No	Stable	Normal	168	Y	269.48	269481	N
							CCR Appe	ndix-III: Fluoride	(mg/L)															
WAP-07	0/13	100%	0.1-0.1	0.1	0.1	0.1		4.626E-18	2.151E-09	2.151E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.1	N	0.10	100	N
WLF-A1-1	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.1	N	0.10	100	N
WLF-A1-2	4/14	71%	0.1-0.1	0.107	0.1	0.1335	0.14	0.0001758	0.01326	0.1238	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.1	N	0.14	140	N
WLF-A1-3	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.1	N	0.10	100	N
WLF-A1-4	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.1	N	0.10	100	N
WLF-A1-5	1/14	93%	0.1-0.1	0.101	0.1	0.1035	0.11	0.000007143	0.002673	0.02654	4	mg/L	N	0	0	NA	NA	NA	NA	0.1	N	0.11	110	N
							CCR Appen	dix-III: pH, Field (	pH units)															
WAP-07	15/15	0%	i -	5.93	5.92	6.606	6.69	0.1883	0.434	0.07319	NA	pH units	N	0	0	No	No	Stable	Normal	6.53	Υ	4.25, 7.6		N
WLF-A1-1	14/14	0%	-	6.31	6.38	6.47	6.47	0.03306	0.1818	0.02881	NA	pH units	N	0	0	Yes	No	Decreasing	Non-parametric	6.03	Υ	5.79, 6.47		N
WLF-A1-2	14/14	0%	-	5.85	6.195	6.624	6.67	0.6129	0.7829	0.1339	NA	pH units	N	0	0	No	No	Decreasing	Normal	4.59	Y	2.77, 8.93		N
WLF-A1-3	14/14	0%	-	4.21	4.17	4.502	4.58	0.0299	0.1729	0.04103	NA	pH units	N	0	0	No	No	Stable	Normal	4.32	Y	3.53, 4.9		N
WLF-A1-4	14/14	0%	-	6.37	6.41	6.662	6.74	0.06095	0.2469	0.03873	NA	pH units	N	0	0	No	No	Stable	Normal	6.03	Y	5.4, 7.34		N.
WLF-A1-5	14/14	0%	-	6.91	6.885	7.044	7.07	0.006457	0.08036	0.01164	NA	pH units	N	0	0	No	No	Stable	Normal	6.76	Υ	6.59, 7.22		N
							CCR App	endix-III: Sulfate	(mg/L)															
WAP-07	15/15	0%	-	641	485	1335	1440	204600	452.3	0.7051	NA	mg/L	N	0	0	No	No	Decreasing	Normal	1380	Y	2269	2268650	N
WLF-A1-1	14/14	0%	-	892	960	1064	1070	35730	189	0.2119	NA	mg/L	N	0	0	No	No	Decreasing	Non-parametric	564	Y	1070	1070000	N
WLF-A1-2	13/13	0%	-	223	101	609.8	1040	73690	271.5	1.219	NA	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	82.1	Y	1040	1040000	N
WLF-A1-3	14/14	0%	-	77.3	76.65	159.4	160	1533	39.15	0.5068	NA	mg/L	N	0	0	Yes	No	Stable	Non-parametric	66.8	Υ	160	160000	N
WLF-A1-4	14/14	0%	-	151	118	287.4	366	6779	82.33	0.5443	NA	mg/L	N	0	0	No	No	Stable	Normal	69.2	Y	453	452715	N
WLF-A1-5	14/14	0%	-	384	374	522.3	575	8795	93.78	0.2444	NA	mg/L	N	0	0	No	No	Stable	Normal	465	Y	727	727154	N
						CCR A	Appendix-III: T	otal Dissolved So	lids (TDS) (mg/	L)														
WAP-07	15/15	0%	-	1100	851.2	2200	2296	525400	724.8	0.6569	NA	mg/L	N	0	0	No	No	Stable	Normal	820	Υ	3711	3711020	N
WLF-A1-1	14/14	0%	-	1940	2112	2423	2480	187600	433.1	0.2233	NA	mg/L	N	0	0	No	No	Decreasing	Normal	1222	Υ	3525	3525470	N
WLF-A1-2	14/14	0%	-	403	394.7	729.1	890	62880	250.8	0.6218	NA	mg/L	N	0	0	No	No	Stable	Normal	133.8	Υ	1321	1321370	N
WLF-A1-3	14/14	0%	-	115	104.3	171.4	241.2	1614	40.17	0.3509	NA	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	96.25	Y	241	241200	N
WLF-A1-4	14/14	0%	-	454	460.6	663.2	755	21590	146.9	0.324	NA	mg/L	N	0	0	No	No	Stable	Normal	280	Y	992	991586	N
	14/14	0%		1060	1124	1272	1310	35540	188.5	0.1777	NA	mg/L	N	0	0	No	No	Stable	Normal	1338	γ	1751	1751320	ŇĬ

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#### **TECHNICAL MEMORANDUM**

August 1, 2022 File No. 132892-014

SUBJECT: Statistical Evaluation of the March 2022 Semiannual Groundwater Assessment

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

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February 2022 semiannual assessment monitoring event for the Closed Unit 2 Slurry 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 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 provided in Table I.

#### STATISTICAL EVALUATION

The Rule provides four specific options for statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4); SC regulations R.61-107.19 Part V, Subpart E, Section 258.53.g) represents an 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. The most recent groundwater sampling event from each compliance well was compared to the corresponding GWPS to determine if an SSL existed. The results of the statistical are presented in the Table I.

South Carolina Public Service Authority (Santee Cooper) August 1, 2022 Page 2

The TL methods were 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 an SSL was present. The LCL is the lower end of the confident 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 that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

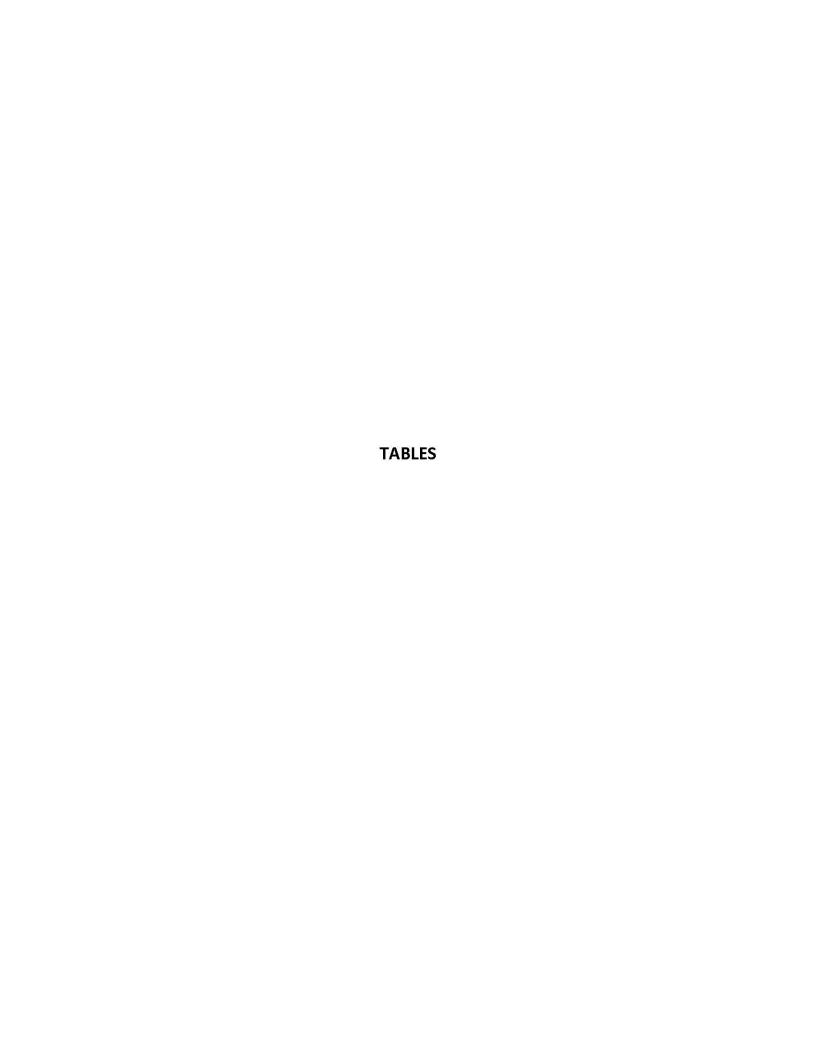
The groundwater analytical results for each sampling event from the background sample location (WAP-1 and WBW-1) were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. 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 March 2022 semiannual assessment monitoring event were compared to their respective GWPS (Table I). A sample concentration greater than the GWPS is considered to represent an SSL. Based on the results from previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for the downgradient wells and constituents. Consistent with previous statistical evaluations, SSLs above GWPS were not identified, and as a result the Closed Unit 2 Slurry Pond will remain in assessment monitoring.

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





SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION
MARCH 2022 MONITORING EVENT
WINYAH GENERATING STATION

CLOSED UNIT 2 SLURRY POND

																					Inter-well An	alysis		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*	March 2022 Concentration (mg/L)	Detect?	Upper Tolerance Limit (mg/L)	SSI	(Higher of MCL/RSL or Upper Tolerance Limit) mg/L	SS
						CC	R Appendix-IV	: Antimony, Tota	l (mg/L)				<u> </u>				100								
WBW-A1-1	0/11	100%	0.005-0.025	0.00682	0.005	0.015		0.00003636	0.00603	0.8844	0.006	mg/L	N	0	1	NA	NA	NA	NA			0.025		0.025	
WAP-07	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		Ν		N
WLF-A1-1	0/11	100%	0.005-0.025	0.00682	0.005	0.015		0.00003636	0.00603	0.8844	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N
WLF-A1-2	0/11	100%	0.005-0.025	0.00682	0.005	0.015		0.00003636	0.00603	0.8844	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N
WLF-A1-3	0/11	100%	0.005-0.025	0.00682	0.005	0.015		0.00003636	0.00603	0.8844	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N
WLF-A1-4	0/11	100%	0.005-0.025	0.00682	0.005	0.015		0.00003636	0.00603	0.8844	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		- N
WLF-A1-5	0/11	100%	0.005-0.025	0.00682	0.005	0.015		0.00003636	0.00603	0.8844	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N
							CR Appendix-I	V: Arsenic, Total				Property Co.	-	-			The First Control							With death of the Control of the Con	4
WBW-A1-1	0/12	100%	0.003-0.005	0.00483	0.005	0.005		3.333E-07	0.0005774	0.1195	0.01	mg/L	N	0	0	NA	NA	NA	NA	et a second	4000	0.005		0.010	
WAP-07	1/16	94%	0.005-0.005	0.00489	0.005	0.005	0.0033	1.806E-07	0.000425	0.08685	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.0033	Y		N		
WLF-A1-1	0/11	100%	0.003-0.005	0.00482	0.005	0.005		3.636E-07	0.000603	0.1252	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.0030	N		N		N
WLF-A1-2	0/11	100%	0.003-0.005	0.00482	0.005	0.005	0.0000	3.636E-07	0.000603	0.1252	0.01	mg/L	N N	0	0	NA	NA	NA Chala	NA.	0.0030	N		N N		<u> </u>
WLF-A1-3	6/11	45%	0.005-0.005	0.00601	0.005	0.00905	0.0099	0.00000367	0.001916	0.3189	0.01	mg/L	N N	0	0	No	No	Stable	Normal	0.0032	Y		N		N
WLF-A1-4	0/11	100%	0.003-0.005	0.00482	0.005	0.005		3.636E-07	0.000603	0.1252	0.01	mg/L	IN	0	0	NA.	NA.	NA NA	NA NA	0.0030	N		N		N
WLF-A1-5	0/11	100%	0.003-0.005	0.00482	0.005	0.005	CD Ammondia	3.636E-07	0.000603	0.1252	0.01	mg/L	N.	U	U	NA	NA	NA	NA	0.0030	N		- N		I. N
AUDIAU A1 1	4.474.4	00/	T ex	0.0002	0.00275	200 at 10.30 at 10.00 a	2007023	V: Barium, Total (		0.1524	3	11	N	0	^	Ne	Ne	Chalala	Nermal			0.1145		2.000	
VBW-A1-1	14/14	0%	-	0.0882	0.08235	0.112	0.114	0.0002052	0.01433	0.1624	2	mg/L	N N	0	0	No	No	Stable	Normal	0.035		0.1145	N	2.000	
WAP-07	16/16	0%	-	0.0297	0.0309	0.04372	0.0537	0.00009103	0.009541	0.3215	2	mg/L	N	0	199	Yes	No	Stable	Normal	0.035	Y		N		
VLF-A1-1	13/13	0%	<del>-</del>	0.0367	0.0349	0.04924	0.0496	0.00005265	0.007256	0.1978	2	mg/L	IN N	0	0	No	No	Decreasing		0.035	Y		N		
VLF-A1-2	13/13	0%	-	0.0478	0.0507	0.06426	0.0663	0.0002166	0.01472	0.3081	2	mg/L	IN N	0		No	No	Stable	Normal	0.055	Y		IN N		-
VLF-A1-3	13/13	0%	-	0.0343	0.035	0.03996	0.0405	0.00002356	0.004854	0.1414	2	mg/L	N	0	0	No	No	Stable	Normal	0.025	Y		IN N		
VLF-A1-4	13/13	0%	-	0.0419 0.0451	0.0387 0.0467	0.06252 0.05148	0.0792 0.0534	0.0001637	0.0128 0.005668	0.3053 0.1258	2	mg/L	N N	0	0	Yes	No	Stable	Non-parametric	0.030	Y		N N		-
WLF-A1-5	13/13	0%		0.0451	0.0467			0.00003213 : Beryllium, Total		0.1256	: <u>*</u> :	mg/L	IN	U	U	INO	No	Stable	Normal	0.034	Y		IN		1
VBW-A1-1	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005	k Appendix-iv	. Beryllium, Total		0	0.004	ma/l	N	0	0	NIA	NA.	NA	NA.			0.0005		0.004	
WAP-07	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004		N N	0	0	NA.	NA NA	NA NA	NA NA	0.0005	NI	0.0003	N	0.004	N
WLF-A1-1	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005	-	0	0	0	0.004	mg/L	N N	0	0	NA NA	NA NA	NA NA	NA NA	0.0005	N		N.		1
NLF-A1-1 NLF-A1-2	0/11	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 NA	NA NA	0.0005	N		N		1
WLF-A1-2 WLF-A1-3	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N N	0	0	NA NA	NA NA	NA NA	NA NA	0.0005	N		N.		1
WLF-A1-3 WLF-A1-4	0/11	100%	0.0005-0.0005	0.0003	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA.	NA NA	NA NA	NA NA	0.0005	N		N		
WLF-A1-4 WLF-A1-5	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L mg/L	N	0	0	NA NA	NA NA	NA NA	NA NA	0.0005	N N		N N		
MCL-WT-D	0/11	100%	0.0003-0.0003	0.0003	0.0003	1	P Annandiy-IV	: Cadmium, Total	/ma/1)	U	0.004	IIIg/L	N.	U	U	INA:	NA:	INA	I DA	0.0005	N		-11/1		
VBW-A1-1	0/12	100%	0.0005-0.002	0.000625	0.0005	0.001175	Appelluix-IV	1.875E-07	0.000433	0.6928	0.005	mg/L	N	0	0	NA.	NA.	NA	NA			0.002		0.005	
WAP-07	0/12	100%	0.0005-0.002	0.000594	0.0005	0.000175		1.406E-07	0.000433	0.6316	0.005	mg/L	N	0	0	NA.	NA.	NA NA	NA NA	0.0005	N	0.002	N	0.005	N
WLF-A1-1	0/16 0/11	100%	0.0005-0.002	0.0005	0.0005	0.000873		0	0.000373	0.0310	0.005	mg/L	N	0	0	NA.	NA NA	NA NA	NA NA	0.0005	N		N		N
WLF-A1-2	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA.	NA.	NA NA	NA NA	0.0005	N		N		N
WLF-A1-3	1/11	91%	0.0005-0.0005	0.0005	0.0005	0.0003	0.00077	6.627E-09	0.00008141	0.1552	0.005	mg/L	N	0	0	NA.	NA NA	NA NA	NA NA	0.0005	N		N		N
VLF-A1-4	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005	0.00077	0.0272-03	0.0000141	0.1332	0.005	mg/L	N	0	0	NA.	NA.	NA NA	NA NA	0.0005	N		N		,
VLF-A1-5	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA.	NA.	NA NA	NA NA	0.0005	N		N		
ACI-MI-D	0/11	100%	0.0003-0.0003	0.0005	0.0003		R Annandiv-IV	: Chromium, Tota	/ma/  )	Ų,	0.005	IIIg/L	14	U		INPA:	N/A	IN/A	19/4	0.0005	IN.		:1.9:		
/BW-A1-1	0/12	100%	0.005-0.01	0.00542	0.005	0.00725	n Appelluix-IV	0.000002083	0.001443	0.2665	0.1	mg/L	N	0	0	NA.	NA.	NA.	NA			0.01		0.100	
WAP-07	0/12	100%	0.005-0.01	0.00542	0.005	0.00725		0.000002083	0.001443	0.2863	0.1		N N	0	0	NA.	NA NA	NA NA	NA NA	0.005	N	0.01	N	0.100	l l
WLF-A1-1	-	100%	0.005-0.01	0.00531	0.005	0.00623	-	1.084E-20	1.041E-10	2.083E-08	0.1	mg/L	NI NI	0	0	NA NA	NA NA	NA NA	NA NA	1	1		N		1
VLF-A1-1 VLF-A1-2	0/11	100%	0.005-0.005	0.005	0.005	0.005		1.084E-20 1.084E-20	1.041E-10 1.041E-10	2.083E-08 2.083E-08	0.1	mg/L	N NI	0	0	NA NA	NA NA	NA NA	NA NA	0.005 0.005	N		N N		1
VLF-A1-2 VLF-A1-3	0/11	100%	0.005-0.005	0.005	0.005	0.005		1.084E-20	1.041E-10 1.041E-10	2.083E-08	12222.30	mg/L	IN N	0	0	NA	NA NA	NA NA	1000000		N		N		
VLF-A1-3 VLF-A1-4	0/11	100%	0.005-0.005	0.005	0.005	0.005		1.084E-20	1.041E-10 1.041E-10	2.083E-08	0.1	mg/L	N N	0	0	NA.	NA NA	2470 10	NA NA	0.005	N		N.		
	0/11			-				1.084E-20				mg/L	N N	0	0	NA.	-	NA NA	NA NA	0.005	N		N N		-
VLF-A1-5	0/11	100%	0.005-0.005	0.005	0.005	0.005	CR Annendiy	I.U84E-2U IV: Cobalt, Total (	1.041E-10	2.083E-08	0.1	mg/L	IV.	U	U	INA	NA	NA	NA	0.005	N		IN		-
'BW-A1-1	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005	Appelluix-	n Cobait, Total (	<b>Б/ -)</b>	0	0.006	mg/l	N	0	0	NA	. NA	NA	NA NA			0.0005		0.006	
WAP-07	100000000000000000000000000000000000000	77%	0.0005-0.0005	0.0005	0.0005	0.0005	0.0007	3.364E-09	0.000058	0.1112	0.006	mg/L	N NI	0	0	NA.	NA:	NA NA	NA NA	0.0007	Y	0.0003	N	0.006	
/LF-A1-1	3/13		0.0005-0.0005	0.000322	0.0005	0.000628	0.0007	0	۵٬۵۵۵۵۵	0.1112	0.006	mg/L	N	0	0	NA.	NA.	NA NA	NA NA	0.0007			IN N		-
	1/11	91%					0.0005	0	0	0	0.006	mg/L	NI NI	0	0	NA NA	NA NA	NA NA	NA NA	1	N		IN N		-
NLF-A1-2	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005	0.00143	7.785E-08	0.000279			mg/L	NI NI		0				1000	0.0005	N		IN N		1
WLF-A1-3	3/11	73%	0.0005-0.0005	0.000594	0.0005	0.001015	0.00143		0.000279	0.47	0.006	mg/L	N N	0		NA.	NA.	NA NA	NA NA	0.0014	Y		IN N		N N
WLF-A1-4	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	Ū	0	0.006	mg/L	IN	0	0	NA.	NA.	NA NA	NA	0.0005	N		IN.		N.
WLF-A1-5	0/11	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA.	NA.	NA	NA	0.0005	N		N		No

SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION
MARCH 2022 MONITORING EVENT
WINYAH GENERATING STATION

CLOSED UNIT 2 SLURRY POND

			-																		Inter-well An	alysis		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*	March 2022 Concentration (mg/L)	Detect?	Upper Tolerance Limit (mg/L)	SSI	(Higher of MCL/RSL or Upper Tolerance Limit) mg/L	SSL
							CCR Appendix	x-IV: Fluoride (m	g/L)										-						
WBW-A1-1	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA	NA.	NA	NA			0.1		4.000	
WAP-07	0/14	100%	0.1-0.1	0.1	0.1	0.1		2.135E-18	1.461E-09	1.461E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.100	N		N		No
WLF-A1-1	0/15	100%	0.1-0.1	0.1	0.1	0.1	discontinue	1.983E-18	1.408E-09	1.408E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.100	N		N		No
WLF-A1-2	4/15	73%	0.1-0.1	0.107	0.1	0.133	0.14	0.0001667	0.01291	0.121	4	mg/L	N	0	0	NA.	NA	NA	NA	0.100	N		N		No
WLF-A1-3 WLF-A1-4	1/15	93% 100%	0.1-0.1	0.103 0.1	0.1	0.115	0.15	0.0001667 1.983E-18	0.01291 1.408E-09	0.1249 1.408E-08	4	mg/L	N N	0	0	NA NA	NA NA	NA NA	NA NA	0.150	Y N		N		No No
WLF-A1-4 WLF-A1-5	0/15 1/15	93%	0.1-0.1	0.101	0.1	0.1	0.11	0.000006667	0.002582	0.02565	4	mg/L mg/L	N	0	0	NA NA	NA.	NA NA	NA NA	0.100	N N		N		No
	1,13		512 512	3.1	0.2	250000-250000		IV: Lead, Total (		3.3233		6/ =				(8,34,15)	334.15		1973	0.100					
WBW-A1-1	0/12	100%	0.001-0.0025	0.00121	0.001	0.002225		2.481E-07	0.0004981	0.4122	0.015	mg/L	N	0	0	NA	NA	NA	NA			0.0025		0.015	
WAP-07	1/16	94%	0.001-0.0025	0.00116	0.001	0.002125	0.0011	1.892E-07	0.0004349	0.3741	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N		N		No
WLF-A1-1	0/11	100%	0.001-0.0025	0.00114	0.001	0.00175		2.045E-07	0.0004523	0.398	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N		N		No
WLF-A1-2	0/11	100%	0.001-0.0025	0.00114	0.001	0.00175		2.045E-07	0.0004523	0.398	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N		N		No
WLF-A1-3	0/11	100%	0.001-0.0025	0.00114	0.001	0.00175		2.045E-07	0.0004523	0.398	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N		N		No
WLF-A1-4	0/11	100%	0.001-0.0025	0.00114	0.001	0.00175		2.045E-07 2.045E-07	0.0004523 0.0004523	0.398	0.015	mg/L	N	0	0	NA.	NA.	NA NA	NA	0.0025	N		N		No No
WLF-A1-5	0/11	100%	0.001-0.0025	0.00114	0.001	0.00175	'R Annendiy-IV	2.045E-07 /: Lithium, Total		0.398	0.015	mg/L	IN.	U	U	NA NA	NA	NA	NA NA	0.0025	N		- IV		No
WBW-A1-1	0/11	100%	0.005-0.01	0.00955	0.01	0.01	n Appelluix-IV	0.000002273	0.001508	0.1579	0.04	mg/L	N	0	0	NA	NA.	NA	. NA			0.01		0.040	1
WAP-07	0/13	100%	0.005-0.01	0.00962	0.01	0.01		0.000001923	0.001387	0.1442	0.04	mg/L	N	0	0	NA.	NA	NA	NA	0.005	N	UIUI	N	0.010	No
WLF-A1-1	0/11	100%	0.01-0.01	0.01	0.01	0.01		4.819E-20	2.195E-10	2.195E-08	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
WLF-A1-2	0/11	100%	0.01-0.02	0.011	0.01	0.0155		0.00001	0.003162	0.2875	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
WLF-A1-3	0/11	100%	0.01-0.01	0.01	0.01	0.01		4.819E-20	2.195E-10	2.195E-08	0.04	mg/L	N	0	0	NA.	NA	NA	NA	0.005	N		N		No
WLF-A1-4	0/11	100%	0.01-0.01	0.01	0.01	0.01		4.819E-20	2.195E-10	2.195E-08	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
WLF-A1-5	0/11	100%	0.01-0.01	0.01	0.01	0.01		4.819E-20	2.195E-10	2.195E-08	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
1315111 44 4		******					R Appendix-IV	: Mercury, Total	(mg/L)	_						***		20.00						2110012121	4
WBW-A1-1 WAP-07	0/11	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.	NA NA	0.0000	N.C.	0.0002	NE	0.002	No
WLF-A1-1	0/13 0/11	100% 100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L mg/L	N N	0	0	NA NA	NA NA	NA NA	NA NA	0.0002	N N		N.		No No
WLF-A1-2	0/11	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	NA NA	0.0002	N		N		No
WLF-A1-3	0/11	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
WLF-A1-4	0/11	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		No
WLF-A1-5	0/11	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		No
						CCR /	Appendix-IV: N	/lolybdenum, To	tal (mg/L)																
WBW-A1-1	0/11	100%	0.005-0.05	0.0132	0.01	0.03		0.0001514	0.0123	0.9333	0.1	mg/L	N	0	0	NA	NA	NA	NA			0.05		0.100	
WAP-07	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		No
WLF-A1-1	0/11	100%	0.005-0.05	0.0132	0.01	0.03		0.0001514	0.0123	0.9333	0.1	mg/L	N	0	0	NA.	NA	NA	NA	0.005	N		N		No
WLF-A1-2 WLF-A1-3	0/11	100% 100%	0.005-0.01 0.005-0.01	0.00955 0.00955	0.01	0.01		0.000002273 0.000002273	0.001508 0.001508	0.1579 0.1579	0.1	mg/L	N	0	0	NA NA	NA NA	NA NA	NA NA	0.005	N		N N		No No
WLF-A1-3	0/11 0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.1	mg/L mg/L	N	0	0	NA NA	NA NA	NA NA	NA NA	0.005 0.005	N		N		No
WLF-A1-5	0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.1	mg/L	N	0	0	NA.	NA.	NA	NA.	0.005	N		N		No
	-,		500000000000000000000000000000000000000		1,000 (0.00)	CCR	Appendix-IV: F	Radium-226 & 2						1											
WBW-A1-1	10/13	23%	4-4	3.55	4	4.926	5.07	1.563	1.25	0.3525	5	pCi/L	Υ	1	0	Yes	No	Stable	Normal			5.86		5.86	
WAP-07	7/13	46%	4-4	3.95	4	5.088	5.31	1.016	1.008	0.2549	5	pCi/L	Υ	1	0	Yes	No	Stable	Normal	4.94	Υ		N		No
WLF-A1-1	8/13	38%	4-4	3.39	4	4.274	4.34	1.039	1.019	0.3009	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	3.47	Υ		N		No
WLF-A1-2	7/13	46%	4-4	3.57	4	4.774	5.92	1.312	1.145	0.3208	-5	pCi/L	Y	1	0	No	No	Stable	Normal	3.13	Υ		N		No
WLF-A1-3	12/13	8%	4-4	3.87	4.24	5.196	5.25	1.936	1.391	0.3591	5 -	pCi/L	Υ	2	0	Yes	No	Stable	Normal	4.67	Y		N		No
WLF-A1-4	7/13	46%	4-4	3.13	4	4.228	4.51	1.954	1.398	0.4465	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	2.81	Y		N		No
WLF-A1-5	8/13	38%	4-4	3.02	4	4.322 CCI	4.37 R Annendix-IV:	2.202 : Selenium, Tota	1.484	0.4915	- 5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	1.45	Υ		IN		No
WBW-A1-1	0/12	100%	0.005-0.01	0.00917	0.01	0.01	зррспик-ту.	0.000003788		0.2123	0.05	mg/L	N	0	0	NA	NA	NA	NA			0.01		0.050	
WAP-07	0/12	100%	0.005-0.01	0.00937	0.01	0.01		0.000003788	0.001708	0.1822	0.05	mg/L	N	0	0	NA	NA.	NA	NA	0.005	N	3,02	N	5.050	No
WLF-A1-1	0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
WLF-A1-2	0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
WLF-A1-3	0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.05	mg/L	N	0	0	NA	NA.	NA	NA	0.005	N		N		No
WLF-A1-4	0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No
WLF-A1-5	0/11	100%	0.005-0.01	0.00955	0.01	0.01		0.000002273	0.001508	0.1579	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		No

PAGE 3 OF 3

SUMMARY OF ASSESSMENT MONITORING STATISTICAL EVALUATION MARCH 2022 MONITORING EVENT

WINYAH GENERATING STATION CLOSED UNIT 2 SLURRY POND

														0	-						Inter-well Ar	alysis		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*	March 2022 Concentration (mg/L)	Detect?	Upper Tolerance Limit (mg/L)	SSI	(Higher of MCL/RSL or Upper Tolerance Limit) mg/L	SS
						cc	R Appendix-IV:	: Thallium, Tota	ıl (mg/L)																
WBW-A1-1	0/11	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001		0.002	
WAP-07	0/13	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
WLF-A1-1	0/11	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
WLF-A1-2	0/11	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
WLF-A1-3	0/11	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		Ň		N
WLF-A1-4	0/11	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		No
WLF-A1-5	0/11	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		No



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

#### **TECHNICAL MEMORANDUM**

December 30, 2022 File No. 132892-014

SUBJECT: Statistical Evaluation of the Summer 2022 Semiannual Groundwater Assessment

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

Pursuant to Title 40 Code of Federal Regulations 40 CFR §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the summer 2022 semiannual assessment monitoring event for Winyah Generating Station (WGS) Closed Unit 2 Slurry Pond. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

#### **BACKGROUND**

Recent analytical testing results were evaluated to determine if statistically significant levels (SSLs) exist above Groundwater Protection Standards (GWPS) of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background wells. There were no SSLs identified during the last sampling event.

#### STATISTICAL EVALUATION

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

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

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

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

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

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

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

The 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**

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table I). Based on the results from previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for the downgradient wells and constituents. Consistent with previous statistical evaluations, SSLs above GWPS were not identified, and as a result, the Closed Unit 2 Slurry Pond will remain in assessment monitoring.

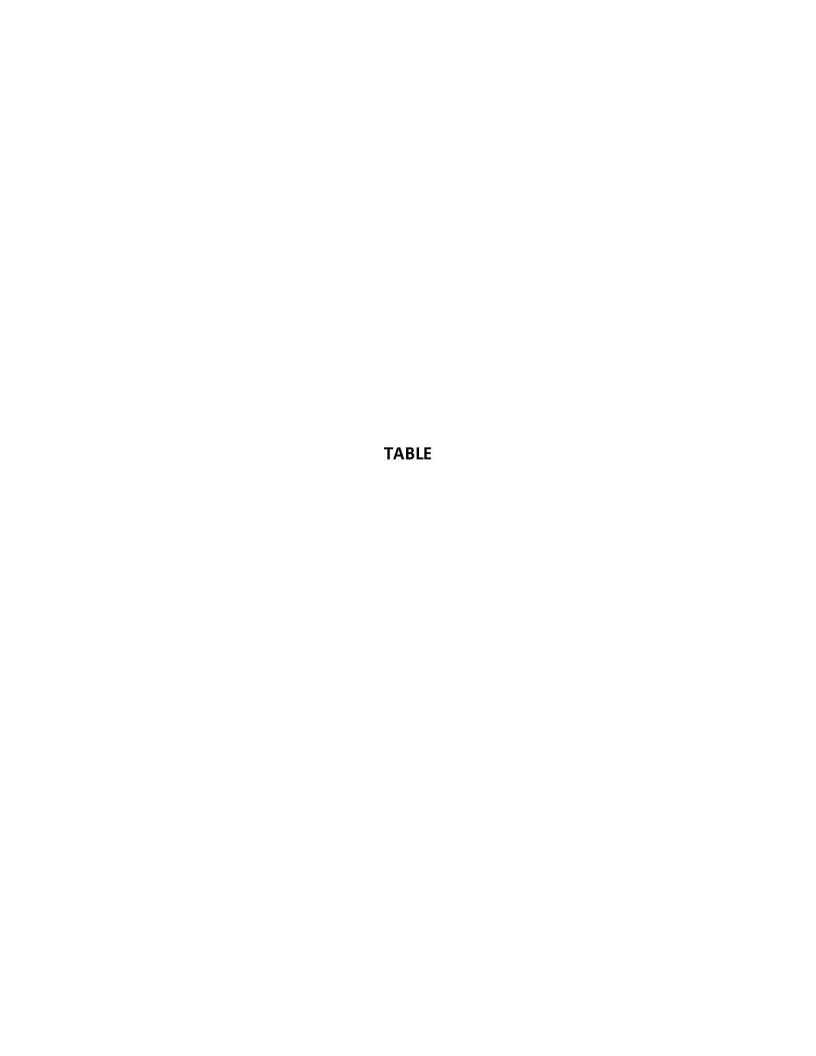
#### **Enclosures:**

Table I – WGS Unit 2 Slurry 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 UNIT 2 SLURRY POND SUMMER 2022 SEMIANNUAL ASSESSMENT MONITORING DATA

																						Inter-well	Anaiysis			
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 Group	Distribution Well*	July 2022 Concentration (mg/L)	Detect? 1	Upper Folerance Limit (mg/L)	SSI	GWPS (Higher of MCL/RSL or Upper Tolerance Limit) mg/L	SSL 'L
	T T		C MA THE WAY AND THE PARTY	35 AMARIANA AMARI		May 20 102000	CCR Appen	ndix-IV: Antimon			and amount on	- SSII														
/BW-A1-1	0/12	100%	0.005-0.025	0.00667	0.005	0.014		0.00003333	0.005774	0.866	0.006	mg/L	N	0	1	NA	NA.	NA	NA	NA			0.025		0.025	-
WAP-07	0/14	100%	0.002-0.025	0.00621 0.00667	0.005	0.012		0.00002987	0.005466 0.005774	0.8795	0.006	mg/L	N N	0	1	NA	NA.	NA.		NA	0.005	N		N		No
VLF-A1-1 VLF-A1-2	0/12 0/12	100%	0.005-0.025 0.005-0.025	0.00667	0.005	0.014		0.00003333	0.005774	0.866 0.866	0.006	mg/L mg/L	N N	0	1	NA NA	NA NA	NA NA		NA NA	0.005	N		N		No No
VLF-A1-3	0/12	100%	0.005-0.025	0.00667	0.005	0.014		0.00003333	0.005774	0.866	0.006	mg/L	N	0	1	NA	NA.	NA.		NA	0.005	N		N		No
VLF-A1-4	0/12	100%	0.005-0.025	0.00667	0.005	0.014		0.00003333	0.005774	0.866	0.006	mg/L	N	0	1	NA	NA.	NA.		NA	0.005	N		N		No
VLF-A1-5	0/12	100%	0.005-0.025	0.00667	0.005	0.014		0.00003333	0.005774	0.866	0.006	mg/L	N	0	1	NA	NA	NA.		NA	0.005	N		N		No
	7,22						CCR Appe	endix-IV: Arsenic								-2					5.555					
BW-A1-1	0/13	100%	0.003-0.005	0.00469	0.005	0.005	5500	5.641E-07	0.0007511	0.1601	0.01	mg/L	N	0	0	NA	NA	NA	NA	NA			0.005		0.010	
WAP-07	1/17	94%	0.003-0.005	0.00478	0.005	0.005	0.0033	3.803E-07	0.0006167	0.1289	0.01	mg/L	N	0	0	NA	NA	NA		NA	0.0030	N		N		No
WLF-A1-1	0/12	100%	0.003-0.005	0.00483	0.005	0.005		3.333E-07	0.0005774	0.1195	0.01	mg/L	N	0	0	NA	NA	NA		NA	0.0050	N		N		No
VLF-A1-2	0/12	100%	0.003-0.005	0.00467	0.005	0.005		6.061E-07	0.0007785	0.1668	0.01	mg/L	N	0	0	NA	NA	NA		NA	0.0030	N		N		No
WLF-A1-3	7/12	42%	0.005-0.005	0.00609	0.00532	0.008965	0.0099	0.000003418	0.001849	0.3036	0.01	mg/L	N	0	0	No	No	Stable		Normal	0.0070	Y		Υ		No
VLF-A1-4	0/12	100%	0.003-0.005	0.00467	0.005	0.005		6.061E-07	0.0007785	0.1668	0.01	mg/L	N	0	0	NA	NA.	NA		NA	0.0030	N		Ν		No
WLF-A1-5	0/12	100%	0.003-0.005	0.00467	0.005	0.005		6.061E-07	0.0007785	0.1668	0.01	mg/L	N	0	0	NA	NA	NA		NA	0.0030	N		N		No
			T			1	1000	endix-IV: Barium				1														4
/BW-A1-1	15/15	0%	-	0.091	0.0836	0.1188	0.13	0.0003071	0.01752	0.1926	2	mg/L	N	0	0	No	No	Stable	Normal	Normal			0.1145		2.000	
WAP-07	17/17	0%	-	0.0302	0.0316	0.04306	0.0537	0.00009045	0.009511	0.3146	2	mg/L	N	0	0	No	No	Stable		Normal	0.039	Y		N		No
VLF-A1-1	14/14	0%	-	0.0367	0.03515	0.04921	0.0496	0.00004861	0.006972	0.1899	2	mg/L	N	0	0	No	No	Decreasing		Normal	0.037	Y		N		N
NLF-A1-2	14/14	0%	-	0.048	0.05115	0.06409	0.0663	0.000201	0.01418	0.2951	2	mg/L	N	0	0	No	No	Stable		Normal	0.052	Y		N		No.
WLF-A1-3	14/14	0%	-	0.0344	0.0351	0.03991	0.0405	0.00002195	0.004685	0.136	2	mg/L	N N	0	0	Yes	No	Decreasing		Normal	0.036	Y		N <sub>b1</sub>		N
WLF-A1-4 WLF-A1-5	14/14	0%	<u> </u>	0.0415 0.0447	0.03785 0.0457	0.06113	0.0792	0.0001536	0.0124	0.2987 0.1264	2	mg/L	N N	0	0	Yes	No	Stable		Non-parametric	0.036	Y		N		No
VLF-A1-5	14/14	0%	-	0.0447	0.0457	0.05132	0.0534	0.00003186 ndix-IV: Berylliun	0.005645	0.1264	2	mg/L	IN.	U	U	No	INO	Decreasing		Normal	0.040	Y		N		No
BW-A1-1	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005	сск Арреі	O Deryman	n, rotal (mg/t)	0	0.004	mg/L	N	0	n	NA	NA	NA I	NA	NA			0.0005		0.004	4
WAP-07	0/12	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	NA NA	19/5	NA	0.0005	N	0.0003	N	0.004	No
VLF-A1-1	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		NA	0.0005	N		N		No
VLF-A1-2	0/12	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		No
VLF-A1-3	0/12	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		No
VLF-A1-4	0/12	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		No
WLF-A1-5	0/12	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		No
			·			1.	CCR Apper	ndix-IV: Cadmiun	n, Total (mg/L)																	A
WBW-A1-1	0/13	100%	0.0005-0.002	0.000615	0.0005	0.0011		1.731E-07	0.000416	0.676	0.005	mg/L	N	0	0	NA	NA	NA	NA	NA			0.002		0.005	
WAP-07	0/17	100%	0.0005-0.002	0.000588	0.0005	0.0008		1.324E-07	0.0003638	0.6185	0.005	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		N		No
WLF-A1-1	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		Ν		No
WLF-A1-2	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		N		No
WLF-A1-3	1/12	92%	0.0005-0.0005	0.000523	0.0005	0.0006215	0.00077	6.075E-09	0.00007794	0.1492	0.005	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		N		No
WLF-A1-4	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		N		No
WLF-A1-5	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005	ļ	0	0	0	0.005	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		N		No
	No. of Assessment			1			CCR Appen	ndix-IV: Chromiui				1500000				200.00									Additional	4
VBW-A1-1	0/13	100%	0.005-0.01	0.00538	0.005	0.007		0.000001923	0.001387	0.2575	0.1	mg/L	N	0	0	NA	NA	NA	NA	NA	Sec. Security	WO.	0.01		0.100	
WAP-07	0/17	100%	0.005-0.01	0.00529	0.005	0.006		0.000001471	0.001213	0.2291	0.1	mg/L	N	0	0	NA	NA.	NA NA		NA	0.005	N		N		No
WLF-A1-1	0/12	100%	0.005-0.005	0.005	0.005	0.005		1.478E-20	1.216E-10	2.432E-08	0.1	mg/L	IN N	0	0	NA NA	NA.	NA NA		NA	0.005	N		N N		No
VLF-A1-2 VLF-A1-3	0/12	100%	0.005-0.005 0.005-0.005	0.005	0.005	0.005		1.478E-20 1.478E-20	1.216E-10 1.216E-10	2.432E-08 2.432E-08	0.1	mg/L	IN N	0	0	NA NA	NA NA	NA NA		NA NA	0.005	N		N		No.
VLF-A1-3 VLF-A1-4	0/12 0/12	100%	0.005-0.005	0.005	0.005	0.005		1.478E-20	1.216E-10 1.216E-10	2.432E-08 2.432E-08	0.1	mg/L mg/L	N N	0	0	NA NA	NA NA	NA NA		NA NA	0.005	N		N		No.
VLF-A1-4 VLF-A1-5	0/12	100%	0.005-0.005	0.005	0.005	0.005		1.478E-20	1.216E-10	2.432E-08	0.1	mg/L	N N	0	0	NA	NA.	NA NA		NA	0.005	N		N		No
VLI ALS	0/12	100%	0.003 0.003	0.003	0.003	0.003	CCR Appe	endix-IV: Cobalt,		2.4322 00	5.1	IIIB/ E			J	12.00	13//3/	107		A CONTRACTOR OF THE PARTY OF TH	0.003	IN IN		32.20		198
/BW-A1-1	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	NA			0.0005		0.006	
WAP-07	3/14	79%	0.0005-0.0005	0.00052	0.0005	0.000622	0.0007	3.138E-09	0.00005602	0.1077	0.006	mg/L	N	0	0	NA	NA	NA	0.35.4	NA	0.0005	N	प्रकारिकस्मितिहरू।	N		No
VLF-A1-1	1/12	92%	0.0005-0.0005	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		No
WLF-A1-2	1/12	92%	0.0005-0.0005	0.000618	0.0005	0.001135	0.00191	1.657E-07	0.000407	0.6592	0.006	mg/L	N	0	0	NA	NA	NA		NA	0.0019	Y		Y		No
VLF-A1-3	4/12	67%	0.0005-0.0005	0.000618	0.0005	0.001133	0.00143	7.809E-08	0.0002794	0.4519	0.006	mg/L	N	0	0	Yes	No	NA		Non-parametric	0.0009	Y		Y		No
/LF-A1-4	0/12	100%	0.0005-0.0005	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
/LF-A1-5	0/12	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA		NA	0.0005	N		N		No
							CCR Ap	ppendix-IV: Fluo	ride (mg/L)																	
/BW-A1-1	0/16	100%	0.1-0.1	0.1	0.1	0.1		1.85E-18	1.36E-09	1.36E-08	4	mg/L	N	0	0	NA	NA	NA	NA	NA			0.1		4.000	
WAP-07	0/16	100%	0.1-0.1	0.1	0.1	0.1		1.85E-18	1.36E-09	1.36E-08	4	mg/L	N	0	0	NA	NA	NA		NA	0.100	N		N		N
/LF-A1-1	0/17	100%	0.1-0.1	0.1	0.1	0.1		0	0	0	4	mg/L	N	0	0	NA	NA	NA		NA	0.100	N		N		N
VLF-A1-2	4/17	76%	0.1-0.1	0.106	0.1	0.132	0.14	0.0001507	0.01228	0.116	4	mg/L	N	0	0	Yes	No	NA		NA	0.100	N		N		N
WLF-A1-3	1/17	94%	0.1-0.1	0.103	0.1	0.11	0.15	0.0001471	0.01213	0.1178	4	mg/L	N	0	0	NA	NA	NA		NA	0.100	N		N		No
WLF-A1-4	0/17	100%	0.1-0.1	0.1	0.1	0.1		0	0	0	4	mg/L	N	0	0	NA	NA	NA		NA	0.100	N		N		No
WLF-A1-5	1/17	94%	0.1-0.1	0.101	0.1	0.102	0.11	0.000005882	0.002425	0.02411	4	mg/L	N	0	0	NA	NA	NA		NA	0.100	N		N		No

HALEY & ALDRICH, INC. DECEMBER 2022

### TABLE I WGS UNIT 2 SLURRY POND SUMMER 2022 SEMIANNUAL ASSESSMENT MONITORING DATA

			_		1		_			-												Inter-wel	I Analysis			
cation 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 Group	Distribution Well*	July 2022 Concentration (mg/L)	Detect?	Upper Tolerance Limit (mg/L)	SSI	GWPS (Higher of MCL/RSL or Upper Tolerance Limit) mg/L	s
							CCR App	endix-IV: Lead, To	otal (mg/L)																	
N-A1-1	0/13	100%	0.001-0.01	0.00188	0.001	0.0055		0.000006173	0.002485	1.318	0.015	mg/L	N	0	0	NA	NA	NA	NA	NA			0.0025		0.015	
AP-07	1/17	94%	0.001-0.0025	0.00124	0.001	0.0025	0.0011	2.826E-07	0.0005316	0.4283	0.015	mg/L	N	0	0	NA	NA	NA		NA	0.0025	N		N		
F-A1-1	0/12	100%	0.001-0.01	0.00188	0.001	0.005875		0.000006733	0.002595	1.384	0.015	mg/L	N	0	0	NA	NA	NA		NA	0.0100	N		Υ		
LF-A1-2	0/12	100%	0.001-0.01	0.00188	0.001	0.005875		0.000006733	0.002595	1.384	0.015	mg/L	N	0	0	NA	NA	NA		NA	0.0100	N		Y		
LF-A1-3	0/12	100%	0.001-0.01	0.00188	0.001	0.005875		0.000006733	0.002595	1.384	0.015	mg/L	N	0	0	NA	NA	NA		NA	0.0100	N		Υ		
LF-A1-4	0/12	100%	0.001-0.01	0.00188	0.001	0.005875		0.000006733	0.002595	1.384	0.015	mg/L	N	0	0	NA	NA	NA.		NA	0.0100	N		Υ		
.F-A1-5	0/12	100%	0.001-0.01	0.00188	0.001	0.005875		0.000006733	0.002595	1.384	0.015	mg/L	N	0	0	NA	NA	NA		NA	0.0100	N		Υ		
						I.	CCR Appe	endix-IV: Lithium,	Total (mg/L)																	
SW-A1-1	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.04	mg/L	N	0	0	NA	NA	NA	NA	NA			0.01		0.040	
/AP-07	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	0.010	N		N		
LF-A1-1	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.04	mg/L	N	0	0	NA	NA.	NA.		NA	0.010	N		N		i i
LF-A1-2	0/12	100%	0.005-0.02	0.0104	0.01	0.0145		0.00001117	0.003343	0.3209	0.04	mg/L	N	0	0	NA	NA.	NA.		NA	0.010	N		N		
LF-A1-3		100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.003343	0.1506	0.04	mg/L	N N	0	0	NA	NA.	NA.		NA				N		Н
/LF-A1-3 /LF-A1-4	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.04		NI NI	0	0	NA NA	N/A	NA NA		NA NA	0.010	N		N		To Table
LF-A1-4 'LF-A1-5	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.04	mg/L	IN NI	0	^	NA	NA.	NA NA		NA NA	0.010	N		IN N		
rr-A1-2	0/12	100%	0.005-0.01	0.00958	0.01	0.01	CCD Avance			0.1506	0.04	mg/L	IN.	U	U	NA	IN/A	NA.		NA	0.010	N		IV.		
DV41 44 4	271.5	4000/	0.0000.0000	0.0000	0.0000	0.0000	сск Арре	ndix-IV: Mercury,	rotar(mg/L)		0.000				2	WYCKS	70.0	×1.0	507				0.0000			4
BW-A1-1	0/12	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	U	U	0.002	mg/L	N	U	0	NA	NA.	NA	NA	NA	2 0000	00	0.0002		0.002	
VAP-07	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		
/LF-A1-1	0/12	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		
LF-A1-2	0/12	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		
LF-A1-3	0/12	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		
'LF-A1-4	0/12	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		
LF-A1-5	0/12	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		
							CCR Append	ix-IV: Molybdenu	m, Total (mg/L	)																
3W-A1-1	0/12	100%	0.005-0.05	0.0129	0.01	0.028		0.0001384	0.01177	0.9109	0.1	mg/L	N	0	0	NA	NA	NA	NA	NA			0.05		0.100	
VAP-07	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		
'LF-A1-1	0/12	100%	0.005-0.05	0.0129	0.01	0.028		0.0001384	0.01177	0.9109	0.1	mg/L	N	0	0	NA	NA	NA		NA	0.010	N		N		
/LF-A1-2	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.1	mg/L	N	0	0	NA	NA	NA		NA	0.010	N		N		
LF-A1-3	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.1	mg/L	N	0	0	NA	NA	NA		NA	0.010	N		N		
/LF-A1-4	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.1	mg/L	N	0	0	NA	NA	NA.		NA	0.010	N		N		
LF-A1-5	0/12	100%	0.005-0.01	0.00958	0.01	0.01		0.000002083	0.001443	0.1506	0.1	mg/L	N	0	0	NA	NA	NA.		NA	0.010	N		N		
							CCR Append	dix-IV: Radium-220	6 & 228 (pCi/L)																	
BW-A1-1	11/14	21%	4-4	3.51	4	4.914	5.07	1.457	1.207	0.3434	5	pCi/L	Y	1	0	No	No	Stable	Normal	Normal			5.86		5.86	
VAP-07	8/14	43%	4-4	3.88	4	5.069	5.31	1.027	1.013	0.2615	5	pCi/L	Y	1	0	No	No	Stable		Normal	2.84	Y		N		
LF-A1-1	9/14	36%	4-4	3.2	4	4.268	4.34	1.451	1.205	0.3765	5	pCi/L	N	0	0	No	No	Decreasing		Non-parametric	0.76	Y		N		
LF-A1-2	8/14	43%	4-4	3.52	4	4.679	5.92	1.253	1.12	0.3185	5	pCi/L	Υ	1	0	No	No	Stable		Normal	2.80	Y		N		
LF-A1-3	13/14	7%	4-4	3.78	4.225	5.192	5.25	1.924	1.387	0.3673	5	pCi/L	Υ	2	0	No	No	Stable		Normal	2.49	Y		N		
LF-A1-4	8/14	43%	4-4	3.11	4	4.205	4.51	1.808	1.345	0.432	5	pCi/L	N	0	0	No	No	Decreasing		Non-parametric	2.88	Y		N		
LF-A1-5	9/14	36%	4-4	2.86	4	4.318	4.37	2.38	1.543	0.539	5	pCi/L	N N	0	0	No	No	Decreasing		Non-parametric	0.82	Y		N N		
. 71.3	3/14	30%		2.80	-	4.310		ndix-IV: Selenium,		0.555		pci/L		, ,	,	130	1000	Decreasing		Non-parametric	0.82	, II,		14		
3W-A1-1	0/17	100%	0.0025-0.01	0.00865	0.01	0.01	ССКАРРЕ	0.000006891	0.002625	0.3033	0.05	ma/l	N	0	0	NA	NA	NA	NA	NA			0.01		0.050	4
VAP-07	0/13		0.0025-0.01	0.00897		_		0.000005515	0.002323	0.3633		mg/L	N N	0	0	NA NA	NA NA	NA.	INA	NA NA	0.007	K1	0.01	N	0.050	
OCTUBRU INGIOW	0/17	100%		1,00000,0000,0000	0.01	0.01		The second secon	735-1410-735-1413-37-14		0.05	mg/L	IN NI	0	0	1.000	1000000				0.003	N		31(5)		
F-A1-1	0/12	100%	0.0025-0.01	0.00896	0.01	0.01		0.000006203	0.002491	0.278	0.05	mg/L	IN N	0	0	NA	NA NA	NA.		NA	0.003	N		N		-
F-A1-2	0/12	100%	0.0025-0.01	0.00896	0.01	0.01		0.000006203	0.002491	0.278	0.05	mg/L	N	0	0	NA	NA	NA		NA	0.003	N		N		-
.F-A1-3	0/12	100%	0.0025-0.01	0.00896	0.01	0.01		0.000006203	0.002491	0.278	0.05	mg/L	N	0	0	NA	NA	NA		NA	0.003	N		N		4-
-F-A1-4	0/12	100%	0.0025-0.01	0.00896	0.01	0.01		0.000006203	0.002491	0.278	0.05	mg/L	N	0	0	NA	NA	NA		NA	0.003	N		N		
F-A1-5	0/12	100%	0.0025-0.01	0.00896	0.01	0.01		0.000006203	0.002491	0.278	0.05	mg/L	N	0	0	NA	NA	NA		NA	0.003	N		N		
							CCR Appe	ndix-IV: Thallium,	Total (mg/L)					, .												4
W-A1-1	0/12	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	
/AP-07	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		
I F A 1 1	0/12	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		
LL-A1-1	0/12	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		
0 00 0000000	0/12			0.004	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA		NA	0.001	N		N		
/LF-A1-1 /LF-A1-2 /LF-A1-3	0/12	100%	0.001-0.001	0.001	0.001	0.001		1823																		4
/LF-A1-2		100% 100%	0.001-0.001 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		

HALEY & ALDRICH, INC. DECEMBER 2022

Appendix B – Laboratory Analytical Reports



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

Sample # AF27222 Location: WGS well WBW A1 Date: 02/16/2022 Sample Collector: BRT/BSB

Loc. Code WBW-A1-1 Time: 13:46

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	73.3	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	39.0	mg/L	04/06/2022	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	<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
Copper	<5	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Iron	3910	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	17.1	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	14.8	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	25.00	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	12.6	mg/L	02/23/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	126	mg/L	02/23/2022	<b>KCWELLS</b>	EPA 300.0
Radium 226	0.760	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.01	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.77	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	4.67	SU	02/16/2022	BRT/BSB	

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

Sample Validated:

Final Validation Date: 06/07/2022



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

**Sample #** AF27193

Location: GW Well WAP-7

Date: 02/17/2022

Sample Collector: BRT/BSB

Loc. Code WAP-7

Time: 10:05

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	3.3	ug/L	05/25/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	34.6	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	514	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	< 0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.70	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	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	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	2370	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	1942	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	97.3	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	957	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	1.39	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	3.55	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.94	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.44	SU	02/17/2022	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

Validated date: 6/7/22





**Sample #** AF27223

Location: WGS well WLF A1-1

Date: 03/03/2022

Sample Collector: BRT/BSB

Loc. Code WLF-A1-1

Time: 11:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	34.9	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	335	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	< 0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	05/26/2022	<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
Copper	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Iron	4760	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	1540	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	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	1374	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	< 0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	83.0	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	576	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.810	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	2.66	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.47	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
рН	6.45	SU	03/03/2022	BRT/BSB	

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

Sample Validated:

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Final Validation Date:

06/08/2022



Sample # AF27224 Location: WGS well WLF A1-2 Date: 03/02/2022 Sample Collector: BRT/BSB

Loc. Code WLF-A1-2 Time: 13:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	54.7	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	90.7	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	05/26/2022	<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
Copper	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Iron	765	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	1420	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	03/22/2022	PACE	EPA 7470
<b>Total Dissolved Solids</b>	493.8	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	92.1	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	149	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Radium 226	1.35	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	1.79	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.13	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
pН	5.52	SU	03/03/2022	BRT/BSB	

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

Sample Validated:

Final Validation Date: 06/08/2022



Sample # AF27225 Location: WGS well WLF A1-3 Date: 03/02/2022 Sample Collector: BRT/BSB

Loc. Code WLF-A1-3 Time: 12:31

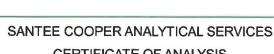
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	3.15	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	25.4	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	18.5	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	1.43	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	05/26/2022	<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
Copper	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Iron	633	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	278	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	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	131.2	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	0.15	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	4.48	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	75.9	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Radium 226	0.919	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	3.75	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.67	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
рН	4.40	SU	03/03/2022	BRT/BSB	

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

Sample Validated:

Final Validation Date:

06/08/2022



### **CERTIFICATE OF ANALYSIS** LAB CERTIFICATION #08552

Location: WGS well WLF A1-4 Sample # AF27226 Date: 03/02/2022 Sample Collector: BRT/BSB

Loc. Code WLF-A1-4 Time: 11:20

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Analysis	Result	Units	Test Date	Analyst	Method		
Arsenic	<3	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Barium	30.4	ug/L	04/06/2022	SJHATCHE	EPA 6010D		
Beryllium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Calcium	76.8	mg/L	04/06/2022	SJHATCHE	EPA 6010D		
Cadmium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Cobalt	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Chromium	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Lead	<2.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Antimony	<5	ug/L	05/26/2022	<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		
Copper	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B		
Iron	963	ug/L	04/06/2022	SJHATCHE	EPA 6010D		
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D		
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D		
Boron	244	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	03/22/2022	PACE	EPA 7470		
Total Dissolved Solids	308.8	mg/L	03/14/2022	SJBROWN	SM 2540C		
Fluoride	<0.10	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0		
Chloride	7.55	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0		
Sulfate	73.9	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0		
Radium 226	0.355	pCi/L	03/23/2022	GEL	EPA 903.1 Mod		
Radium 228	2.46	pCi/L	03/31/2022	GEL	EPA 904.0		
Radium 226/228 Combined Calculation	2.81	pCi/L	03/31/2022	GEL	EPA 903.1 Mod		
Hq	6.28	SU	03/02/2022	BRT/BSB			

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

Sample Validated:

Final Validation Date:

06/08/2022



Sample # AF27227 Location: WGS well WLF A1-4 Date: 03/02/2022 Sample Collector: BRT/BSB

Loc. Code WLF-A1-4 Time: 11:25

		Duplicate		Tille, 11.20		
	Analysis	Result	Units	Test Date	Analyst	Method
	Arsenic	<3	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Barium	31.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
	Beryllium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Calcium	79.0	mg/L	04/06/2022	SJHATCHE	EPA 6010D
	Cadmium	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Cobalt	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Chromium	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Lead	<2.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Antimony	<5	ug/L	05/26/2022	<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
	Copper	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
	Iron	1200	ug/L	04/06/2022	SJHATCHE	EPA 6010D
	Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
	Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
	Boron	245	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	03/22/2022	PACE	EPA 7470
	Total Dissolved Solids	303.8	mg/L	03/14/2022	SJBROWN	SM 2540C
	Fluoride	<0.10	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
	Chloride	7.62	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
	Sulfate	75.1	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
	Radium 226	0.496	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
	Radium 228	2.10	pCi/L	03/31/2022	GEL	EPA 904.0
Rad	lium 226/228 Combined Calculation	2.59	pCi/L	03/31/2022	GEL	EPA 903.1 Mod

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

Sample Validated:

Final Validation Date: 06/08/2022



Sample # AF27228 Location: WGS well WLF A1-5 Date: 03/03/2022 Sample Collector: BRT/BSB

Loc. Code WLF-A1-5 Time: 13:06

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	34.1	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	< 0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	252	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	< 0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Chromium	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Antimony	<5	ug/L	05/26/2022	<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
Copper	<5	ug/L	05/26/2022	<b>EUROFINS SAV</b>	EPA 6020B
Iron	1570	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Nickel	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Zinc	<10.0	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Boron	1930	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	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	1235	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	< 0.10	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Chloride	159	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	512	mg/L	03/05/2022	<b>KCWELLS</b>	EPA 300.0
Radium 226	0.780	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	0.670	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.45	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
рН	7.02	SU	03/03/2022	BRT/BSB	

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

Sample Validated:

Final Validation Date: 06/08/2022

Linda Williams - Supervisor, Analytical Services



Sample # AF38191 Location: WGS well WBW A1 Date: 07/12/2022 Sample Collector: DEW/BM

Loc. Code WBW-A1-1 Time: 10:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	130	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	76.00	mg/L	08/24/2022	R&C	EPA 6010E
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Cobalt	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Chromium	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010E
Antimony	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Thallium	<1	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010
Iron	3280	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6010
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010I
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010I
Boron	47.0	ug/L	08/26/2022	R&C	EPA 6010I
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010I
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010
Mercury	<0.2	ug/L	07/21/2022	GEL	EPA 7470
Radium 226	2.12	pCi/L	08/09/2022	GEL	EPA 903.1 M
Radium 228	0.975	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.10	pCi/L	09/01/2022	GEL	EPA 903.1 M
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	13.6	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	215	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
<b>Total Dissolved Solids</b>	323.8	mg/L	07/14/2022	AMSOULE	SM 2540C
pН	4.62	SU	07/12/2022	DEW/BM	

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

Sample Validated:

Lindallellan

Final Validation Date:



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

**Sample #** AF38162

Location: GW Well WAP-7

Date: 07/13/2022

Sample Collector: DEW/BM

Loc. Code WAP-7

Time: 10:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	39.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	683.0	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	<2.5	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
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	399	ug/L	09/16/2022	<b>EUROFINS SAV</b>	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<20	ug/l	09/17/2022	<b>EUROFINS SAV</b>	EPA 6020B
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	4000.0	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	07/19/2022	GEL	EPA 7470
Radium 226	1.50	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.34	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.84	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/20/2022	KCWELLS	EPA 300.0
Chloride	123	mg/L	07/20/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	1380	mg/L	07/20/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	820.0	mg/L	07/15/2022	AMSOULE	SM 2540C
pH	6.53	SU	07/13/2022	DEW/BM	

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

Sample Validated:

Eindal Villians

Final Validation Date:



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

Sample # AF38192 Location: WGS well WLF A1-1 Date: 07/12/2022 Sample Collector: DEW/BM

Loc. Code WLF-A1-1 Time: 14:55

Analysis	Result	Units	Test Date	Analyst	Method	
Arsenic	<5	ug/L	08/26/2022	R&C	EPA 6020B	
Barium	37.0	ug/L	08/24/2022	R&C	EPA 6010D	
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B	
Calcium	310.0	mg/L	08/24/2022	R&C	EPA 6010D	
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B	
Cobalt	<0.5	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	08/26/2022	R&C	EPA 6020B	
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B	
Thallium	<1	ug/L	08/26/2022	R&C	EPA 6020B	
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D	
Iron	10300	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6010D	
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D	
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D	
Boron	0.088	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	07/19/2022	GEL	EPA 7470	
Radium 226	0.189	pCi/L	08/09/2022	GEL	EPA 903.1 Mod	
Radium 228	0.572	pCi/L	08/30/2022	GEL	EPA 904.0	
Radium 226/228 Combined Calculation	0.762	pCi/L	09/01/2022	GEL	EPA 903.1 Mod	
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0	
Chloride	23.4	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0	
Sulfate	564	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0	
Total Dissolved Solids	1222	mg/L	07/14/2022	AMSOULE	SM 2540C	
рН	6.03	SU	07/12/2022	DEW/BM		

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

Sample Validated:

amadellar

Final Validation Date:



Sample # AF38193 Location: WGS well WLF A1-2 Date: 07/11/2022 Sample Collector: DEW/DJ

Loc. Code WLF-A1-2 Time: 13:38

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	49.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	32.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	1.91	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
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2860	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	110.0	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	07/19/2022	GEL	EPA 7470
Radium 226	0.885	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.91	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.80	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	4.78	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	82.1	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
Total Dissolved Solids	133.8	mg/L	07/13/2022	AMSOULE	SM 2540C
pH	4.59	SU	07/11/2022	DEW/BM	

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

Sample Validated:

Final Validation Date:



Sample # AF38194 Location: WGS well WLF A1-3 Date: 07/11/2022 Sample Collector: DEW/DJ

Loc. Code WLF-A1-3 Time: 14:41

Analysis	Result	Units	Test Date	Analyet	Mathad
_				Analyst	Method
Arsenic	7	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	36.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	18.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	0.89	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
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	399	ug/L	09/28/2022	<b>EUROFINS SAV</b>	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	260.0	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	07/19/2022	GEL	EPA 7470
Radium 226	0.963	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.52	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.49	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	5.04	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	66.8	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
Total Dissolved Solids	96.25	mg/L	07/13/2022	AMSOULE	SM 2540C
рН	4.32	SU	07/11/2022	DEW/BM	

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

Sample Validated:

Lindallellians

Final Validation Date:



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

Sample # AF38195 Location: WGS well WLF A1-4 Date: 07/11/2022 Sample Collector: DEW/DJ

Loc. Code WLF-A1-4 Time: 15:35

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020E
Barium	36.0	ug/L	08/24/2022	R&C	EPA 6010I
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Calcium	76.00	mg/L	08/24/2022	R&C	EPA 6010
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Cobalt	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Chromium	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010
Antimony	<5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Selenium	<2.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Thallium	<1	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010
Iron	2520	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6010
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010
Boron	220.0	ug/L	08/26/2022	R&C	EPA 6010
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 747
Radium 226	0.493	pCi/L	08/09/2022	GEL	EPA 903.1 N
Radium 228	2.39	pCi/L	08/30/2022	GEL	EPA 904.
Radium 226/228 Combined Calculation	2.88	pCi/L	09/01/2022	GEL	EPA 903.1 N
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.
Chloride	6.56	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.
Sulfate	69.2	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.
Total Dissolved Solids	280.0	mg/L	07/13/2022	AMSOULE	SM 25400
рН	6.03	SU	07/11/2022	DEW/BM	

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

Sample Validated:

Lindallellars

Final Validation Date:



Sample # AF38196 Location: WGS well WLF A1-4 Date: 07/11/2022 Sample Collector: DEW/DJ

Loc. Code WLF-A1-4 Time: 15:40

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Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	35.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	< 0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	79.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	< 0.5	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
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2120	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	<10	ug/L	08/24/2022	R&C	EPA 6010D
Boron	210.0	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	07/19/2022	GEL	EPA 7470
Radium 226	0.378	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.604	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.982	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	6.64	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	69.9	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	268.8	mg/L	07/13/2022	AMSOULE	SM 2540C

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

Sample Validated:

dalleans

Final Validation Date:



Sample # AF38197 Location: WGS well WLF A1-5 Date: 07/12/2022 Sample Collector: DEW/BM

Loc. Code WLF-A1-5 Time: 13:58

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Barium	37.0	ug/L	08/24/2022	R&C	<b>EPA 6010D</b>
Beryllium	<0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Calcium	290.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	< 0.5	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6020B
Cobalt	<0.5	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
Copper	<5	ug/L	08/24/2022	R&C	EPA 6010D
Iron	2870	ug/L	09/20/2022	<b>EUROFINS SAV</b>	EPA 6010D
Nickel	<10	ug/L	08/24/2022	R&C	EPA 6010D
Zinc	23.0	ug/L	08/24/2022	R&C	EPA 6010D
Boron	1900.0	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	07/19/2022	GEL	EPA 7470
Radium 226	0.339	pCi/L	08/09/2022	GEL	EPA 903.1 Mo
Radium 228	0.477	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.816	pCi/L	09/01/2022	GEL	EPA 903.1 Mo
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	168	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
Sulfate	465	mg/L	07/13/2022	<b>KCWELLS</b>	EPA 300.0
<b>Total Dissolved Solids</b>	1338	mg/L	07/14/2022	AMSOULE	SM 2540C
pH	6.76	SU	07/12/2022	DEW/BM	

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

Sample Validated:

Final Validation Date:



#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Sample # AF41635 Location: WGS well WLF A1-2 Date: 08/08/2022 Sample Collector: DEW/BB

Loc. Code WLF-A1-2 Time: 14:25

Analysis	Result	Units	Test Date	Analyst	Method
Boron	120.0	ug/L	08/17/2022	R&C	EPA 6010D
Vitrite	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0
Chloride	5.54	mg/L	08/10/2022	KCWELLS	EPA 300.0
Sulfate	88.6	mg/L	08/10/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	153.8	mg/L	08/12/2022	KCWELLS	SM 2540C
ьН	4.53	SU	08/08/2022	DEW/BB	
Alkalinity	9.0	mg/L	08/10/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/10/2022	GEL	SM 2320B
Bicarbonate Alkalinity	9.0	mg/L	08/10/2022	GEL	SM 2320B

#### 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 # AF41635 Location: WGS well WLF A1-2 Date: 08/08/2022 Sample Collector: DEW/BB

Loc. Code WLF-A1-2 Time: 14:25

Analysis	Result	Units	Test Date	A nalyst	Method
Calcium	33.00	mg/l	08/17/2022	R&C	EPA 6010D
Iron	3400	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	0.470	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	2.20	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	0.870	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	1.60	mg/L	08/12/2022	GEL	SM 5310B
Dissoloved Organic Carbon	1.27	mg/L	08/13/2022	GEL	SM 5310B
Nitrate	<0.10	mg/L	08/11/2022	KCWELLS	EPA 300.0
Iron - Dissolved	3600	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	34.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	37.0	ug/L	08/17/2022	R&C	EPA 200.7

#### 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:



AF41641

Location:

GW Well WAP-7

510.0

510.0

Sample #

Manganese

Manganese - Dissolved

One Riverwood Drive P.O. Box 2946101 Moncks Corner, SC 29461-2901 (843) 761-8000

Sample Collector:

R&C

R&C

DEW/BB

EPA 6010D

EPA 200.7

#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Date: 08/09/2022

08/17/2022

08/17/2022

WAP-7 Time: 14:55 Loc. Code Result Units **Test Date** Analyst Method Analysis 5.60 08/17/2022 EPA 6010D Potassium mg/l R&C Sodium 15.0 08/17/2022 R&C EPA 6010D mg/l 16.0 08/17/2022 R&C EPA 6010D Magnesium mg/l R&C EPA 6020B Iron - Dissolved 290 ug/L 08/12/2022

ug/L

ug/L

#### Comments:

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

Analysis Validated:



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

(843) 761-8000

#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Sample # AF41641 Location: GW Well WAP-7 Date: 08/09/2022 Sample Collector: DEW/BB

Loc. Code WAP-7 Time: 14:55

200. 0000	111101 11100					
Analysis	Result	Units	Test Date	A nalyst	Method	
Calcium	690.0	mg/l	08/17/2022	R&C	EPA 6010D	
Boron	4000.0	ug/L	08/17/2022	R&C	EPA 6010D	
Iron	190	ug/L	08/17/2022	R&C	EPA 6010D	
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034	
Total Organic Carbon	18.5	mg/L	08/17/2022	GEL	SM 5310B	
Dissoloved Organic Carbon	19.0	mg/L	08/17/2022	GEL	SM 5310B	
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Chloride	109	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Sulfate	1240	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Total Dissolved Solids	2531	mg/L	08/12/2022	KCWELLS	SM 2540C	
pH	6.52	SU	08/09/2022	DEW/BB		
Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B	
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B	
Bicarbonate Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B	

#### 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:

Lindalellan

#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Sample # AF41636 Location: WGS well WLF A1-3 Date: 08/08/2022 Sample Collector: DEW/BB

Loc. Code WLF-A1-3 Time: 15:27

Loc. Code Vill 7 (1 3	11116. 13.21					
Analysis Calcium	<b>Result</b> 18.00	<b>Units</b> mg/l	Test Date 08/17/2022	A nalyst R&C	Method EPA 6010D	
Boron	170.0	ug/L	08/17/2022	R&C	EPA 6010D	
Iron	480	ug/L	08/17/2022	R&C	EPA 6010D	
Potassium	0.540	ug/∟ mg/l	08/17/2022	R&C	EPA 6010D	
Sodium	2.30	mg/l	08/17/2022	R&C	EPA 6010D	
Magnesium	0.490	mg/l	08/17/2022	R&C	EPA 6010D	
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034	
Total Organic Carbon	1.14	mg/L	08/12/2022	GEL	SM 5310B	
Dissoloved Organic Carbon	<1.00	mg/L	08/13/2022	GEL	SM 5310B	
Nitrite	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0	
Nitrate	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0	
Fluoride	<0.10	mg/L	08/10/2022	KCWELLS	EPA 300.0	
Chloride	5.37	mg/L	08/10/2022	KCWELLS	EPA 300.0	
Sulfate	62.6	mg/L	08/10/2022	KCWELLS	EPA 300.0	
Total Dissolved Solids	91.25	mg/L	08/12/2022	KCWELLS	SM 2540C	
pH	4.24	SU	08/08/2022	DEW/BB		
Alkalinity	<4	mg/L	08/10/2022	GEL	SM 2320B	
Alkalinity as CaCO3	<4	mg/L	08/10/2022	GEL	SM 2320B	
Bicarbonate Alkalinity	<4	mg/L	08/10/2022	GEL	SM 2320B	
Iron - Dissolved	460	ug/L	08/12/2022	R&C	EPA 6020B	
Manganese	23.0	ug/L	08/17/2022	R&C	EPA 6010D	
Manganese - Dissolved	22.0	ug/L	08/17/2022	R&C	EPA 200.7	

#### 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 Villians

#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Sample # AF41633 Location: WGS well WBW A1 Date: 08/09/2022 Sample Collector: DEW/BB

Loc. Code WBW-A1-1 Time: 10:28

200.0000 170177111	11110, 10.20					
Analysis Calcium	<b>Result</b> 92.00	<b>Units</b> mg/l	Test Date 08/17/2022	A nalyst R&C	Method EPA 6010D	
Boron	56.0	ug/L	08/17/2022	R&C	EPA 6010D	
Iron	3900	ug/L	08/17/2022	R&C	EPA 6010D	
Potassium	5.00	mg/l	08/17/2022	R&C	EPA 6010D	
Sodium	14.0	mg/l	08/17/2022	R&C	EPA 6010D	
Magnesium	3.40	mg/l	08/17/2022	R&C	EPA 6010D	
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034	
Total Organic Carbon	4.20	mg/L	08/17/2022	GEL	SM 5310B	
Dissoloved Organic Carbon	4.34	mg/L	08/17/2022	GEL	SM 5310B	
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Chloride	15.4	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Sulfate	248	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Total Dissolved Solids	365.0	mg/L	08/12/2022	KCWELLS	SM 2540C	
pH	4.67	SU	08/09/2022	DEW/BB		
Alkalinity	4.2	mg/L	08/17/2022	GEL	SM 2320B	
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B	
Bicarbonate Alkalinity	4.2	mg/L	08/17/2022	GEL	SM 2320B	
Iron - Dissolved	3800	ug/L	08/12/2022	R&C	EPA 6020B	
Manganese	48.0	ug/L	08/17/2022	R&C	EPA 6010D	
Manganese - Dissolved	49.0	ug/L	08/17/2022	R&C	EPA 200.7	

#### 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:

Lindalellan

#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Sample # AF41639 Location: V/GS well WLFA1-5 Date: 08/09/2022 Sample Collector: DEW/BB

Loc. Code WLF-A1-5 Time: 11:38

Loc. Code Vill 7 (1 5	1111fe, 11.50					
Analysis Calcium	<b>Result</b> 310.0	Units	Test Date 08/17/2022	A nalyst R&C	Method EPA 6010D	
		mg/l				
Boron	1800.0	ug/L	08/17/2022	R&C	EPA 6010D	
Iron	3800	ug/L	08/17/2022	R&C	EPA 6010D	
Potassium	8.70	mg/l	08/17/2022	R&C	EPA 6010D	
Sodium	23.0	mg/l	08/17/2022	R&C	EPA 6010D	
Magnesium	30.0	mg/l	08/17/2022	R&C	EPA 6010D	
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034	
Total Organic Carbon	9.64	mg/L	08/17/2022	GEL	SM 5310B	
Dissoloved Organic Carbon	9.85	mg/L	08/17/2022	GEL	SM 5310B	
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Chloride	164	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Sulfate	529	mg/L	08/15/2022	KCWELLS	EPA 300.0	
Total Dissolved Solids	1456	mg/L	08/12/2022	KCWELLS	SM 2540C	
рН	6.46	SU	08/09/2022	DEW/BB		
Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B	
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B	
Bicarbonate Alkalinity	220	mg/L	08/17/2022	GEL	SM 2320B	
Iron - Dissolved	3000	ug/L	08/12/2022	R&C	EPA 6020B	
Manganese	1100.0	ug/L	08/17/2022	R&C	EPA 6010D	
Manganese - Dissolved	1100.0	ug/L	08/17/2022	R&C	EPA 200.7	

#### 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 # AF41634 Location: V/GS well WLFA1-1 Date: 08/09/2022 Sample Collector: DEW/BB

Loc, Code WLF-A1-1 Time: 12:51

Loc. Code VVLF-A1-1		4			
Analysis	Result	Units	Test Date	Analyst	Method
Calcium	390.0	mg/l	08/17/2022	R&C	EPA 6010D
Boron	910.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	9200	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	5.70	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	9.50	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	9.20	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	11.7	mg/L	08/17/2022	GEL	SM 5310B
Dissoloved Organic Carbon	12.0	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	20.8	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	519	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1125	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	6.13	SU	08/09/2022	DEW/BB	
Alkalinity	280	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	280	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	9500	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	930.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	960.0	ug/L	08/17/2022	R&C	EPA 200.7

#### 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 # AF41637 Location: V/GS well WLF A1-4 Date: 08/09/2022 Sample Collector: DEW/BB

Loc. Code WLF-A1-4 Time: 13:59

LOC. Code MEI 3414					
Analysis	Result	Units	Test Date	Analyst	Method
Calcium	93.00	mg/l	08/17/2022	R&C	EPA 6010D
Boron	270.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	2700	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	1.60	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	3.10	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	1.70	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	11.7	mg/L	08/17/2022	GEL	SM 5310B
Dissoloved Organic Carbon	12.1	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	7.68	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	77.5	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	288.8	mg/L	08/12/2022	KCWELLS	SM 2540C
pH	6.15	SU	08/09/2022	DEW/BB	
Alkalinity	120	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	120	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	2600	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	89.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	89.0	ug/L	08/17/2022	R&C	EPA 200.7
[10] [10] [10] [10] [10] [10] [10] [10]		5			

#### 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:

AF41638

Location:

WGS well WLFA1-4

Sample #

One Riverwood Drive P.O. Box 2946101 Moncks Corner, SC 29461-2901 (843) 761-8000

Sample Collector:

DEW/BB

#### SANTEE COOPER ANALYTICAL SERVICES

#### CERTIFICATE OF ANALYSIS

#### LAB CERTIFICATION #08552

Date: 08/09/2022

DUP WLF-A1-4 Time: 14:04 Loc. Code Units Method Analysis Result **Test Date** Analyst

Allalysis	Keauit	Offica	rest Date	Allalyst	Metriou
Calcium	89.00	mg/l	08/17/2022	R&C	EPA 6010D
Boron	260.0	ug/L	08/17/2022	R&C	EPA 6010D
Iron	2900	ug/L	08/17/2022	R&C	EPA 6010D
Potassium	1.80	mg/l	08/17/2022	R&C	EPA 6010D
Sodium	3.10	mg/l	08/17/2022	R&C	EPA 6010D
Magnesium	1.80	mg/l	08/17/2022	R&C	EPA 6010D
Sulfide	<0.1	mg/L	08/15/2022	GEL	EPA 9034
Total Organic Carbon	11.8	mg/L	08/17/2022	GEL	SM 5310B
Dissoloved Organic Carbon	12.2	mg/L	08/17/2022	GEL	SM 5310B
Nitrite	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	08/15/2022	KCWELLS	EPA 300.0
Chloride	7.79	mg/L	08/15/2022	KCWELLS	EPA 300.0
Sulfate	78.1	mg/L	08/15/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	297.5	mg/L	08/12/2022	KCWELLS	SM 2540C
Alkalinity	130	mg/L	08/17/2022	GEL	SM 2320B
Alkalinity as CaCO3	<4	mg/L	08/17/2022	GEL	SM 2320B
Bicarbonate Alkalinity	130	mg/L	08/17/2022	GEL	SM 2320B
Iron - Dissolved	2800	ug/L	08/12/2022	R&C	EPA 6020B
Manganese	96.0	ug/L	08/17/2022	R&C	EPA 6010D
Manganese - Dissolved	110.0	ug/L	08/17/2022	R&C	EPA 200.7

#### 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:



### **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

.....LINKS .....

Review your project results through

**Have a Question?** 



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

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

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12

13

### **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	9
QC Sample Results	22
QC Association	24
Chronicle	26
Chain of Custody	29
Receipt Checklists	37
Certification Summary	39

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5

7

9

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12

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14

#### **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

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
680-214698-4	AF27224	Water	03/02/22 13:54	04/28/22 10:30
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
680-214698-10	AF27230	Water	02/24/22 10:33	04/28/22 10:30
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
680-214698-13	AF27233	Water	02/24/22 11:49	04/28/22 10:30

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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.
¤	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 Contains No Free Liquid CNF

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DL, RA, RE, IN

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

**RPD** Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC** 

Job ID: 680-214698-1

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

Client Sample ID: AF27221						Lab Sam	ple ID: 6	80-214698-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Cobalt	8.38		0.500	-	ug/L	1	6020B	Total/NA
Client Sample ID: AF27222						Lab Sam	ple ID: 6	80-214698-2
No Detections.								
Client Sample ID: AF27223						Lab Sam	ple ID: 6	80-214698-3
No Detections.								
Client Sample ID: AF27224						Lab Sam	ple ID: 6	80-214698-4
No Detections.								
Client Sample ID: AF27225						Lab Sam	ple ID: 6	80-214698-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Arsenic	3.15	_	3.00		ug/L	1	6020B	Total/NA
Cobalt	1.43		0.500		ug/L	Ĩ	6020B	Total/NA
Client Sample ID: AF27226						Lab Sam	ple ID: 6	80-214698-6
No Detections.								
Client Sample ID: AF27227						Lab Sam	ple ID: 6	80-214698-7
No Detections.								
Client Sample ID: AF27228						Lab Sam	ple ID: 6	80-214698-8
No Detections.								
Client Sample ID: AF27229						Lab Sam	ple ID: 6	80-214698-9
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	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 Samp	le ID: 68	0-214698-10
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	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 Samp	ole ID: 68	0-214698-11
Analyte		Qualifier	RL	MDL	Unit	Dil Fac D	West Control of the C	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 Samp	le ID: 68	0-214698-12
Analyte		Qualifier	RL	MDL	S.	Dil Fac D		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			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

**Matrix: Water** 

Job ID: 680-214698-1

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

**Client Sample ID: AF27221** 

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 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 -	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

Eurofins Savannah

6/2/2022 (Rev. 1)

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

Lab Sample ID: 680-214698-2

IC ID. 000-21-000-2

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

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	- 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 19:09	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:09	1

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4.

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

Lab Sample ID: 680-214698-3

**Matrix: Water** 

Job ID: 680-214698-1

**Client Sample ID: AF27223** Date Collected: 03/03/22 11:48

Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 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	Ü	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 -	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 19:13	1
Thallium	1.00	U	1.00		ug/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

**Matrix: Water** 

Job ID: 680-214698-1

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	Ü	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	Ü	1.00		ua/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

Job ID: 680-214698-1

**Matrix: Water** 

Date Collected: 03/02/22 12:31 Date Received: 04/28/22 10:30

**Client Sample ID: AF27225** 

Method: 6020B - Metals (ICP/	MS)								
Analyte	Result Q	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	l	0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Cadmium	0.500 U	Ĭ	0.500		ug/L		05/25/22 10:44	05/26/22 09:20	1
Chromium	5.00 U	j	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	l	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	J,	5.00		ug/L		05/25/22 10:44	05/26/22 09:20	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 19:27	1
Thallium	1.00	Ü	1.00		ua/L		05/10/22 12:03	05/11/22 19:27	1

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

Lab Sample ID: 680-214698-6

Job ID: 680-214698-1

**Matrix: Water** 

Date Collected: 03/02/22 11:20 Date Received: 04/28/22 10:30

**Client Sample ID: AF27226** 

Method: 6020B - Metals	s (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	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:28	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:28	1
Antimony	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	1
Copper	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:28	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 19:30	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:30	1

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

Lab Sample ID: 680-214698-7

D Campic ID. 000-2 14000-7

Matrix: Water

Job ID: 680-214698-1

Client Sample	ID:	AF27227
The state of the s	-	100 44 05

Date Collected: 03/02/22 11:25 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 09:31	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 - M	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 19:34	1
Thallium	1.00	U	1.00		ua/L		05/10/22 12:03	05/11/22 19:34	1

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

Lab Sample ID: 680-214698-8

Job ID: 680-214698-1

**Matrix: Water** 

Date Collected: 03/03/22 13:06 Date Received: 04/28/22 10:30

**Client Sample ID: AF27228** 

Method: 6020B - Metals (ICP/MS	5)								
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	Ü	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 - 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 19:37	1
Thallium	1.00	Ü	1.00		ua/L		05/10/22 12:03	05/11/22 19:37	1

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

CI	ıer	ıt	S	an	p	e	ID	H	A	F27	7229	)
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Date Collected: 02/24/22 10:27 Date Received: 04/28/22 10:30

Method: 6020B - Meta Analyte	A STATE OF THE STA	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	322		3.00	1000 to 1000	ug/L	—— : <del></del> -	TO SCORE BRIGADIO SCORE	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	Ü	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 - 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 19:41	1
Thallium	1.00	U	1.00		ug/L		05/10/22 12:03	05/11/22 19:41	1

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

Lab Sample ID: 680-214698-10

Job ID: 680-214698-1

Matrix: Water

Client Sample ID: AF27230

Date Collected: 02/24/22 10:33 Date Received: 04/28/22 10:30

Analyte	Result	Qualifier	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	- 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 19:55	1
Thallium	1.00	U	1.00		ug/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

I 0 ID 000 044000 44

Lab Sample ID: 680-214698-11

Job ID: 680-214698-1

**Matrix: Water** 

Client Sample ID: AF27231
Date Collected: 02/23/22 11:22
Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/MS) **Analyte** Result Qualifier RL**MDL** Unit **Prepared** Dil Fac Analyzed Arsenic 452 3.00 ug/L 05/24/22 17:36 05/25/22 21:32 Beryllium 0.500 0.500 U 05/24/22 17:36 05/25/22 21:32 ug/L Cadmium 0.500 U 0.500 ug/L 05/24/22 17:36 05/25/22 21:32 05/24/22 17:36 05/25/22 21:32 Chromium 5.00 U 5.00 ug/L Cobalt 0.755 0.500 ug/L 05/24/22 17:36 05/25/22 21:32 Lead 2.50 ug/L 05/24/22 17:36 05/25/22 21:32 2.50 U Antimony 5.00 U 5.00 ug/L 05/24/22 17:36 05/25/22 21:32 5.00 U Copper 5.00 ug/L 05/24/22 17:36 05/25/22 21:32

Method: EPA 6020B - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac											
	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	

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

Lab Sample ID: 680-214698-12

**Matrix: Water** 

Job ID: 680-214698-1

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

Date Received: 04/28/22 10:30

Method: 6020B - Metals Analyte	s (ICP/MS) Result Q	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 U	J	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Cadmium	0.500 U	J	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Chromium	5.00 U	J	5.00		ug/L		05/24/22 17:36	05/25/22 21:55	1
Cobalt	0.500 U	J	0.500		ug/L		05/24/22 17:36	05/25/22 21:55	1
Lead	2.50 U	J	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	J	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

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

Lab Sample ID: 680-214698-13

D Gampic 1D. 000-2 14000-10

Matrix: Water

Job ID: 680-214698-1

<b>Client Sample</b>	ID: A	F27233
Data Callestade 0	212412	2 44 40

Date Collected: 02/24/22 11:49 Date Received: 04/28/22 10:30

Method: 6020B - Metals (ICP/M Analyte	CONTRACTOR AND ADDRESS OF THE ADDRES	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	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:58	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:58	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:58	1
Copper	5.00	U	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

**Matrix: Water** 

Analysis Batch: 722803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 722485

Analyte	Added	Result	Qualifier		322		
Allalyte			Quaillel	Unit	D	%Rec	Limits
Arsenic	100	97.59	à	ug/L	- 4 5 4	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

**Matrix: Water** 

Analysis Batch: 722803

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 722492** 

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 21:11	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:11	1
Antimony	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Copper	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1

MB MB

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

**Matrix: Water** 

Analysis Batch: 722803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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** 

LCS LCS Spike %Rec 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** 

M	в мв							
Analyte Resu	lt Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic 3.0	0 U	3.00		ug/L	81 - 81	05/25/22 10:44	05/26/22 08:57	1
Beryllium 0.50	0 U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cadmium 0.50	0 U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Chromium 5.0	0 U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cobalt 0.50	0 U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Lead 2.5	0 U	2.50		ug/L		05/25/22 10:44	05/26/22 08:57	1
Antimony 5.0	0 U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Copper 5.0	0 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

Alialysis Dalcii. 122311							Fieh Datcii. 122333
	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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L	21 - 21	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

711101, 010 2010111 000022								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Selenium	1000	972.2	\s_2	ug/L		97	80 - 120	
Thallium	1000	1012		ug/L		101	80-120	

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# **QC Association Summary**

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

Job ID: 680-214698-1

### **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	

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# **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	=======================================
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

Lab Sample ID: 680-214698-1

Matrix: Water

Client Sample ID: AF27221 Date Collected: 02/15/22 11:24 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 20:43	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 Lab Sample ID: 680-214698-2 Date Collected: 02/16/22 13:46

**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 20:51	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

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

Date Collected: 03/03/22 11:48 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 09:33	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 19:13	RSK	TAL PIT

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

Date Collected: 03/02/22 13:54 **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			722593	05/25/22 10:44	JE	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 **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 09:20	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

Eurofins Savannah

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

Lab Sample ID: 680-214698-6

**Matrix: Water** 

Date Collected: 03/02/22 11:20 Date Received: 04/28/22 10:30

Client Sample ID: AF27226

	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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	Action and the control of the contro	Calcon Control Control	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:31	ВЈВ	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		Ĩ	398622	05/11/22 19:34	RSK	TAL PIT

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

Matrix: Water

Date Collected: 03/03/22 13:06 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

Lab Sample ID: 680-214698-9 Client Sample ID: AF27229 **Matrix: Water** 

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

**Matrix: Water** 

### 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	Analyst	Lab
Total/NA	Prep	3010A	——————————————————————————————————————		722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:32	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

Lab Sample ID: 680-214698-13

**Matrix: Water** 

Date Collected: 02/24/22 11:49 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 21:58	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

Page 28 of 39

5

**Chain of Custody** 

# santee cooper

Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone (843)761-8000 Ext. 5148 Fnx (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 Yes @santeecooper.com No **Analysis Group** Labworks ID # Sample Location/ Comments ଓ ଖ Bottle type: (Glass-G/Plastic-P) Matrix(see below) **Collection Time** (Internal use Description Collection Date Method# Sample Collector P 6 Total # of contai Preservative ( below) only) Grab (G) or Composite (C) Reporting limit . Misc. sample info E. B 4 Any other notes F 83 BRT X X AF27221 2/15 G 2 METHOD 6020 I-WEW 1124 GW 858 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): 18.9/ Initial: 428 22 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. Gyrsum Coal Evesi □ Cu □ Sb □ Ag um. Of Gu Saldonnor n toc □ BTEX Wellboard ... □ Ultimate □ Fe □ Se Gypsum(*all* below) C. AIM 11 Napthalene □ DOC ☐ % Moisture □ LOI □THM/HAA □As  $\square K$ □ Sn O TP/TPO4 □ Ash 13 % Carbon □ VOC □ NH3-N ☐ Sulfur ☐ Mineral □ Sr  $\square B$ O Li □ Oil & Grease - F □ BTUs Analysis i: Total metais 5 Saluble Metais DE. Coli □ Ti □ Ba □ Mg ☐ Volatile Matter C) Sieve 11 Total Coliform □ Mn D TI O NO2 □ CHN □ Be TPuny (CaSO4) U% Mountre ☐ % Moisture □pH □ Br ☐ Dissolved As Other Tests: □ Ca □ Mo  $\Box V$ Sutfices XRF Scan □ NO3 □ Dissolved Fe NPDES □ Cd □ Na □ Zn ☐ Rad 226 pH Chlorides HGI □S04 Old & Grease ☐ Rad 228 Fineness □Со ΩNi □Hg □ PCB () Particle Size Particulate Matter DAs HITSS □ Cr □Pb □ CrVI Sultur

# **Chain of Custody**

santee cooper

Santee Cooper One Riverwood Drive Moneka Comer, SC 29461 Phone (843)761-8000 Ext. 517 Fax (843)761-4175

Customer	Email/	Report Recipi	ent:	Date R	Results Ne	eded b	y:		Pr	oject/	Task/	Unit #:	Rerun reques	for a	ny fla	gged	l QC
LCWILL	HA	@santeed	cooper.com		//			125	915	<u> </u>	102.	08.Gø1.	1 <u>/ 36500</u> Yes	No			
														E	nalysi	s Grou	<u>ID</u>
Labworks (Internal us 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	Mel     Rep     Mis     Any	Comments  shod # sorting limit c, sample info other notes	A5, R5, G/ S	4		
AF272	23ф	WLF A2	- 2	2/23	1122	BRT BSB	١	P	G	GW	2	METHO	Þ 6020	×	X		
	32	1	-6	2/24	1144			1	1	1	1	SEE S	HEET FOR RLS.		1		
1	33	1 .	-6 DUP	1	1149		I	1	1	1							
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Relinquish	ned by:	Employee#	Date	Time	Receive	ed by:	Er	nployee	# .	Date		Time	Sample Receiving (Internal TEMP (°C):/8. 9	Use On Initial			
Sgrown	r		4/27/22	1500	DU	The same of the sa	19	n	4	182	2 /	030	18.3	IIIIIIIII	·		-
Relinquish	ed by:	Employee#	Date	Time	Receive	ed by;	En	nployee	"	Date		Time	Correct pH: Yes No				
													Preservative Lot#:				
Relinguish	ed by:	Employee#	Date	Time	Receive	ed by:	En	nployee	"	Date	4	Time					
													Date/Time/Init for preserv	ative:			
	ME	rALS (all)	Nutr	ients	MIS	c		G)	DSUM	1		Coal			e)		
		□ Sb			DBTEX	<u></u>		Walibo	Marie Services		1	<u>Coar</u> Ultimate	Flyash  Ammonia			3.5	
□Al	□Fe	□Se	□ DO	C	Napthaler			Gyp	ubm((al	l i		☐% Moist					
□ As ↓	OK	□ Sn	D TP/	LN	□ THM/HA □ VOC			helm L All			SEC DESCRIPTION	□ Ash	□ % Carbon			Grengt	
□B □Ba	□Li	□ Sr □ Ti	or		□ Oil & Gro	ease		- TO	0			□ Sulfur □ BTUs	□ Mineral Analysis	100 P. S.			
	□Mg		UCI		I   Total Col	iform		ii Soli	el memi ible Me	tals		□ Volatile !	Matter Sieve				
□ Be	□Mn	DTI	O NO2		□ pH □ Dissolved	As		() Pur	ty (CaS fosture	64)		□ CHN her Tests:	日% Moisture				
□ Ca	□ Mo	DV	NO		☐ Dissolved			- 44 Sull	ites			RF Scan	NPDES			d Garai O O O O	
□ Cd	□Na	□ Zn	U 804		□ Rad 226 □ Rad 228			. OpH ∃Cbl				IGI ineness	O OR & Grenne				
□ Co	□Ni	☐ Hg ☐ CrVI			□ PCB			a Pen	icle Siz	• 11		articulate Ma	iter As				
□ Cr	□Pb	L LUCIVI			<u> </u>	744		Sulfur					11TSS	7(64)			

```
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.

State, Zip: GA, 31404

Savannah

5102 LaRoche Avenue,

Eurofins Environment Testing Southeast,

Shipping/Receiving

ompany

Client Information

(Sub Contract Lab)

Phone:

Jerry Lanier@et.eurofinsus.com

Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program

**Analysis Requested** 

Preservation Codes. 680-214698-1

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Annchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDDA

M - Hexane
N - None
O - AsN'aO2
P - Na2O4S
Q - Na2SO3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Due Date Requested: 5/5/2022 TAT Requested (days):

912-354-7858(Tel) 912-352-0165(Fax)

Project Name: 125915/JM02.08 G01 1/36500

Project #: 68008190

# OW PO#:

#WOSS

Sample Identification - Client ID (Lab ID)

Sample Date

Sample Time

(C=comp, G=grab)

Preservation Code:

Sample Type

Matrix

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No) 6020B/3010A (MOD) 7 ICPMS Metals

Total Number of containers

301 Alpha Drive RIDC Park

**Eurofins Pittsburgh** 

Pittsburgh, PA 15238 Phone 412-963-7058 Fax: 412-963-2468

# Chain of Custody Record

-
Dept to the last
THE OWNER OF THE OWNER, WHEN
-
Name and Address of the Owner, where
***************************************
THE REAL PROPERTY.
Market Street, Square,
-

: eurofins

Lab PM: Lanier, Jerry A State of Origin: South Carolina Carrier Tracking No(s): Page: Page 1 of 2 Job#: COC No: 180-462144 1 Environment Testing America 6/2/2022 (Rev. 1)

Ver: 06/08/2021	8.5/127)	nd Other Remarks:	Cooler Temperature(s) °C and Other Remarks:				Custody Seal No  Δ Yes Δ No
Company	Date/Time:		Received by:	Company		Date/Time:	Relinquished by
Company	Date/Time:		Received by:	Company		Date/Time.	Relinguished by
(U'30) Company	Date/Time: 5/24	Mother	Received by Ha	Company	02 J de	N. 200	Relinquished by
	Method of Shipment	Method		Time	Date.		Empty Kit Relinquished by:
		equirements	Special Instructions/QC Requirements	Spe	e Rank: 1	Primary Deliverable Rank: 1	Deliverable Requested I, II, III, IV, Other (specify)
er than 1 month)  Months	'A fee may be assessed if samples are retained longer than 1 month) ient Disposal By Lab Archive For Mon	may be assessed if san Disposal By Lab	Sample Disposal ( A fee I	Sar.			Possible Hazard Identification Unconfirmed
the laboratory does not curren ould be brought to Eurofins Pit	warded under chain-of-custody If in the sharpes to accreditation status sho	This sample shipment is fon tions will be provided. Any c	at subcontract laboratories. The laboratory or other instructingh.	tation compliance upon ouk to the Eurofins Pittsburg icance to Eurofins Pittsburg	nethod, analyte & accredit ples must be shipped back ty attesting to said compli	aces the ownership of releing analyzed the samp	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.
Type:			×	Water	10 27 Eastern	2/24/22	AF27229 (680-214698-9)
			×	Water	13 06 Eastern	3/3/22 E	AF27228 (680-214698-8)
			×	Water	11.25 Eastern	3/2/22 E	AF27227 (680-214698-7)
			×	Water	11 20 Eastern	3/2/22 E	AF27226 (680-214698-6)
			×	Water	12.31 Eastern	3/2/22 E	AF27225 (680-214698-5)
			×	Water	13 54 Eastern	3/2/22 E	AF27224 (680-214698-4)
CONTRACTOR OF THE PARTY OF THE			×	Water	11 48 Eastern	3/3/22 E	AF27223 (680-214698-3)
	-		×	Water	13.46 Eastern	2/16/22 E	AF27222 (680-214698-2)
MARKET TO SERVICE TO S			×	Water	T1 24 Eastern	2/15/22 E	AF27221 (680-214698-1)

Special Instructions/Note:

# **Chain of Custody Record**

	8	21/15	(6,0	Other Remarks:	Cooler Temperature(s) °C and Other Remarks:	Cooler Tempe						Custody Seals Intact: Custody Seal No
	Company		Date/Time:			Received by:		Company			Date/Time:	Relinquished by:
	Company		Date/Time:		,	Received by		Company	,		Date/Time:	Relination by
	613Company	12/2	Date/Time:	Mount	h	Received by	100		B	8	Terrine.	Relinquished by Relinquished b
			Method of Shipment	Method o			Time			Date.		Empty Kit Relinquished by:
				Requirements.		Special Instructions/QC	Sp			erable Rank	Primary Deliverable Rank. 1	Deliverable Requested I, II, III IV, Other (specify)
-	ger than 1 month)  rMonths	Archive For	amples are	may be assessed if samples are retained longer than 1 month)  Disposal By Lab  Archive For Mon	6	Sample Disposal ( A fee	Sa					Possible Hazard Identification Unconfirmed
e-sometime to the	is forwarded under chain-of-custody If the laboratory does not currently Any changes to accreditation status should be brought to Eurofins Pittsburgh	nain-of-custody editation status st	varded under ch hanges to accre	s sample shipment is for s will be provided Any c	aboratories. Thi	out subcontract I righ laboratory or orgh.	nce upon ons Pittsbur	editation compliar back to the Eurofir mplicance to Euro	nalyte & accru t be shipped t ng to said cor	p of method, a samples mus Custody attesti	blaces the ownersh being analyzed the ne signed Chain of	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.
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www.comedictol.												
						×		Water		11 49 Eastern	2/24/22	AF27233 (680-214698-13)
Pa		-4				×		Water		11 44 Eastern	2/24/22	AF27232 (680-214698-12)
ge :		<u></u>				×		Water		11 22 Eastern	2/23/22	AF27231 (680-214698-11)
33 c						×		Water		10 33 Eastern	2/24/22	AF27230 (680-214698-10)
of 3		X					X	Preservation Code:	Prese		$\setminus$	
39	Special Instructions/Note:	Total Number				6020B/3010A (A	Field Filtered Perform MS/N	le (Wawater Sacild, Oswate/oli, D, Dswate/oli, D) BT=Tiesue, A=Air)	0.6 %	Sample	Sample Date	Sample Identification - Client ID (Lab ID)
		of co Other									SSOW#:	Site.
	A Y - Trizma A Z - other (specify)	ntaine L-EDA									Project #: 68008190	Project Name: 125915/JM02.08 G01 1/36500
											WO #:	Email:
	cid	G - An			,	S	0)				PO#.	Phone: 912-354-7858(Tel) 912-352-0165(Fax)
		D - Nitric Acid E - NaHSO4										State Zip: GA, 31404
	B - NaOH O - AsNaO2 C - Zn Acetate C - Zn Acetate	B - Na C - Zn								(days):	TAT Requested (days):	City Savannah
	Code	Prese		alysis Requested	Analys					sted	Due Date Requested 5/5/2022	Address. 5102 LaRoche Avenue, ,
	580-214698-1	580-2	yram .	NELAP - Florida, State - South Carolina, State Program	State - South	cereditations Required (See note). IELAP - Florida, State - Sou	NEL <sub>A</sub>					Company Eurofins Environment Testing Southeast,
6/2	Page: Page 2 of 2	Page: Page	lina	State of Origin: South Carolina	isus com	E-Mail: Jerry Lanier@et.eurofinsus com	E-Mail: Jerry Lanie	Je.			Phone:	Client Contact Shipping/Receiving
/202	2144.2	180-46	ig No(s).	Carrier Tracking No(s).		īy A	Lab PM: Lanier Jerry A	Lab			Sampler	Client Information (Sub Contract Lab)
22 (Rev. 1)	Ofins Environment Testing America	્રં∗ લ				ord	Reco	Chain of Custody Record	of Cu	Chain		Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468



### **Eurofins Savannah**

5102 LaRoche Avenue Sevennah, GA 31404 Cux 1280

# Chain of Custody Record



fins

Environment Testing

Phone 912-354-7858 Fax: 912-352-0185									- 3						America.
Client Information (Cub Contract Lab.	Sympler				PM.	Jerry			- į	SO 21.46	98 Chain	of Custo	744 1411    1111	KI I III.	16.1
Client Information (Sub Contract Lab) Clem Contact	Phone:			E-W	23.37	reiry	-			00-2140	90 CHBIN	Di Cus.c	Juy		1B. L
Shipping/Receiving				4,000	rry.La			urofinsu			South C	arolina			Page 1 of 2
Company: Eurofins Environment Testing Northeast,								Required (S		h Camlir	ia: State F	rnoram			Job #: 680-214698-1
Address:	Due Date Requests	id:			1111		110	naa, ota	10 000	ar Caron	a, orate .	-og-airi .		8 3	Preservation Codes:
301 Alpha Drive, RIDC Park,	5/8/2022				L				Analy	/sis Re	quested				A - HCL M - Hexane
Chy Pirtsburgh	TAT Requested (da	ys):		2000-275-27			7,000								B - NaOH N - Norte C Zr Acetale O - AaNaO2
5tale. Ztr. PA, 15238						П						. 11			D - Ninic Acid P - Na2O4S F - NaHSO4 Q - Na2SG3
Phone 412- <b>96</b> 3-7058(Tel) 412-963-2468(Fax)	PD#													8	F - MeOH R - Na25203 G - Amichlor S - H2504 H - Ascorbic Apid T - TSP Dodecatydrate
Emai:	W0 ±:				or No	No.	Mela			1				2	J - Di Water V - MCAA
Project Name: 125915/JM02.08.G01.1/36500	Project ≠ 68:008:190				lo (Yas	95 Of	MOD) 2 ICPMS Melale							confairen	K - EDTA W - pH 4-5 L EDA 2 - other [specify]
Site.	SSOLVW	240			Bamp	SD (Yes	000							5	Other
		Sample	Sample Type (C=comp.	Matrix (vr-star. Serold, Devamented.	#Id Piltared	Perform MSJM	8020Br3010A JA							Total Number	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) a		***	1	20							5	Special Instructions/Note:
AF27221 (680-214698-1)	2/15/22	11:24 Eastam	T TOOL TOOL	Water	T	1	x							1	
AF27222 (680-214698-2)	2/16/22	13:45 Eastern		Water			х							1	
AF27223 (680-214696-3)	3/3/22	11:48 Eastern		Water			x							1	
AF27224 (680-214698-4)	3/2/22	13:54 Eastern		Water			х							1	
AF27225 (680-214698-5)	3/2/22	12:31 Eastern		Water			×							1	
AF27226 (680-214698-6)	9/2/22	11:20 Eastern		Water			х							1	
AF27227 (680-214698-7)	3/2/22	11:25 Eastern		Water			×							1	
AF27228 (660-214698-8)	3/3/22	13:08 Eastern		Water	1		X							1	
AF27229 (680-214698-9)	2/24/22	10:27 Eastern		Water			X							1	
Noter Since laboratory accreditations are subject to change. Eurofins Endoes not currently maintain accreditation in the State of Origin (sites aborditals) about the State of Origin (sites aborditals) and be brought to Eurofins Environment Teating Southeast, LLJ	re for analysis/tests/metrix bee	og analyzed. 1	he samples mus	be shipped	back	to the	Eurofin	ns Environs	nerd Test	ng Southea	si, LLC labo	ratery or oth	er astructio	ore wil	is be provided. Any changes to accreditation
Possible Hezard Identification	11					San	ple I	Disposal	( A fee	may be	ssessed	if sample	es are re	taine	ed longer than 1 month)
Unconfirmed	Frimary Deliver:	hin Basin				Sp.	_	tum To C		 equireme	Disposal &	ly Laö		Archi	ive For Months
Deliverable Requested: J. II, III, IV, Other (specify)			6				CIAN IF	STUCKE	IN LIFE IN	edon en le					
Empty Kit Relinquished by:	- 100 - CD2	Date:	111		Ter	me:		20000000000			Meir	od of Shipm	230 2	4-2	
Refinguished by	Date/Time:	(00)		Company			Recerv	ed by.		) w	1	Date	Time	-	2-22 COMMENTAL
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Relinquished by:	Cate/T-me:		C	Company			Recerv	ed by:				Date	(Timigr		Company
Custody Seels Intact; Custody Seel No.:							Coaler	Temperatu	se(s) °C a	nd Other R	gmarks:				

### **Eurofins Savannah**

5102 LaRoche Avenue Savarinah, GA 31404 Phone: 912-354-7858 Fax: 912-352-0165

# **Chain of Custody Record**

🕸 eurofins

Environment Testing America

Client Information (Sub Contract Lab)	Sampler:			Lani	M. Jei	пу А					Cerrier Track	ang No(s)			DC Ne: 80-692538.2
Clen Consid.	Prote			E-Max	E	**			14400		State of Drig			age:	
Shipping/Receiving Company		i ju					.eurofio Regune			20,007	South Car	SIIIIG			age 2 of 2 b 4.
Eurofins Environment Testing Northeast,					75 600 77 37 77					are§in	a; State Pro	gram		- 20	80-214998-1
Address 301 Alpha Drive, RIDC Park	Gue Date Requests 5/8/2022	d:				97.	1000	Δ	nalvei	e Ro	quested			P	reservation Codes:
City	TAT Requested (da	ys);					ĤŤ	1	la ly Gi	100	Judica	11	111		- HCL M - Fexane - NaOH N - None
Pittsburgh													Ш	C	- Zn Apalate 0 - AaNa02 I- Nitne Aeld P - Na2045
State: 2ip: PA, 15238												1 1		E	- NaHSO4 0 - Na2SO3
Phore	PO #:							ľ.				11	Ш	G	- MeOH R - Na2S2O3 i - Amchipr 5 - M2SiO4
412-963-7058(Tel) 412-963-2468(Fax)	WO#	_	-		No.	Metals		leë.		1 0			Ш	1.	l - Ascorbio Apid
					Yes or	3 Me							Ш	E K	- Di Water V - MCAA EDTA W cH 4-5
Project Namer 125915/JM02.C8.GC1.1/36500	Project ≠ 68008190				7 0 6	ICPM8							Ш		-EDA Z - other (specify)
She	SSOW¥.				Mpt C	12 0		63					Ш	8 0	thes
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			Dominic .	datrix	May .	100	1			1			3	Total Number of	
		Sample	10.750	Secold,	Field Filb	9020BC30				1				Z R	
Sample Identification Client ID (Lab ID)	Sample Date	Time	G=grab) sr-r		P. P.	8									Special Instructions/Note:
	_><	$\geq \leq$	Preservation	Codet	$\times$	4_								X.	
AF27230 (680-214698-10)	2/24/22	10:33 Eastern		Water		X								1	
AF27231 (680-214698->1)	2/23/27	11:22 Eastern		Water		x		2000		T				1	
AF27232 (680-214698-12)	2/24/22	11:44 Eastern		Water		x								1	
AF27233 (680-214698-13)	2/24/22	11:49 Eastern		Wate <sup>*</sup>		Х				T				1	
										T					
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		100			-	+				+		-		+	
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Note: Since laboratory accreditations are subject to change, Eurofins Er	aronmeni Tesling Southeas: L	LC places the	awnership of meth	od. analyle	& accor	ecitato	n compris	nce upb	n out sub-	convec	leteratories.	This samp	e shamer	n is forw	arded under chain-of-custody. If the labor
loss not currently maintain accreditation in the State of Origin Island abo native should be brought to Eurofins Environment Testing Southeast, U.	we for analysis/lests/matrix beid Clemention immediately. It all n	ig analyzed, t equested acc	he samples must be reditations are cum	shipped by an to date, a	nebur. 1	he Euro he sign	ed Chain	or Custo	Testing S ody attesti	egittiga e of gr	t, LLC laboral id complicand	ory or other e to Eurofia	6 Erwiron	meni Te	e provided. Any changes to accreditation sting Southeast, LLC
Possible Hazard Identification		6//	719	1	Se	ample	Dispos	sal ( A	fee me	y be a	ssessed il	sample:	are rei	tained	longer than 1 month)
Uncanlismed						$\Box_{F}$	Return T	o Clier	nt		Xisposal By	Lab		Archive	e For Months
Deliverable Requested, I, II, III, IV, Other (specify)	Primary Delivers	ble Rank:	1		Sp	pecial	Instruct	ions/Q	C Requ	irema	nis:				
Empty Kit Relinquished by:		Date:			Time	:::			~	2000	Method	of Shipme	nt i		-
behaushed by:	OateTime.		Garage Marie	perty		Rex	eived by:		()	1	1	Date/1	IME.	2	22 Company
Reliquished by:	Oale/Time	1 154		ipany	Ħ	Rece	wed by:		V			Date/	me.	-	900 Company
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Custody Seals Intact:   Custody Seal No.:						LYNO	нг тегпре	anum(s)	r Cane C	are: Ri	manks:				250-300
		- 4.00	Pac	e 36 c	f 39	3	10					. 88		85-	Ve6 <b>/9/289</b> 2 (F

## **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: 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	

# 6

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# 477





## **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-214698-1

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	

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## **Accreditation/Certification Summary**

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

### **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	2

Job ID: 680-214698-1











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

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

**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

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: 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-228 Calculation "See Parent 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 a a austala la Tiinn
	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

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 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

Page 6 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: 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

Page 7 of 18 SDG: 571577

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: 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

Page 8 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: 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				
2 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

Page 9 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: 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

Page 10 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: 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

Page 11 of 18 SDG: 571577

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.

Page 12 of 18 SDG: 571577

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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.

Page 13 of 18 SDG: 571577

#### 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

Page 14 of 18 SDG: 571577

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.

Page 15 of 18 SDG: 571577

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>

# **Chain of Custody**

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** य पु Comments Sample Location/ Labworks ID# Matrix(see below) Collection Time **Collection Date** Method # Description (Glass (Internal use Sample Collector Total If of container 328 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 Relinquished by: **Employee#** Preservative Lot#: 505 65C 2-25-20 Relinquished by: 130 Time 2.15-12 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



CEE 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





March 22, 2022

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

RE: Project: 121567

Pace Project No.: 92592709

#### Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 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
Pace Project No.: 92592709

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
Pace Project No.: 92592709

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92592709001	AF2713	EPA 7470A	DBB1	1	PASI-A
92592709002	AF27226	EPA 7470A	DBB1	1	PASI-A
92592709003	AF27227	EPA 7470A	DBB1	1	PASI-A
92592709004	AF27225	EPA 7470A	DBB1	1	PASI-A
92592709005	AF27224	EPA 7470A	DBB1	1	PASI-A
92592709006	AF27228	EPA 7470A	DBB1	1	PASI-A
92592709007	AF27223	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

M1

03/16/22 13:10 03/22/22 10:49 7439-97-6



#### **ANALYTICAL RESULTS**

Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Mercury

Sample: AF2713 Lab ID: 92592709001 Collected: 03/07/22 10:37 Received: 03/10/22 10:30 Matrix: Water Parameters CAS No. Results Units Report Limit DF Prepared Analyzed Qual 7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville

0.20

ND

ug/L



Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Sample: AF27226 Lab ID: 92592709002 Collected: 03/02/22 11:20 Received: 03/10/22 10:30 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 03/16/22 13:10 03/22/22 10:55 7439-97-6



Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Sample: AF27227 Lab ID: 92592709003 Collected: 03/02/22 11:25 Received: 03/10/22 10:30 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 03/16/22 13:10 03/22/22 10:57 7439-97-6



Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Sample: AF27225 Lab ID: 92592709004 Collected: 03/02/22 12:31 Received: 03/10/22 10:30 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 03/16/22 13:10 03/22/22 10:59 7439-97-6



Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Sample: AF27224 Lab ID: 92592709005 Collected: 03/02/22 13:54 Received: 03/10/22 10:30 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 03/16/22 13:10 03/22/22 12:06 7439-97-6

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



Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Sample: AF27228 Lab ID: 92592709006 Collected: 03/03/22 11:48 Received: 03/10/22 10:30 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 03/16/22 13:10 03/22/22 11:08 7439-97-6



Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

 Sample: AF27223
 Lab ID: 92592709007
 Collected: 03/03/22 13:06
 Received: 03/10/22 10:30
 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 03/16/22 13:10 03/22/22 11:10 7439-97-6



#### **QUALITY CONTROL DATA**

Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

QC Batch: 684337 Analysis Method: EPA 7470A

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

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92592709001, 92592709002, 92592709003, 92592709004, 92592709005, 92592709006, 92592709007

METHOD BLANK: 3579215 Matrix: Water

Associated Lab Samples: 92592709001, 92592709002, 92592709003, 92592709004, 92592709005, 92592709006, 92592709007

Blank Reporting Result Limit

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Mercury
 ug/L
 ND
 0.20
 03/22/22 10:45

LABORATORY CONTROL SAMPLE: 3579216

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury ug/L 2.3 92 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3579217 3579218

MS MSD 92592709001 Spike Spike MS MSD MS MSD % Rec Parameter Units Result % Rec Limits Result Conc. Conc. Result % Rec **RPD** Qual ug/L ND 2.5 2.5 1.8 68 Mercury 1.9 71 75-125 5 M1

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

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



#### **QUALIFIERS**

Project: 121567
Pace Project No.: 92592709

#### **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: 03/22/2022 04:54 PM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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



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

Project: 121567
Pace Project No.: 92592709

Date: 03/22/2022 04:54 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92592709001	AF2713	EPA 7470A	684337	EPA 7470A	685379
92592709002	AF27226	EPA 7470A	684337	EPA 7470A	685379
92592709003	AF27227	EPA 7470A	684337	EPA 7470A	685379
92592709004	AF27225	EPA 7470A	684337	EPA 7470A	685379
92592709005	AF27224	EPA 7470A	684337	EPA 7470A	685379
92592709006	AF27228	EPA 7470A	684337	EPA 7470A	685379
92592709007	AF27223	EPA 7470A	684337	EPA 7470A	685379

-		
79.	1	
11	ace Analyti	cal
2-1		

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

F-CAR-CS-033-Rev.08

Fage 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Document Revised: November 15, 2021 Page 1 of 2

Laboratory receiving samples:

Project Manager SRF Review:

Asherville Eden Greenwood	Hunte	rsville	Ral	eigh[	Mechanicsville Atlanta Kernersville ☐
Sampale Condition Client Name: Upon Receipt Sunta	(m.	pc-	_	Proj	ect#: WO#: 92592709
Courter: Fed Ex Qups Commercial Desce		P\$		Client	92592709
Custody Seal Present? Yes No Seals I		∐Ye	s ÆN	0	Date/Initials Person Examining Contents: 63/10/2
Packing (Vaterial: Bubble Wrap Bubb	ofe Bags	No	ne [].	Other	Biological Tissue Frozen?
Thermore eter:    TR Gue   B:   93702     Correction Factor:	Type of i		Wet [	ßlue .	Mone Yes No N/A
Cooler Teamp: Add/Subtract (°C): Add/Subtract (°C):	0		<del></del> -		Temp should be above freezing to 6°C
USDA Regulated Soil \ N/A, water sample)					
Did samples originate in a quarantine zone within the United	States: CA	, NY, ac	SC (check m	aps}?	Did samples originate from a foreign source (Internationally, Including Hawaii and Puerto Rico)? [[Yes ] No
					Comments/Discrepancy:
Chain of Custody Present?	□\xes	□No	□N/A	1.	
Sampales Arrived within Hold Time?		□No	□n/a	2.	
Short Hold Time Analysis (<72 hr.)?	☐Yes	No	□n⊅A	3.	
Rush Turn Around Time Requested?	☐Yes	ZNo	□N/A	4.	
Sufflicient Volume?	MES	No	□N/A	5.	
Corre-ct Containers Used? -Parce Containers Used?	Yes OYes	□N <sub>0</sub>	_ □N/A □N/A	·6.	
Containers Intact?	Yes	□No	□N/A	7.	
Disso I ved analysis: Samples Field Filtered?	□Yes_	□No	DINIA	8	
Samp le Labels Matchi CDC?	NYes ~	□No	□n/a	9.	
-in cludes Oate/Time/IO/Analysis Matrix: L	<u> </u>				
Heads pace in VOA Vi als (>5-6mm)? Trip Blank Present?	Yes	□No	IN/A	10.	
	☐Yes:	∏No	DIMZA	11.	
Trip Blank Custody Seals Present?	Yes	סַא	CIMA		· · · · · · · · · · · · · · · · · · ·
COMMETATS/SAMPLE DISCREPANCY		•			Fleld Data Required? ☐Yes ☐No
CLIENT NOTIFICATION/RESOLUTION				Lot	ID of split containers:
Person contacted:			Date/Tin	ne:	
Project Manager SCLIRF Review:	·		<b></b>		Date:

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 simples.

Exeptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg \*Bot tom half of box is to list number of bottles

Project #

Due Date: 03/24/22

CLIENT: 97-SanteeCoo

-	-1-	-	T		1	7	1-	1	_																				
	BP4U-125 mt. Plassic Unpreserved (N/At/CL.)	Box1, 200 mm m.	or su-coe mr. Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	8P45-125 mL Plastic H2504 (p.H.< 2) (GI-)	BP3N-250 mt plastic HNO3 (pH < 2)	BP42-125 ml Plastic ZN Acetate & Nooh (>9)	8848-125,mL Plastic NaOH (pH > 12) (CL-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AGAU-1 liter Amber Unpreserved (N/A) (CJ-)	AGIH-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	AGRANDGRAN-250 mt. Amber NH4CI (N/A)(CI-)	DG9H-48 mt. VOA HCF(N/A)	VG9T-40 mt VOA N825203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mt VØA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK.(3 vials per kit)-VPH/Bas kit (N/A)	SPST-125 mL Sterile Riastic (N/A-1ab)	SPZT-250 mL Sterile Piastic IN/A – Igb)		BP3A-250 mt, Plaștic (NH2)2504 (9.3-9.7)	AGQU-100 mL Amber Unpreserved vials (N/A)	VSGJJ-20 mL,Salnüllatian vJals (N/A)	DG9U-40.mL Amber Unpreserved vials (N/a)
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4	/	-	+	+	1	$\mathcal{A}$	1	1	+			1	-	X	X	4	+	-	-	1	1	1	-		V	4		_	
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Note: Whe never there is a cliscrepancy affecting North Carolina compilance 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.

adjusted

added

# **Chain of Custody**



Santee Cooper One Riverwood Drive Moneks Comer, BC 29461 Plione: (843)761-8000 Ext; 5148 Fax: (843)761-4175

Customer Ema	il/Report Recipient:	Date Resu	ilts Needed by:	Project	/Task/Unit #:	Rerun request for any flagged QC							
COMICTIV	@santeecooper.com	_:_/_	<u></u> .	121567 JM	102.09.691 / 365	∞ (Ves)	No						
TURNESS PROMOTERS DAY		*			9259	2709	Analysis Group						
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		ē			Robbindelli Mac salinde								
		S					<b>む</b>						
AF27213	WAF -20	8/7/22 K	237 BSB	P G GW	2 7470	. 001	X						
AF27226	WLF-14-4	3/2/22 11	20			002							
27	WLF-A1-4 DUP	11:	25			003							
2.5	WLF-AI-3	12	.34 J			.004							
24	WLF-A-1-2	] ]18	154			005							
18	WLF-AL-5	3/3/22 114	+8			0.06							
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DELETE STORE	WASHING VIEW			1	Carlotte Comment	. <b>C</b> .	1000						











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

gel.com

April 04, 2022

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

Re: ABS Lab Analytical Work Order: 572527

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 08, 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: 398684

Enclosures



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

# Certificate of Analysis Report for

# SOOP001 Santee Cooper

Client SDG: 572527 GEL Work Order: 572527

#### 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.

	11.	
	Mim Orgse	
	,	
Reviewed by		

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: April 4, 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: AF27228
Sample ID: 572527001
Matrix: Ground Water
Collect Date: 03-MAR-22 11:48
Receive Date: 08-MAR-22

08-MAR-22 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid "	As Received"										
Radium-228	U	0.668	+/-1.00	1.75	3.00	pCi/L		JXC9 03	3/31/22	1039 2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		1.45	+/-1.07			pCi/L		NXL1 03	3/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liqi	Lucas Cell, Ra226, Liquid "As Received"										
Radium-226		0.779	+/-0.371	0.466	1.00	pCi/L		LXP1 03	3/23/22	1026 2238657	3
The following Analytical Methods were performed:											
Method	Description					1	Analys	st Comments			

					AND
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
3 EPA	903.1 Modified				
2 Carc	uiation				

Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 60.7 (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

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 12 SDG: 572527

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

**Certificate of Analysis** 

Report Date: April 4, 2022

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

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF27223
Sample ID: 572527002
Matrix: Ground Water
Collect Date: 03-MAR-22 13:06
Receive Date: 08-MAR-22

Client

Client ID: SOOP001

SOOP00119

Project:

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		2.66	+/-1.18	1.63	3.00	pCi/L		JXC9	03/31/22	1039 2238666	1
Radium-226+Radium-2	28 Calculation	n "See Pai	rent Products"								
Radium-226+228 Sum		3.47	+/-1.22			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		0.805	+/-0.303	0.212	1.00	pCi/L		LXP1	03/23/22	1026 2238657	3
The following Analytic	al Methods w	ere perfor	med:								
Method Description Analyst Comments											

3 EPA	A 903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80	(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

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 12 SDG: 572527

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

**Certificate of Analysis** 

Project:

Client ID:

Report Date: April 4, 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: AF27213
Sample ID: 572527003
Matrix: Ground Water
Collect Date: 07-MAR-22 10:37
Receive Date: 08-MAR-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analys	st Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid ".	As Received"										
Radium-228		5.83	+/-1.66	1.98	3.00	pCi/L		JXC9	03/31/22	1039 2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"											
Radium-226+228 Sum		8.15	+/-1.74			pCi/L		NXL1	03/31/22	1508 2238665	2
Rad Radium-226											
Lucas Cell, Ra226, Liquid "As Received"											
Radium-226		2.32	+/-0.523	0.281	1.00	pCi/L		LXP1	03/23/22	1026 2238657	3
The following Analytic	The following Analytical Methods were performed:										

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	<u>.</u>
	10 min 4 min 10 4 min 2	

2 Calculation 3 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

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

69.9 (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

Page 5 of 12 SDG: 572527

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

**QC Summary** 

Report Date: April 4, 2022

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact: Ms. Jeanette Gilmetti

Workorder: 572527

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range A	Anlst	Date Time
Rad Gas Flow Batch 2238666	81										-
QC1205036858 572251001 Radium-228	DUP		3.88		3.94	pCi/L	1.46		(0% - 100%)	JXC9	03/31/22 10:37
		Uncertainty	+/-1.33		+/-1.30						
QC1205036859 LCS Radium-228		46.6			40.0	pCi/L		86	(75%-125%)		03/31/22 10:37
Kadidiii-228		Uncertainty			+/-3.81	рсил		80	(73%-123%)		03/31/22 10.37
QC1205036857 MB											
Radium-228		Uncertainty			2.03 +/-1.27	pCi/L					03/31/22 10:37
Rad Ra-226 Batch 2238657	2										
QC1205036840 572251001	DUP						sus trong		32 FF T2 T10	10000000000000000000000000000000000000	
Radium-226		Uncertainty	2.77 +/-0.605		2.70 +/-0.521	pCi/L	2.27		(0%-20%)	LXPI	03/23/22 10:26
QC1205036842 LCS		2004			22.2	G: A		07.0	(750/ 1250/)		02/22/22 10/26
Radium-226		26.4 Uncertainty			23.2 +/-1.56	pCi/L		87.8	(75%-125%)		03/23/22 10:26
QC1205036839 MB					ST AND	- 1 -					
Radium-226		Uncertainty		U	0.412 +/-0.306	pCi/L					03/23/22 10:26
QC1205036841 572251001	MS										
Radium-226		133 Uncertainty	2.77 +/-0.605		104 +/-7.59	pCi/L		76.6	(75%-125%)		03/23/22 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.

Page 6 of 12 SDG: 572527

Page 1 of 2

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

# **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

572527

- 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 either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

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

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

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

Page 7 of 12 SDG: 572527

#### Technical Case Narrative Santee Cooper SDG #: 572527

### **Radiochemistry**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified Analytical Procedure: 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
572527001	AF27228
572527002	AF27223
572527003	AF27213
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.

Sample	Analyte	Value
1205036857 (MB)	Radium-228	Result: 2.03 pCi/L > MDA: 1.91 pCi/L <= RDL: 3.00 pCi/L

#### **Technical Information**

#### Recounts

Samples were re-eluted and recounted to verify sample results. The recounts are reported.

Page 8 of 12 SDG: 572527

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

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

**Analytical Batch:** 2238657

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

<b>GEL Sample ID#</b>	Client Sample Identification
572527001	AF27228
572527002	AF27223
572527003	AF27213
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) and 1205036842 (LCS) were degassed and recounted to verify sample results. The recount results are similar to the original results. Original results are reported

#### **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 9 of 12 SDG: 572527

Chain of Custody 572527



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

Customer Email/Report Recipient: Da				Date Results Needed by: Project/Task/Unit #:									Rerun request for any flagged Q			
LCWILLIA	@santeeco	ooper.com		' <i>'</i>			1215	567	<u> </u>	102.1	9.GØ1	7 3620	Yes	No		
			£	100										E	\nalysi	is Group
Labworks ID # (Internal use only)	Sample Location Description		Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see	Me     Rej     Mi     An	Comme thod # porting limit sc. sample info y other notes		PAD 226	RAD 228	
AF27228	WLF-A1-5	`	3/3/22	1148	BRT BSB	2	P	G	ew	2				X	X	Х
2-2-3	WLF-AI-I		1	1304	Ì		1	1		1			1 5 1	\		
213	WAP-20		3/7/22	1037	1									L		
												<del></del>				
			marke.					v		gr Y.,	s 8 * .					
			e sal est sala e					20			\$ 3°					
					2											
Relinquished by:	Employee#	Date	Time	Receiv	red by:	Er	nployee	#	Date		Time		ceiving (Internal C):			
29Brown	35594	3/8/22	0931	SIF	1		GEL	3	3/8/2	2	1890				•	
Relinquished by:	Employee#	Date	Time	Receiv	ed by:	Er	nployee	#	Date		Time	Correct p	part of the second			
Kellinguished by:	Employee#	18.22 Date	1706 Time	Receiv	ed by:		nployee		3 / 8 / 8 Date		1706 Time	rreservat	IVE LOU#:			
-			1. P./									Date/Time	e/Init for preserv	ative:		
□ Ag □ Co □ Ni □ Co □ Pb	e □ Se □ Sn □ Sr □ G □ Ti □ Tl □ V □ □ Zn □ Hg	Nutr 1 Too 1 Doo 2 FF Nutr F Cl No. Bi No. 1 Sod	(PO4 1-10 1-10	MIS  Daybale  Naphale  THM/HL  VOC  Oil & Gr  E. Coli  Total Co  ph  Dissolve  Rad 226  Rad 228  PCB	ene AA rease liform d As d Fe		Wallburgsperiod (Salabata) Alice (Salaba	stitts(a ne) M C tal meta table M ity (Ca Vioista Incs	// ik etals SOA)	000000000000000000000000000000000000000	Coal Ultimate  Whois  Ash I Sulfur  BYUS Volatile CHN ther Tests: XRF Scan HOI Fineness Particulate M	Matter 5	Fivash Ammonia LOI % Carbon Mineral Analysis Sieve % Moisture  NPDES Outer Greate As TSS	CARTER CONTROL OF THE	Many control of the c	t (juri) kuta Svorijih ul (jusea



SAMPLE RECEIPT & REVIEW FORM

Client: SaaP			DG/AR/COC/Work Order: 572527									
Received By: STACY BOON	JE		Date Received: MARCH 9, 2022									
Carrier and Tracking Number			Citcle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other									
Suspected Hazard Information	Yes	ž	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.									
A)Shipped as a DOT Hazardous?			lazard Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo									
B) Did the client designate the samples are to be received as radioactive?			OC notation or radioactive stickers on containers equal client designation.									
C) Did the RSO classify the samples as radioactive?			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?			DC notation or hazard labels on containers equal client designation.  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 ,	Yes	NA	Comments/Qualifiers (Required for Non-Conforming Items)									
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 #:									
5 Sample containers intact and sealed?	/		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)									
6 Samples requiring chemical preservation at proper pH?	/		Sample ID's and Containers Affected:  If Preservation added, Lot#:									
7 Do any samples require Volatile Analysis?			If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer)  Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)  Are liquid VOA vials free of headspace? YesNoNA  Sample ID's and containers affected:									
8 Samples received within holding time?	- Control		1D's and tests affected:									
9 Sample ID's on COC match ID's on bottles?			ID's and containers affected:									
10 Date & time on COC match date & time on bottles?			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)									
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?  12 COC form is properly signed in			Circle Applicable: Not relinquished Other (describe)									
relinquished/received sections?  Comments (Use Continuation Form if needed):												
PM (or PM.	A) re	view	Initials NRG Date 31022 Page of									

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 04 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
wasimigion	C/60





## **Laboratory Services**

### **Laboratory Report**

Client Santee Cooper

Sherri Brown 1 Riverwood Dr.

Moncks Corner, SC 29461

Project: Work Order: Received: Ground Water

22H0795

08/12/2022 09:20

#### 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 12, 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 Lauren Hollister, your Project Manager, at lhollister@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Lauren Hollister

Lauren Hollister Project Manager





## **Certificate of Analysis**

Client Santee Cooper

Sherri Brown 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:** 22H0795

**Received:** 08/12/2022 09:20

Sample Number	Sample Description	Matrix	Sampled	Type
22H0795-01	AF39101 Pen Creek 1	Surface Water	07/12/22 09:45	Grab
22H0795-02	AF39102 Low Turk	Surface Water	07/12/22 10:24	Grab
22H0795-03	AF39103 Mid Turk	Surface Water	07/12/22 10:31	Grab
22H0795-04	AF39104 Up Turk	Surface Water	07/12/22 10:45	Grab
22H0795-05	AF39105 Pen Creek 2	Surface Water	07/12/22 11:30	Grab
22H0795-06	AF40205 STI-2	Ground Water	08/03/22 11:25	Grab
22H0795-07	AF40207 STI-4A	Ground Water	08/03/22 12:29	Grab
22H0795-08	AF40208 STI-5	Ground Water	08/03/22 13:28	Grab
22H0795-09	AF40206 STI-3	Ground Water	08/03/22 14:22	Grab
22H0795-10	AF40204 STI-1	Ground Water	08/03/22 15:24	Grab
22H0795-11	AF41630 WLF-A2-1	Ground Water	08/08/22 10:54	Grab
22H0795-12	AF41631 WLF-A2-1 DUP	Ground Water	08/08/22 10:59	Grab
22H0795-13	AF41632 WLF-A2-2	Ground Water	08/08/22 12:15	Grab
22H0795-14	AF41640 WLF-A2-6	Ground Water	08/08/22 13:25	Grab
22Н0795-15	AF41635 WLF-A1-2	Ground Water	08/08/22 14:25	Grab
22H0795-16	AF41636 WLF-A1-3	Ground Water	08/08/22 15:27	Grab
22Н0795-17	AF41633 WBW-A1-1	Ground Water	08/09/22 10:28	Grab
22H0795-18	AF41637 WLF-A1-4	Ground Water	08/09/22 13:59	Grab
22H0795-19	AF41638 WLF-A1-4 DUP	Ground Water	08/09/22 14:04	Grab
22H0795-20	AF41639 WLF-A1-5	Ground Water	08/09/22 11:38	Grab
22H0795-21	AF41634 WLF-A1-1	Ground Water	08/09/22 12:51	Grab
22H0795-22	AF41641 WAP-7	Ground Water	08/09/22 14:55	Grab



#### **Case Narrative**

#### Revised Report.

Revised report to include all metals results. This report replaces the one generated on 9/14/22 at 16:42.



#### Sample Data

Sample Number

22H0795-01

Sample Description

AF39101 Pen Creek 1 collected on 07/12/22 09:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.010	mg/L	2.00	09/09/22 23:14	EPA 6020B	X	ЛР	B2H1696	RC-G
Lithium	38	10	ug/L	1.00	08/16/22 18:09	EPA 6010D	S1	CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:09	EPA 6010D		CAL	B2H1705	RC-G
Rebatch Sample Number: 22H0795-01RE1 Lithium	38	10	ug/L	1.00	09/01/22 12:12	EPA 6010D		КТН	B2H2214	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.010	mg/L	2.00	09/09/22 23:19	EPA 6020B	X	ЛР	B2H1696	RC-G

Sample Number

22H0795-02

Sample Description AF39102 Low Turk collected on 07/12/22 10:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:49	EPA 6020B		JIP	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:15	EPA 6020B		ЛР	B2H1696	RC-G

Sample Number
Sample Description

22H0795-03

Sample Description AF39103 Mid Turk collected on 07/12/22 10:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:54	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	12	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenie, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:20	EPA 6020B		ЛР	B2H1696	RC-G



Sample Number 22H0795-04

Sample Description AF39104 Up Turk collected on 07/12/22 10:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:59	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:25	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-05

Sample Description AF39105 Pen Creek 2 collected on 07/12/22 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:04	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	43	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:30	EPA 6020B		ЛР	B2H1696	RC-G

Sample Number

22H0795-06

Sample Description AF40205 STI-2 collected on 08/03/22 11:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:45	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:04	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.005	mg/L	1.00	09/16/22 16:14	EPA 6020B		ЛР	B2H1696	RC-G
Iron	0.21	0.050	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 21:29	EPA 6020B		ЛР	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:16	EPA 6020B		ЛР	B2H2227	RC-G



Sample Number 22H0795-07

Sample Description AF40207 STI-4A collected on 08/03/22 12:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:39	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	0.112	0.005	mg/L	1.00	08/26/22 23:17	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.27	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.005	mg/L	1.00	09/16/22 16:28	EPA 6020B		JIP	B2H1696	RC-G
Iron	31	2.5	mg/L	50.0	08/16/22 21:07	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.005	mg/L	1.00	09/09/22 22:07	EPA 6020B		JIP	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:19	EPA 6020B		JIP	B2H2227	RC-G

Sample Number

22H0795-08

Sample Description AF40208 STI-5 collected on 08/03/22 13:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:48	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:23	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.034	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:39	EPA 6020B	X	ЛР	B2H1696	RC-G
Iron	24	0.25	mg/L	5.00	08/16/22 21:18	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:24	EPA 6020B	X	ЛР	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6020B		ЛР	B2H2227	RC-G



Sample Number 22H0795-09

Sample Description AF40206 STI-3 collected on 08/03/22 14:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:51	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:28	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.020	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:44	EPA 6020B	X	ЛР	B2H1696	RC-G
Iron	2.6	0.25	mg/L	5.00	08/16/22 21:58	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:29	EPA 6020B	X	ЛР	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 13:52	EPA 6020B		ЛР	B2H2227	RC-G

Sample Number

22H0795-10

Sample Description AF40204 STI-1 collected on 08/03/22 15:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:54	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:33	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.025	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:49	EPA 6020B	X	ЛР	B2H1696	RC-G
Iron	0.31	0.050	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:34	EPA 6020B	X	ЛР	B2H1696	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:25	EPA 6020B		JIP	B2H2227	RC-G



Sample Number 22H0795-11

Sample Description AF41630 WLF-A2-1 collected on 08/08/22 10:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:57	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		ЛР	B2H1696	RC-G
Arsenic	0.109	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.062	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Beryllium	ND	0.002	mg/L	5.00	09/16/22 21:54	EPA 6020B	X	JIP	B2H1696	RC-G
Boron	1400	15	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Calcium	89	2.5	mg/L	50.0	08/16/22 22:36	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:54	EPA 6020B	X	ЛР	B2H1696	RC-G
Cobalt	ND	0.005	mg/L	5.00	09/16/22 21:54	EPA 6020B	X	ЛР	B2H1696	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.7	0.050	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lithium	37	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.010	mg/L	2.00	09/09/22 23:38	EPA 6020B	X	ЛР	B2H1696	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:37	EPA 6020B		ЛР	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G



Sample Number 22H0795-12

Sample Description AF41631 WLF-A2-1 DUP collected on 08/08/22 10:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 10:05	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		ЛР	B2H1696	RC-G
Arsenic	0.107	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.058	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Beryllium	ND	0.002	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	ЛР	B2H1696	RC-G
Boron	1300	15	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Calcium	81	2.5	mg/L	50.0	08/16/22 22:39	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	ЛР	B2H1696	RC-G
Cobalt	ND	0.005	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	ЛР	B2H1696	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.6	0.050	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lithium	34	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.025	mg/L	5.00	09/16/22 21:59	EPA 6020B	X	ЛР	B2H1696	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:42	EPA 6020B		ЛР	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G



Sample Number 22H0795-13

Sample Description AF41632 WLF-A2-2 collected on 08/08/22 12:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:31	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.289	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Beryllium	ND	0.002	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Boron	2100	15	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Calcium	150	2.5	mg/L	50.0	08/16/22 23:20	EPA 6010D		CAL	B2H1705	RC-G
Chromium	ND	0.025	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Cobalt	ND	0.005	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Iron	4.2	0.050	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lithium	140	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Selenium	ND	0.025	mg/L	5.00	09/16/22 22:04	EPA 6020B	X	JIP	B2H1696	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Zinc	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G

Sample Number 2

22H0795-14

Sample Description AF41640 WLF-A2-6 collected on 08/08/22 13:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Boron	380	15	ug/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Calcium	130	2.5	mg/L	50.0	08/16/22 23:24	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.47	0.050	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	7.6	0.25	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.059	0.010	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	5.2	0.10	mg/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Sodium	5.5	0.50	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	0.47	0.050	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.060	0.020	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G



Ground Water Santee Cooper Project: 1 Riverwood Dr. Work Order: 22H0795 Moncks Corner, SC 29461 09/21/22 13:34 Reported:

22H0795-15 Sample Number

**Sample Description** AF41635 WLF-A1-2 collected on 08/08/22 14:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	120	15	ug/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Calcium	33	2.5	mg/L	50.0	08/17/22 00:04	EPA 6010D		CAL	B2H1705	RC-G
Iron	3.4	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	0.87	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.034	0.010	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	0.47	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.2	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	3.6	0.050	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.037	0.020	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G

22H0795-16 Sample Number

**Sample Description** AF41636 WLF-A1-3 collected on 08/08/22 15:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Boron	170	15	ug/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Calcium	18	0.25	mg/L	5.00	08/17/22 00:15	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.48	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Magnesium	0.49	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.023	0.010	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Potassium	0.54	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.3	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	0.46	0.050	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G
Manganese, Dissolved	0.022	0.020	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G



Sample Number 22H0795-17

Sample Description AF41633 WBW-A1-1 collected on 08/09/22 10:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	56	15	ug/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Calcium	92	2.5	mg/L	50.0	08/17/22 17:21	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.9	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	3.4	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.048	0.010	mg/L	1.00	08/17/22 17:28	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	5.0	0.10	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Sodium	14	0.50	mg/L	5.00	08/17/22 17:25	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	3.8	0.050	mg/L	1.00	08/17/22 19:37	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.049	0.020	mg/L	1.00	08/17/22 19:37	EPA 6010D	Z	KTH	B2H1706	RC-G

Sample Number 22H0795-18

Sample Description AF41637 WLF-A1-4 collected on 08/09/22 13:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	270	15	ug/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Calcium	93	2.5	mg/L	50.0	08/17/22 17:58	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.089	0.010	mg/L	1.00	08/17/22 18:05	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.6	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	2.6	0.050	mg/L	1.00	08/17/22 19:48	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.089	0.020	mg/L	1.00	08/17/22 19:48	EPA 6010D	Z	KTH	B2H1706	RC-G



Sample Number 22H0795-19

Sample Description AF41638 WLF-A1-4 DUP collected on 08/09/22 14:04

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	260	15	ug/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Calcium	89	2.5	mg/L	50.0	08/17/22 18:15	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.9	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.096	0.010	mg/L	1.00	08/17/22 18:22	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.8	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	2.8	0.050	mg/L	1.00	08/17/22 20:11	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.11	0.020	mg/L	1.00	08/17/22 20:11	EPA 6010D	Z	KTH	B2H1706	RC-G

Sample Number 22H0795-20

Sample Description AF41639 WLF-A1-5 collected on 08/09/22 11:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Boron	1800	15	ug/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Calcium	310	25	mg/L	500	08/17/22 18:39	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.8	0.050	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	30	2.5	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G
Manganese	1.1	0.010	mg/L	1.00	08/17/22 18:50	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	8.7	0.10	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Sodium	23	5.0	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	3.0	0.050	mg/L	1.00	08/17/22 20:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	1.1	0.020	mg/L	1.00	08/17/22 20:22	EPA 6010D	Z	KTH	B2H1706	RC-G



Sample Number 22H0795-21

Sample Description AF41634 WLF-A1-1 collected on 08/09/22 12:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	910	15	ug/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Calcium	390	25	mg/L	500	08/17/22 14:28	EPA 6010D		KTH	B2H1714	RC-G
Iron	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.93	0.010	mg/L	1.00	08/17/22 14:38	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	<b>5.</b> 7	0.10	mg/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Sodium	9.5	0.50	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G
Dissolved Metals										
Iron, Dissolved	9.5	2.5	mg/L	50.0	08/17/22 18:56	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.96	0.020	mg/L	1.00	08/17/22 19:00	EPA 6010D	Z	KTH	B2H1714	RC-G

Sample Number 22H0795-22

Sample Description AF41641 WAP-7 collected on 08/09/22 14:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Boron	4000	15	ug/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Calcium	690	25	mg/L	500	08/17/22 14:45	EPA 6010D		KTH	B2H1714	RC-G
Iron	0.19	0.050	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	16	0.25	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.51	0.010	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Sodium	15	0.50	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Dissolved Metals										
Iron, Dissolved	0.29	0.050	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.51	0.020	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G



Santee Cooper Project: Ground Water 1 Riverwood Dr. Work Order: 22H0795 Moncks Corner, SC 29461 09/21/22 13:34 Reported:

#### **Total Metals Quality Control Summary**

	]	Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1696 - EPA 3005A	Mod										
Blank (B2H1696-BLK1)											
Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Chromium	ND	0.005	mg/L								RC-G
Cobalt	ND	0.001	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Гhallium	ND	0.002	mg/L								RC-G
LCS (B2H1696-BS1)											
Antimony	0.323	0.005	mg/L	0.200		161	80-120			L	RC-G
Arsenic	0.211	0.005	mg/L	0.200		106	80-120				RC-G
Chromium	0.224	0.005	mg/L	0.200		112	80-120				RC-G
Cobalt	0.224	0.001	mg/L	0.200		112	80-120				RC-G
Selenium	0.232	0.005	mg/L	0.200		116	80-120				RC-G
Thallium	0.199	0.002	mg/L	0.200		100	80-120				RC-G
Matrix Spike (B2H1696-MS1)	Source: 22H	10795-06									
Antimony	0.367	0.005	mg/L	0.200	ND	183	75-125			Za	RC-G
Arsenic	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
Chromium	0.227	0.005	mg/L	0.200	ND	113	75-125				RC-G
Cobalt	0.218	0.001	mg/L	0.200	ND	109	75-125				RC-G
Selenium	0.212	0.005	mg/L	0.200	ND	104	75-125				RC-G
Гhallium	0.197	0.002	mg/L	0.200	ND	98	75-125				RC-G
Matrix Spike (B2H1696-MS2)	Source: 22H	10795-07									
Antimony	0.399	0.005	mg/L	0.200	ND	200	75-125			Za	RC-G
Arsenic	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
Chromium	0.221	0.005	mg/L	0.200	ND	110	75-125				RC-G
Cobalt	0.214	0.001	mg/L	0.200	ND	107	75-125				RC-G
Selenium	0.210	0.005	mg/L	0.200	ND	105	75-125				RC-G
Challium	0.184	0.002	mg/L	0.200	ND	92	75-125				RC-G
Matrix Spike Dup (B2H1696-MSD1)	Source: 22H	10795-06									
Antimony	0.361	0.005	mg/L	0.200	ND	180	75-125	2	20	Za	RC-G
Arsenic	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
Chromium	0.220	0.005	mg/L	0.200	ND	109	75-125	3	20		RC-G
Cobalt	0.216	0.001	mg/L	0.200	ND	108	75-125	ī	20		RC-G



## Total Metals **Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H1696 - EPA 3005A	Mod										
Matrix Spike Dup (B2H1696-MSD1)	Source: 22H	10795-06									
Selenium	0.213	0.005	mg/L	0.200	ND	105	75-125	0.6	20		RC-G
Γhallium	0.195	0.002	mg/L	0.200	ND	97	75-125	1	20		RC-G
Matrix Spike Dup (B2H1696-MSD2)	Source: 22I	10795-07									
Antimony	0.374	0.005	mg/L	0.200	ND	187	75-125	7	20	Za	RC-G
Arsenic	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
Chromium	0.213	0.005	mg/L	0.200	ND	106	75-125	4	20		RC-G
Cobalt	0.208	0.001	mg/L	0.200	ND	104	75-125	3	20		RC-G
Selenium	0.217	0.005	mg/L	0.200	ND	108	75-125	3	20		RC-G
Thallium	0.174	0.002	mg/L	0.200	ND	87	75-125	5	20		RC-G
Batch B2H1705 - EPA 3005A											
Blank (B2H1705-BLK1)											
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
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
Manganese	ND	0.010	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 (B2H1705-BS1)											
Barium	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Boron	500	15	ug/L	500		99	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Copper	0.51	0.005	mg/L	0.500		102	80-120				RC-G

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## Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
LCS (B2H1705-BS1)											
Iron	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Lead	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	505	10	ug/L	500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G
Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		98	80-120				RC-G
Zinc	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Matrix Spike (B2H1705-MS1)	Source: 22I	10795-01									
Barium	0.57	0.010	mg/L	0.500	0.074	99	75-125				RC-G
Boron	1300	15	ug/L	500	780	101	75-125				RC-G
Cadmium	0.52	0.004	mg/L	0.500	ND	104	75-125				RC-G
Copper	0.58	0.005	mg/L	0.500	0.020	111	75-125				RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125				RC-G
Lithium	756	10	ug/L	500	38	144	75-125			S1	RC-G
Manganese	0.86	0.010	mg/L	0.500	0.35	102	75-125				RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125				RC-G
Nickel	0.48	0.010	mg/L	0.500	0.014	93	75-125				RC-G
Zinc	0.47	0.010	mg/L	0.500	0.011	92	75-125				RC-G
Matrix Spike (B2H1705-MS2)	Source: 22I	H0795-02									
Barium	0.57	0.010	mg/L	0.500	0.065	101	75-125				RC-G
Boron	3000	15	ug/L	500	2500	112	75-125				RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125				RC-G
Copper	0.53	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125				RC-G
Lithium	590	10	ug/L	500	11	116	75-125				RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	103	75-125				RC-G
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	18	0.10	mg/L	5.00	11	124	75-125				RC-G

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## Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
Matrix Spike (B2H1705-MS2)	Source: 22I	H0795-02									
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Matrix Spike Dup (B2H1705-MSD1)	Source: 22I	H0795-01									
Barium	0.58	0.010	mg/L	0.500	0.074	100	75-125	1	20		RC-G
Boron	1300	15	ug/L	500	780	103	75-125	1	20		RC-G
Cadmium	0.53	0.004	mg/L	0.500	ND	105	75-125	1	20		RC-G
Copper	0.59	0.005	mg/L	0.500	0.020	113	75-125	2	20		RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Lead	0.47	0.010	mg/L	0.500	ND	94	75-125	1	20		RC-G
Lithium	765	10	ug/L	500	38	145	75-125	1	20	S1	RC-G
Manganese	0.85	0.010	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G
Molybdenum	500	10	ug/L	500	ND	101	75-125	3	20		RC-G
Nickel	0.49	0.010	mg/L	0.500	0.014	95	75-125	1	20		RC-G
Zinc	0.48	0.010	mg/L	0.500	0.011	95	75-125	2	20		RC-G
Matrix Spike Dup (B2H1705-MSD2)	Source: 22I	H0795-02									
Barium	0.58	0.010	mg/L	0.500	0.065	102	75-125	0.6	20		RC-G
Boron	3100	15	ug/L	500	2500	121	75-125	2	20		RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125	0.3	20		RC-G
Copper	0.53	0.005	mg/L	0.500	ND	106	75-125	0.4	20		RC-G
Iron	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Lithium	590	10	ug/L	500	11	116	75-125	0.03	20		RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	1	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.09	20		RC-G
Potassium	18	0.10	mg/L	5.00	11	131	75-125	2	20	S1	RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125	0.2	20		RC-G
Batch B2H1706 - EPA 3005A											
Blank (B2H1706-BLK1)											
	ND	15	ug/L								RC-G
Boron	ND ND	15 0.050	ug/L mg/L								RC-G RC-G
Blank (B2H1706-BLK1)  Boron  Calcium  Iron			=1								



## Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1706 - EPA 3005A											
Blank (B2H1706-BLK1)											
Manganese	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
LCS (B2H1706-BS1)											
Boron	500	15	ug/L	500		99	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Iron	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Manganese	0.50	0.010	mg/L	0.500		100	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		103	80-120				RC-G
Batch B2H1714 - EPA 3005A											
Batch B2H1714 - EPA 3005A											
Blank (B2H1714-BLK1)											
Blank (B2H1714-BLK1)	ND	15	ug/L								RC-G
Blank (B2H1714-BLK1) Boron Calcium	ND	0.050	mg/L								RC-G
Blank (B2H1714-BLK1) Boron Calcium Iron	ND ND	0.050 0.050	mg/L								RC-G RC-G
Blank (B2H1714-BLK1)  Boron  Calcium  Iron  Magnesium	ND ND ND	0.050 0.050 0.050	mg/L mg/L mg/L								RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium fron Magnesium Manganese	ND ND ND	0.050 0.050 0.050 0.010	mg/L mg/L mg/L mg/L								RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium Iron Magnesium Manganese Potassium	ND ND ND ND	0.050 0.050 0.050 0.010 0.10	mg/L mg/L mg/L mg/L mg/L								RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium fron Magnesium Manganese	ND ND ND	0.050 0.050 0.050 0.010	mg/L mg/L mg/L mg/L								RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium Iron Magnesium Manganese Potassium	ND ND ND ND	0.050 0.050 0.050 0.010 0.10	mg/L mg/L mg/L mg/L mg/L								RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium  fron Magnesium Manganese Potassium Sodium	ND ND ND ND	0.050 0.050 0.050 0.010 0.10	mg/L mg/L mg/L mg/L mg/L	500		101	80-120				RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1)  Boron  Calcium  Iron  Magnesium  Manganese  Potassium  Sodium  LCS (B2H1714-BS1)	ND ND ND ND ND	0.050 0.050 0.050 0.010 0.10 0.10	mg/L mg/L mg/L mg/L mg/L mg/L	500 0.500		101 104	80-120 80-120				RC-G RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium Iron Magnesium Manganese Potassium Sodium LCS (B2H1714-BS1) Boron	ND ND ND ND ND ND ND	0.050 0.050 0.050 0.010 0.10 0.10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L								RC-G RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium fron Magnesium Manganese Potassium Sodium LCS (B2H1714-BS1) Boron Calcium	ND ND ND ND ND ND O ND ND ND ND ND	0.050 0.050 0.050 0.010 0.10 0.10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.500		104	80-120				RC-G RC-G RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1) Boron Calcium Iron Magnesium Manganese Potassium Sodium LCS (B2H1714-BS1) Boron Calcium Iron	ND ND ND ND ND ND 0.52	0.050 0.050 0.050 0.010 0.10 0.10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.500 0.500		104 103	80-120 80-120				RC-G RC-G RC-G RC-G RC-G RC-G
Blank (B2H1714-BLK1)  Boron  Calcium  Iron  Magnesium  Manganese  Potassium  Sodium  LCS (B2H1714-BS1)  Boron  Calcium  Iron  Magnesium	ND ND ND ND ND ND 0.52 0.52 0.51	0.050 0.050 0.050 0.010 0.10 0.10 15 0.050 0.050	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.500 0.500 0.500		104 103 103	80-120 80-120 80-120				RC-G RC-G RC-G RC-G RC-G RC-G RC-G RC-G



# Total Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1781 - EPA 7470A											
Blank (B2H1781-BLK1)											
Mercury	ND	0.20	ug/L								RC-G
LCS (B2H1781-BS1)											
Mercury	5.0	0.20	ug/L	5.00		101	80-120				RC-G
Matrix Spike (B2H1781-MS1)	Source: 22I	10795-13									
Mercury	4.8	0.20	ug/L	5.00	ND	95	75-125				RC-G
Matrix Spike Dup (B2H1781-MSD1)	Source: 22I	10795-13									
Mercury	4.7	0.20	ug/L	5.00	ND	94	75-125	1	20		RC-G
Batch B2H2214 - EPA 3005A											
Blank (B2H2214-BLK1)											
Lithium	ND	10	ug/L								RC-G
LCS (B2H2214-BS1)											
Lithium	497	10	ug/L	500		99	80-120				RC-G
Batch B2H2227 - EPA 3005A	Mod										
Blank (B2H2227-BLK1)											
Silver	ND	0.010	mg/L								RC-G
LCS (B2H2227-BS1)											
Silver	0.062	0.010	mg/L	0.0600		103	80-120				RC-G
Matrix Spike (B2H2227-MS1)	Source: 22I	H0795-09									
Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125				RC-G
Matrix Spike Dup (B2H2227-MSD1)	Source: 22I	10795-09									
Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125	0.1	20		RC-G



## Dissolved Metals **Quality Control Summary**

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1696 - EPA 3005A	Mod										
Blank (B2H1696-BLK1)											
Arsenic, Dissolved	ND	0.005	mg/L								RC-G
LCS (B2H1696-BS1)											
Arsenic, Dissolved	0.211	0.005	mg/L	0.200		106	80-120				RC-G
Matrix Spike (B2H1696-MS1)	Source: 22I	H0795-06									
Arsenic, Dissolved	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
Matrix Spike (B2H1696-MS2)	Source: 22I	H0795-07									
Arsenic, Dissolved	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
Matrix Spike Dup (B2H1696-MSD1)	Source: 22H	H0795-06									
Arsenic, Dissolved	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
Matrix Spike Dup (B2H1696-MSD2)	Source: 22I	10795-07									
Arsenic, Dissolved	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
Batch B2H1705 - EPA 3005A											
Blank (B2H1705-BLK1)											
Iron, Dissolved	ND	0.050	mg/L								RC-G
Manganese, Dissolved	ND	0.020	mg/L								RC-G
LCS (B2H1705-BS1)											
fron, Dissolved	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Manganese, Dissolved	0.51	0.020	mg/L	0.500		102	80-120				RC-G
Matrix Spike (B2H1705-MS1)	Source: 22H	H0795-01									
Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
Manganese, Dissolved	0.86	0.020	mg/L	0.500	0.35	102	75-125				RC-G
Matrix Spike (B2H1705-MS2)	Source: 22I	10795-02									
Iron, Dissolved	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	103	75-125				RC-G



## Dissolved Metals **Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
Matrix Spike Dup (B2H1705-MSD1)	Source: 22I	10795-01									
Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Manganese, Dissolved	0.85	0.020	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G
Matrix Spike Dup (B2H1705-MSD2) Source: 22H0795-02											
Iron, Dissolved	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G



### Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst	
EPA 3005A ICP Digestion					
EPA 3005A	B2H1705	22H0795-01	08/15/2022 13:44	EDM	
EPA 3005A	B2H2214	22H0795-01RE1	08/28/2022 11:00	EDM	
EPA 3005A	B2H1705	22H0795-02	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-03	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-04	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-05	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-06	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-07	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-08	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-09	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-10	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-11	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-12	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-13	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-14	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-15	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-16	08/15/2022 13:44	EDM	
EPA 3005A	B2H1706	22H0795-17	08/15/2022 13:49	EDM	
EPA 3005A	B2H1706	22H0795-18	08/15/2022 13:49	EDM	
EPA 3005A	B2H1706	22H0795-19	08/15/2022 13:49	EDM	
EPA 3005A	B2H1706	22H0795-20	08/15/2022 13:49	EDM	
EPA 3005A	B2H1714	22H0795-21	08/15/2022 15:02	EDM	
EPA 3005A	B2H1714	22H0795-22	08/15/2022 15:02	EDM	



Santee Cooper 1 Riverwood Dr. Moncks Corner, SC 29461			Project: Work Order: Reported:	Ground Water 22H0795 09/21/22 13:34	
EPA 3005A ICPMS Digestion					
EPA 3005A Mod	B2H1696	22H0795-01	08/15/2022 1		
EPA 3005A Mod	B2H1696	22H0795-02	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H1696	22H0795-03	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H1696	22H0795-04	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H1696	22H0795-05	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H1696	22H0795-06	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H2227	22H0795-06	08/25/2022 1	6:00 EDM	
EPA 3005A Mod	B2H1696	22H0795-07	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H2227	22H0795-07	08/25/2022 1	6:00 EDM	
EPA 3005A Mod	B2H1696	22H0795-08	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H2227	22H0795-08	08/25/2022 1	6:00 EDM	
EPA 3005A Mod	B2H1696	22H0795-09	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H2227	22H0795-09	08/25/2022 1	6:00 EDM	
EPA 3005A Mod	B2H1696	22H0795-10	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H2227	22H0795-10	08/25/2022 1	6:00 EDM	
EPA 3005A Mod	B2H1696	22H0795-11	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H1696	22H0795-12	08/15/2022 1	1:21 EDM	
EPA 3005A Mod	B2H1696	22H0795-13	08/15/2022 1	1:21 EDM	
EPA 7470A Mercury Digestion					
EPA 7470A	B2H1781	22H0795-06	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-07	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-08	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-09	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-10	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-11	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-12	08/16/2022 1	7:30 EDM	
EPA 7470A	B2H1781	22H0795-13	08/16/2022 1	7:30 EDM	



#### **Data Qualifiers and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported

RPD Relative Percent Difference

L The analyte was not within control limits in the LCS.

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.

X Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

Z The Dissolved and Total results are not significantly different and given the nature of the analyses, should be considered equal.

Za The matrix spike and/or matrix spike duplicate was not within control limits - failed high. There are no detections in the sample.

#### Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105 RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

### 22140795

### Chain of Custody



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

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA @santeecooper.com 125915 / JM02.09.601.1/ 36500 Yes No Analysis Group Labworks ID # Sample Location/ Comments (Internal use Collection Date Collection Time Matrix(see below Description Sample Collecto Method # Glas only) Total # of contain 5 Grab (G) or Composite (C) Preservative (below) SSOLVED Reporting limit Bottle type: {c G/Plastic-P) Ma Misc. sample info Any other notes AS, I ā 200.3 1/12/22 01 AF 39101 PEN CREEK! 0945 2 G 2 SW 1 AS 4020 RL& 5 PPB l 52 02 LOW TURK 1024 Mo 1 6010 RL < 10 PPB 03 03 MID TURK 1031 -04 04 UP TURK 1045 35 05 PEN CREEK 2 1130 Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C): 23.9 Initial: WAG Barroun 35594 8/11/22 Florex 1500 Correct pH: Yes No Relinquished by: **Employee#** Date Time Received by: Employee # Date Time Preservative Lot#: megan Feder 8/12/22 0970 8/11/22 0920 Received by: Relinquished by: Employee# Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. Gypsum Coal Flyash □ Ag □ Cu O Sb FOC O BTEX Wallboard Ultimate □ Al □ Fe □ Se Ammonia ☐ Napthalene Gypsum(all ☐ % Moisture LOI ☐ As OK □ Sn O THM/HAA below) ☐ Ash % Carbon □ VOC AIM OB D Li □ Sr □ Sulfur □ Oil & Grease Mineral TOC O BTUs □ Ba C E. Coli Analysis □ Mg □ Ti Total metals ☐ Volatile Matter ☐ Total Coliform Soluble Metals □ Be □ Mn O TI □pH O CHN D Purity (CaSO4) % Moisture ☐ Dissolved As □ Ca % Moisture Other Tests: □Мо OV ☐ Dissolved Fe D XRF Scan Sulfites **NPDES** □ Cd □ Na □ Zn □ Rad 226 O HOL □ pH ☐ Rad 228 Oil & Grease Chiorides Li Fineness □ Co □ Ni □ Hg □ PCB Aa D Particulate Matter Particle Size □ Cr □ Pb 198 □ CrVI Tracking: 8153 6791 4817

### 22H0795

## **Chain of Custody**

santee cooper

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

	ILLIA	Report Recip	cooper.com		Results N		1 7,000	125				Unit #: 08. ⊊ø!.	34 3650		Yes	No		is Group	
Labworks ID # (Internal use only)  Sample Location/ Description		Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Me     Re     Mi     An	comethod # porting lim isc. sample by other not	info		TOTAL METALS					
AF40	205	STI-2		8/3/22	1125	DEN	ı	P	G	GW	2	6020 A9	-	010	7470	×			
١					-	1	,				1	AS		id i	Hg				
-	07 STI- 4A		++-	1229				+			Cr		Fe		1				
	OR	ST1-5			1328							Se		vi Pb					
	06 STI-3			1422															
				1422				+		-					-				
			7	1524	_	1	1	1	T	1	* PLEA	SE USE	SHEET	1					
												WHERE	APPHO	ABLE.					
																	-		
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									$\dashv$		-						-	_	
Relinqu	ished by:	Employee#	Date	Time	Receiv	ed by:	En	nployee #		Date		Time	Sample	Receiving (	Internal L				
89mo	un	35574	8/11/22	1500	Fede				T	Date			TEMP	(°C):		Initial	itial:		
	ished by:	Employee#	Date	Time		Received by:		nployee #		Date	te	Time	Correc	t pH: Ye	s No				
Fed	RN		8/12/22	0920	10	-	æ	ea		8/14/22		0920	Preserv	vative Lot#					
Relinqu	ished by:	Employee#	Date	Time		ed by	En	nployee #		Date		Time							
	ourness (III-iiii - o-				THE RESERVE OF THE PARTY OF THE								Date/T	ime/Init for	preserva	tive:			
	□ MET	'ALS (all)			3.416													2.0	
ZAg	□ Cu	□ Sb	I TO	rients	MIS	<u>sc.</u>		Waliboa	osum	1	l at	<u>Coal</u>		Flyas	U-3.0 L		Oil		
□ Al	₽Fe	ℤ Se	n De	X	□ Napthale			Gyps	um(al	1	9 000000	□ % Mois	ture	☐ Ammon ☐ LOf	18				
As	ΩK	□ Sn		TPO4	□ THM/H/	IA		below AIN			100000000000000000000000000000000000000	☐ Ash	1.00	□ % Carbo					
O B	□ Li	□ Sr	1 7 5	13-IN	🗆 Oil & Gr	ease		0.100			No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	Sulfur BTUs		Mineral     Anai					
Ba	□ Mg	O Ti			☐ E. Coli ☐ Total Col	liform		□ Tota □ Solu	l metal bic Me		S III	□ Volatile	Matter	. Sieve	300				
□ Be	□ Mn	5 TI	T NO	100	□pH			D Putil	y (CaS	(04)		CHN		☐ % Moist	are	Liso	t Oil		
□ Ca	□Мо	O V	LBr	CONTRACTOR OF THE PARTY OF THE	☐ Dissolved			U Sulfi			11	her Tests: RF Scan		None					
	□ Na	□ Zn	so	41	☐ Rad 226 ☐ Rad 228			□pH			DH	lGI		NPDE	100000000000000000000000000000000000000				
Cd							\$5500 ESS	Chlo	milan		TE	ineness	RIVERSE WATER	Oil & Gre	25C				
Cd Co	Z'Ni	<b>⊭</b> Hg			□ PCB			Parti				articulate M	atter	OAs					

## **Chain of Custody**



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

LCWI	C-04 C 000 C	/Report Recipi	cooper.com		//		7.	1250		oject/			J_36500	erun request	No	alysis Group
Labworks ID #   Sample Location/   Description		Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Me     Re     Mi     An	Comments ethod # porting limit sc. sample info sy other notes		TOTA-L METALS			
AF 416	30	WLF- A2-1	(	8/8/22	1054	DEW	1	Р	G	Gw	2	6010	6020	3534	×	
				1					-		1	B9 N		<b>F</b>		
	31	WLF-A2-1	DUP		1059							BK				
1	32	WLF-A2-2			1215	1						Cd N				
					1							Cu	Se			
				-								Fe	T1			
												Pb				
												Mg				
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		-	-								ASE SEE S	HEEL				
											FOR	MLS				
														- Hudallina		
													S	hilam Harris		
-	ished by:	Employee#	Date	Time				Employee # Date				Time	TEMP (°C):	iving (Internal (	Ise Only) Initial:	,
29mo		35594	8/11/22	1500	Fa	lex							Correct pH:	Yes No	1 1	
Relinqu	ished by:	Employee#	Date	Time	Receiv	ed by:	Er	Employee # Date				Time				
FG	tex	•	8/12/22	0970	Ha	- 20	3	7 8/12/2			2 (	3920	Preservative	: Lot#:		
Relinqu	ished by:	Employee#	Date	Time	Receiv	ed by:	Er	nployee		Date		Time				
			10										Date/Time/I	nit for preserva	itive:	
		TALS (all)	Nut	rients	MIS	sc.		Gv	osun	,		Coa		lyash	100	Oil
O Ag	□ Cu □ Fe		10		O BTEX			Wallbo			01	Ultimate		mmonia		Olf Qual
□ Al ✓ As	□ K	☐ Sn	DC		☐ Napthale			Gyps	um(al	1		□ % Mois	sture L	6l		
∌'B	DLi	□ Sr		TPO4	□VOC			EI All	4			☐ Ash ☐ Sulfur		Carbon ineral		
Ba	□ Mg		LF		□ Oil & Gi □ E. Coli	ease		D Tot	d metal			□ BTUs		Analysis		
Be	O Mn	Control of the second	E CI	2	☐ Total Co ☐ pH	liform		O Soli	ible Me ty (Ca5	tala	The state of the s	☐ Volatile		eve Moisture	Used	Oil
Ca	Ø Mo		Br		☐ Dissolve			Stat	foisture		Ot	her Tests:			# [sel]	
<b>Z</b> Cd	□ Na	Ø Zn	NO SO	20.00	☐ Dissolve ☐ Rad 226			O Sulf	ites		UH	IRF Scan		IPDES		
Co	∕ Ni	Hg		Add	□ Rad 228 □ PCB			O Chi			OF	ineness articulate M		l & Grease		
ℤ Cr	Pb	□ CrVI			2.00	PCB			☐ Particle Size			a. uvulate N	018		cali	

#### 8 / 25 / 22 Send report to Icwillia @santeecooper.com & sibrown@santeecooper.com

## **Chain of Custody**



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

	LCWILL		i/ Kep	@santeed	ooper.com		esults Ne			1250				7.GØ1-1	J_ 365	Kerun request	No	ny nagge	<i>a</i> C
	Labworks (Internal u only)		CHANGE TO SERVICE STREET	nple Locatio cription	on/	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Mc     Rep     Mis     Any	Comments the description of the control of the cont	info	B, Cg, Fe, K, Na	Analysis Gro	up.
Ī	AF 416	AF41640 WLF-A2-6			8/8/22	1325	DEW	2	P	G	GW	2		Fe, It, N	1		Ī		
	- 1	35	Leve	- A1-9		1	war.	1	1		1	1	1	Mn - 60	220		1		
-		25	WL	=- A1-2			1425		$\vdash$					77[11 00			+	#	t
-		36	WL	F-A1-3		1	1527				-						+		+
,	AF 416	33	WI	BW-AI-	1	8/9/22	1028				3			* PLEAS	SE MEE	ET YMMS			1
		37 WLF-AI-4				1359							ON SH	EET.				1	
	38 WLF-AI-4 DUP			1404															
				1138															
		34	100	- 41-1			1251												1
				F-A1-1													H		1
	1	41	WA	P-7		1	1455	-	1			-1-	7				-	-	+
							_												
	Relinquis	shed by		Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date		Time		Receiving (Internal (°C):	Use O Initia		
	Sogranu	m		35594	8/10/22	1500		exp						Corre		ct pH: Yes No	ić.		
	Relinquis	shed by		Employee#	Date	Time	Receiv	ed by:	E	Employee #		Date		Time		vative Lot#:			
	Flo	ler	1		8/12/22		The		B	8/12/2				0920	Freser	valive Lot#:			
	Relinquis	shed by		Employee#	Date	Time	Receiv	ed My:	E	mployee	*	Date		Time	Date/I	ime/Init for preserv	ative:		
I		ПМ	FTA	LS (all)															
l	□ Ag	□ C	u	□ Sb	Nut	rients	MI: □ BTEX	<u>sc.</u>		Wallbo	psun	1		Coal Ultimate		Flyash  Ammonia		Oil ms Oil Qui	
l	□Al	F		□ Se	DC	A STATE OF THE PARTY OF THE PAR	☐ Napthale			Gyp	sum(a.	u .		☐ % Mois	sture	□ LOI			
l	□ As	DK		□ Sn		TPO4	□ THM/H. □ VOC	AA		belo L Al				O Ash		© % Carbon			
ļ	ØB	OL		□ Sr	I F	13-17	□ Oil & G	rease		10	ic.			☐ Sulfur ☐ BTUs		☐ Mineral Analysis			
ļ	□ Ba	MN	40	□ Ti	TCI		☐ E. Coli ☐ Total Co	oliform			ol meta luble M			☐ Volatile	Matter	Sieve			
	□ Be	IN	-	O T1	Br Br	The second second	□ pH □ Dissolve	d As		E Pur	rity (Cal	504)	0	☐ CHN ther Tests:		□ % Moisture		sed Oil Elashpoint	
	Ca	UN		O V	NO.		□ Dissolve	d Fe		in Sul			0	XRF Scan		NPDES			
	□ Cd	ZN	la	□ Zn	1.80		☐ Rad 226 ☐ Rad 228			E pH	londes			HGI Fineness		□ Gil & Grease			
ĺ	□ Co	DN	_	□Hg			□ PCB		100	□ Par	ticle Siz	c	- 1000	Particulate M	fatter	G As		TX OVER	
l	□ Cr	□ P	ъ	□ CrVI		5.00				Sulfur				it milit				and the sale	

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L		
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L		10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L		0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	
Iron	ug/L	300	
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L		
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L		
Potassium	mg/L		-
Selenium	ug/L	50	5
Sodium	mg/L		
Thallium	ug/L	2	1
Zinc	ug/L	5000	



## Sample Receipt Verification

Client: Sant	ee Cooper	Date eived:	8/12	2/22			Work Order:	22HI1745					
Carrier Name:	Client	Other:		-	Trac	cking Nu	mber:				=		
Receipt Crite	eria			Yes	No	NA		9	Com	ments			
Shipping conta	iner / cooler intact?			<b>✓</b>			Damaged	Leakin	g	Other:			
Custody seals i	ntact?					>							
COC included	with samples?			<b>/</b>									
COC signed w	hen relinquished and recei	ved?		<b>/</b>									
Sample bottles	intact?			<b>/</b>			Damaged	Leakin	g	Other:			
Sample ID on	COC agree with label on b	oottle(s)?		<b>'</b>									
Date / time on	COC agree with label on l	pottle(s)?		<b>/</b>									
Number of bot	ived?	<b>/</b>											
Samples receiv	ed within holding time?			<b>/</b>									
Sample volume	e sufficient for analysis?			<b>/</b>									
VOA vials free	of headspace (<6mm but	oble)?				>							
Samples coole	Temp at receipt record Temp measured with I	ed on COC R thermometer - SN: 9705	0067	<b>\</b>			Ice 🗸	Cold Pack	s	Dry Ice	None		
	ing pH preservation at profor metals analysis may be prese		b.	<b>/</b>									
Samples dechle the time of sam	orinated for parameters reapple collection?	quiring chlorine remo	val at			>							
		If in-house pres	servation	used	– rec	ord I	Lot#						
HCL		_	H <sub>3</sub> P	O <sub>4</sub>									
$H_2SO_4$			Na(	OH									
$HNO_3$			Oth	ner									
Comments:													
117	C	1 1 1 10	NI=									$\neg$	
	nformance issues noted ance issue other than noted		No										
				_								_	

Completed by: KAB





## 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

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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



 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 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
Zine	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				

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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 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	
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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 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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 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 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
Zinc	0.52	0.010	mg/L	0.500		105	80-120				RC-G
Matrix Spike (B2H2214-MS3)	Source: 22I	H1276-05RE	E <b>1</b>								
Lithium	654	10	ug/L	500	28	125	75-125			S1	RC-G
Matrix Spike (B2H2214-MS4)	Source: 22I	H1276-21RF	E <b>1</b>								
Potassium	11	0.10	mg/L	5.00	5.4	110	75-125				RC-G
Matrix Spike (B2H2214-MS5)	Source: 22I	H1276-22RF	E <b>1</b>								
Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125			S1	RC-G



 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 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: 221	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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 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 Ba	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
Гhallium	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			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

-		LLIA	@sa	4400.	cooper.com	——	//.	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			WAP-S			7/11/10	1434					+						+	
	1	60		-		7/14/22						+					+	+	_
			WAP-I			7/18/22	1106					11					+	+	
-		58	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 18 18 18 18 18 18 18 18 18 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 STATE		
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 THE PARTY OF THE PARTY	51 1 1 1	articulate M	auer		The second second		

Send report to Icwillia @santeecooper.com & sibrown@santeecooper.com

# **Chain of Custody**



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

LCWIL	LIA	@sontee	cooper.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	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			0	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 %Mosaun
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

# Send report to Icwillia@santeecooper.com & sibrown@santeecooper.com

# **Chain of Custody**



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

	ILLIA:	I/Report Recip@santee	cooper.con		Results N	eeded b	y:	25				Unit #: 7. 6 01 - 1	] 36500	Rerun reque	No	
Labwor (Interna 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	• 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		100/6	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	1 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		ac and a		
		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 s	☐ % 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 Committee	□ 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			THE RESERVE OF THE PARTY OF THE	☐ 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	er Email	/Re	port Recip	ient:	Date I	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										
		41	W	BW-AI-	- ]	7/12/22	1044										1	
		97	W	LF-A-I	- 5		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	Amazonia LOI		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	I Br	531	☐ Dissolve			U % N	doistur			her Tests:		NIDOCC		badgenn Ruste is v
1	Z Cd	/ Na		≥ Zn	CSO	STREET, SQUARE, 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			TANK!			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	Feelt								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

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 N	Mercury, Liquid "A	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

Page 3 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 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

Page 4 of 30 SDG: 586276

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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

Page 5 of 30 SDG: 586276

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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 N	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Time	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

Page 6 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 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	Δna	lyst Date	Time	Ratch	Method
7		Result		IXL	Onto	11	171	1 M10	ilyst Date	1 11110	Daten	Wichiod
Mercury Analysis-C	VAA											
7470 Cold Vapor Me	ercury, Liquid "A	s Received"										
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1017	2290693	1
The following Prep I	Methods were pe	rformed:										
Method	Description			Analyst	Date	, r	Гітє	• ]	Prep Batch	ß.		
SW846 7470A Prep	EPA 7470A M	fercury Prep Liquid		RM4	07/18/22		1350	:	2290688			
The following Angle	rtical Mathode w	ara 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

Page 7 of 30 SDG: 586276

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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

Page 8 of 30 SDG: 586276

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**Certificate of Analysis** 

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

Page 9 of 30 SDG: 586276

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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

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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-CV	AΑ							

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

Page 10 of 30 SDG: 586276

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

Page 11 of 30 SDG: 586276

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 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	Ķ.	
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

Page 12 of 30 SDG: 586276

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 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-	od
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

Page 13 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 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 229069:	3 1
The following Prep 1	Methods were pe	rformed:									
Method	Description	1		Analyst	Date		Time	e I	Prep Batch	1.5	
SW846 7470A Prep	EPA 7470A N	1 Aercury Prep Liquid		RM4	07/18/22		1350	2	2290688		
The following Analy	ztical 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

Page 14 of 30 SDG: 586276

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	Batch	Method
AA											
cury, 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	rformed:										
Description	1		Analyst	Date		Tim	e I	Prep Batch	ji.		
EPA 7470A N	Mercury Prep Liquid		RM4	07/18/22		1350	2	2290688			
	AA cury, Liquid "A U ethods were pe Description	AA cury, Liquid "As Received"	AA cury, Liquid "As Received" U ND 0.0670 ethods were performed: Description	AA cury, Liquid "As Received" U ND 0.0670 0.200 ethods were performed: Description Analyst	AA cury, Liquid "As Received" U ND 0.0670 0.200 ug/L ethods were performed: Description Analyst Date	AA cury, Liquid "As Received" U ND 0.0670 0.200 ug/L 1.00 ethods were performed: Description Analyst Date	AA cury, Liquid "As Received" U ND 0.0670 0.200 ug/L 1.00 1 ethods were performed: Description Analyst Date Time	AA cury, Liquid "As Received" U ND 0.0670 0.200 ug/L 1.00 1 JP2 ethods were performed: Description Analyst Date Time I	AA cury, Liquid "As Received" U ND 0.0670 0.200 ug/L 1.00 1 JP2 07/19/22 ethods were performed: Description Analyst Date Time Prep Batch	AA cury, 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 cury, 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

Page 15 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 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

Page 16 of 30 SDG: 586276

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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 Mariana	A00000011	Validation 1800	20110001000				NAME OF THE OWNER.	AND THE PART OF TH
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

Page 17 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 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

Page 18 of 30 SDG: 586276

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

Page 19 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: 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

Page 21 of 30 SDG: 586276

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

**QC** Summary

Report Date: July 25, 2022

Page 1 of 2

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 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

Page 22 of 30 SDG: 586276

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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.  $^{\text{T}}$  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 <a href="mailto:lcwillia@santeecooper.com">lcwillia@santeecooper.com</a> <a href="mailto:sibrown@santeecooper.com">sibrown@santeecooper.com</a>

# **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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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	□ 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			
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# **Chain of Custody**

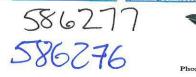
586277

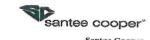


Santee Cooper One Riverwood Drive Moneks Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

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			
							20000		-70									
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Relinqu	ished by:	Employee#	Date	Time	Receive	ed by:	En							Receiving (Internal				
\$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						-
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□ 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	
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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- A-I -	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	
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AF3819	15	WL	=- AI - 4				1535															
AF3819	16	WL	F-A-4	DUP			1540															
AF3817	8	W	HP-17		7/12	122	1235		Į,													
AF3817	9	WA	HP-17 DU	IP	1		1240	1	1	1	1			1					1	I	Ī	
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												E/98.4/25				Date/T	ime/Init fo	r preserva	tive:			
	□ ME	TA	LS (all)	Nut	rient		BAIC	~		6									-			
□ Ag	□ Cu		□ Sb	ТТО			MIS BTEX	<u>C.</u>			V See	um			Coal		Flyas	<u>sh</u>		Oi		
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□ As	□K		□ Sn		TPO4	10 15 PM	□ THM/HA	A		belo		.(			☐ % Moist ☐ Ash	ure	□ LOI		C	Mois	ure	
□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	You	□ 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	-6		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 2-4	
, 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):	
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 (111)		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 MANNULZZUZ I 30
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	25.	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 EF	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

Page 7 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

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-22	28 Calculatio	n "See Pa	rent 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 Proportion	onal Counting									3
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-2	28 Calculatio	n "See Pa	arent 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, Liqu	uid "As Recei	ved"								
Radium-226		2.10	+/-0.439	0.249	1.00	pCi/L		LXP1 08/09/2	2 0901 2306991	3
The following Analytic	al Methods w	ere perfo	ormed:							

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	DF Analyst 1	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	228 Calculatio	n "See Pa	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 "A	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	28 Calculation	n "See Pa	arent Products"							
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

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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 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	28 Calculatio	n "See Pa	arent Products"							
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

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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: 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	DF Analyst	Date	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	28 Calculatio	n "See Pa	rent Products"								
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

Page 13 of 30 SDG: 589538

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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-2	28 Calculatio	n "See Pa	arent 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	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

Page 14 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: 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	DF Analyst	t Date	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-	-228 Calculatio	n "See Pa	arent 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

Page 15 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

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-2	28 Calculatio	n "See Pa	arent 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

Page 16 of 30 SDG: 589538

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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 Proportion	onal 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-2	228 Calculatio	n "See Pa	arent 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	eal Methods w	ere perfo	ormed:							
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

Page 17 of 30 SDG: 589538

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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	al Methods w	ere perfo	ormed:								

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

Page 18 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: 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 Rec	overy Test	Result	Nominal	Recovery%	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

Page 19 of 30 SDG: 589538

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

Project:

Client ID:

**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: 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	portional 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+Radium	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	ved"								
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		Analyst Comments							

Story and "Construction of the Construction of	AND CONTROL OF THE CO			37300 (55)	
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

Page 20 of 30 SDG: 589538

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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 Propo	ortional Counting									
GFPC, Ra228, Liqui	id "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	m-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, 1	Liquid "As Receive	ed"								
Radium-226		0.691	+/-0.330	0.407	1.00	pCi/L	LXP1	08/09/22	1007 2306991	3
The following Anal	lytical Methods wei	re perforn	ned:							
Method	Description					Analy	st Comment	s		,
1	EPA 904.0/SW84	16 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

Page 21 of 30 SDG: 589538

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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.

Page 22 of 30 SDG: 589538

#### **GEL LABORATORIES LLC**

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

# **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.

Page 23 of 30 SDG: 589538

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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

Page 24 of 30 SDG: 589538

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

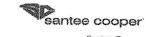


Santee Coope One Riverwood Drive Moneks Corner, SC 2946) Phone: (843)761-8000 Ext. 5148 Fax: (843)761-417

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												
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Relinquishe	ed by:	Employee#	Date	Time	Receive	1	1100	ployee t		Date	-	Time	Correct pH: Yes No				
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	□ 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		
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# **Chain of Custody**

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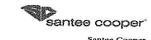


Santee Cooper One Riverwood Drive Moneks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Labworks IE (Internal use only)	D#	@santee	cooper.com		<i>J)</i>			125	715	/ JM	102.0	8 - 21 - 0	365ac (Va)	N1 -		
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(Internal use			on/											£	<u> Inalysi</u>	s Group
i				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     Repoi     Misc.     Any o	Comments  d #  ting limit  sample info ther notes	844 224/228	TOTAL RAD CALC.	£
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	□ Mn	IT []	O NO	2	□pH			🗇 Puri	ty (CaS	O4)		I CHN	□ % Moisture		l Oil	ades ( \$40°
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□Co □	∃Ni	□Hg			☐ Rad 228 ☐ PCB			□ Chle			□Fi	neness	El Oil & Grease U As	Hg	)	
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# **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
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nt: 505P	10		COVARIA ORDER 586275/586201/	
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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: Ciient contacted and province	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	一個		
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 Cantage		-	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?				
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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).			
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			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	SC002 SC00012
New York NELAP	11501
North Carolina	19 19 19 19 19 19 19 19 19 19 19 19 19 1
	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



# **Environment Testing America**

# ANALYTICAL REPORT

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

Laboratory Job ID: 680-221296-1

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
	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

8

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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

680-221296-33

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
880-221296-19	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
680-221296-30	AF38197	Water	07/12/22 13:58	09/16/22 10:30
680-221296-31	AF38198	Water	07/07/22 12:37	09/16/22 10:30
680-221296-32	AF38199	Water	07/07/22 11:37	09/16/22 10:30

Water

07/14/22 11:50 09/16/22 10:30

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Job ID: 680-221296-1

100

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1.7

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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

Life

# **Definitions/Glossary**

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

#### Qualifiers

D 6	Court of Street	
13/10	eta	-
IVE	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

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)
DI 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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Page 6 of 75

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LIR.

13

1.14

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38168

Job ID: 680-221296-1

Lab Sample ID: 680-221296-1

Lab Sample ID: 680-221296-2

Lab Sample ID: 680-221296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	126000		500		ug/L		-	6010D	Total
									Recoverable
Iron	2690		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	18100		500		ug/L	1		6010D	Total
				2010112012					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

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Meth	nod	Prep Type
Calcium	114000	<del> </del>	500		ug/L	1	6010	)D	Total
									Recoverable
Iron	2430		100		ug/L	1	6010	)D	Total
									Recoverable
Magnesium	16400		500		ug/L	1	6010	)D	Total
									Recoverable
Potassium	5210		1000		ug/L	1	6010	)D	Total
									Recoverable
Sodium	27600		2000		ug/L	1	6010	)D	Total
									Recoverable
Aluminum	2860		100		ug/L	1	6020	)B	Total
									Recoverable
Barium	22.5		5.00		ug/L	1	6020	)B	Total
									Recoverable
Cobalt	1.23		0.500		ug/L	1	6020	)B	Total
									Recoverable
Zinc	26.7		20.0		ug/L	1	6020	)B	Total
					integr:				Recoverable

#### Client Sample ID: AF38170

- 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.

Page 7 of 75

RL

0.500

**MDL** Unit

ug/L

Result Qualifier

0.525

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38170 (Continued)

Job ID: 680-221296-1

Lab Sample ID: 680-221296-3

Dil Fac D Method Prep Type 6020B Total

Lab Sample ID: 680-221296-4

Lab Sample ID: 680-221296-5

Lab Sample ID: 680-221296-6

Lab Sample ID: 680-221296-7

Recoverable

Client Sample ID: AF38171

Analyte

Cobalt

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	1		6010D	Total
									Recoverable
Potassium	15700		1000		ug/L	1		6010D	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		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF38172

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1230000	50	00		ug/L	10	9-11	6010D	Total
									Recoverable
Magnesium	27700	5	00		ug/L	1		6010D	Total
									Recoverable
Potassium	14400	10	00		ug/L	1		6010D	Total
									Recoverable
Sodium	118000	20	00		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
									Recoverable

Client Sample ID: AF38173

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	759000		5000	75	ug/L	10	<del></del>	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

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	681000		500		ug/L		-	6010D	Total
Iron	13200		100		ug/L	1		6010D	Recoverable Total Recoverable

This Detection Summary does not include radiochemical test results.

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Page 8 of 75

RL

500

1000

2000

3.00

5.00

**MDL** Unit

ug/L

ug/L

ug/L

ug/L

ug/L

Result Qualifier

29000

6470

96600

6.29

159

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

Recoverable

Total Recoverable

Dil Fac D Method Prep Type 6010D Total Recoverable 6010D 1 Total Recoverable 6010D 1 Total Recoverable 6020B Total

6020B

Client Sample ID: AF38175

Analyte

Magnesium

Potassium

Sodium

Arsenic

Barium

Lab Sample ID: 680-221296-8

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	152000	500		ug/L			6010D	Total
								Recoverable
Iron	6360	100		ug/L	1		6010D	Total
200								Recoverable
Magnesium	7860	500		ug/L	1		6010D	Total
								Recoverable
Potassium	4770	1000		ug/L	1		6010D	Total
2 32	25100570057	200320		2			N210 8/0/22	Recoverable
Sodium	68800	2000		ug/L	1		6010D	Total
	0	5.00		***************************************			2222	Recoverable
Barium	77.6	5.00		ug/L	1		6020B	Total
L <sub>a</sub>								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		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

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

#### 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	1	_	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
<u>L</u> .									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		1000		ug/L	1		6010D	Total
									Recoverable
Sodium	60900		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	l 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

This Detection Summary does not include radiochemical test results.

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 Fa	ic D	Method	Prep Type
Molybdenum	179	10.0	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	1	_	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
_gqbg=bclssclsoqba=are=bclsoqb				alegenteeza				Recoverable
Aluminum	2050	100		ug/L	1		6020B	Total
	2000-20	P. C. S. C.		2	12		Name (and take	Recoverable
Arsenic	112	3.00		ug/L	1		6020B	Total
	22 22			24	12			Recoverable
Barium	43.7	5.00		ug/L	1		6020B	Total
		o de encencia de la companya por		c.55 <b>5</b> 715=557				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

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Lab Sample ID: 680-221296-15

Lab Sample ID: 680-221296-16

Lab Sample ID: 680-221296-17

Lab Sample ID: 680-221296-18

Client Sample ID: AF38182 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	141	-	3.00		ug/L		-	6020B	Total
									Recoverable
Barium	122		5.00		ug/L	1		6020B	Total
									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
Zinc	60.0		20.0		ug/L	1		6020B	Total
									Recoverable

Client Sample ID: AF38183

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74200		5000	75	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

Client Sample ID: AF38184

Analyte	Result	Qualifier RL	MDL U	nit	Dil Fac	D	Method	Prep Type
Calcium	435000	500	ug	g/L	1		6010D	Total
								Recoverable
Iron	38900	100	ug	g/L	1		6010D	Total
								Recoverable
Magnesium	66000	500	ug	g/L	1		6010D	Total
								Recoverable
Potassium	24300	1000	ug	g/L	1		6010D	Total
								Recoverable
Sodium	128000	2000	ug	g/L	1		6010D	Total
								Recoverable
Arsenic	65.9	3.00	ug	g/L	1		6020B	Total
								Recoverable
Barium	280	5.00	ug	g/L	1		6020B	Total
								Recoverable
Beryllium	0.635	0.500	ug	g/L	1		6020B	Total
_								Recoverable

**Client Sample ID: AF38185** 

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	218000		500		ug/L			6010D	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

Job ID: 680-221296-1

Client Sample ID: AF38185 (Continued)

Lah	Sample	ID: 680	1-2212	96-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7720	W	100		ug/L			6010D	Total
Magnesium	10400		500		ug/L	1		6010D	Recoverable Total Recoverable
Potassium	1750		1000		ug/L	1		6010D	Total
Sodium	40300		2000		ug/L	1		6010D	Recoverable Total Recoverable
Barium _	107		5.00		ug/L	1		6020B	Total Recoverable

# Client Sample ID: AF38186

#### Lab Sample ID: 680-221296-19

Analyte	Result	Qualifier RL	MDL U	Unit	Dil Fac	D	Method	Prep Type
Calcium	99000	500	Ţ,	ug/L	1	_	6010D	Total
								Recoverable
Iron	187	100	ι	ug/L	1		6010D	Total
								Recoverable
Magnesium	7950	500	ι	ug/L	1		6010D	Total
								Recoverable
Potassium	4510	1000	, L	ug/L	1		6010D	Total
								Recoverable
Sodium	26200	2000	U	ug/L	1		6010D	Total
								Recoverable

#### Client Sample ID: AF38187

# Lab Sample ID: 680-221296-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	58600	·	500		ug/L		:	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**

# Lab Sample ID: 680-221296-21

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.

**Eurofins Savannah** 

9/30/2022

Page 13 of 75

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

**Client Sample ID: AF38189** 

Job ID: 680-221296-1

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		ug/L	1		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

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Eurofins Savannah

Page 14 of 75

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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: AF38192 (Continued)

Lab Sample ID: 680-221296-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4370		1000		ug/L		-	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: 680-221296-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	23800	10-	500		ug/L		_	6010D	Total
									Recoverable
Iron	2860		100		ug/L	1		6010D	Total
									Recoverable
Magnesium	655		500		ug/L	1		6010D	Total
									Recoverable
Aluminum	2250		100		ug/L	1		6020B	Total
									Recoverable
Barium	51.6		5.00		ug/L	1		6020B	Total
									Recoverable
Cobalt	1.91		0.500		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			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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Page 15 of 75

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38195 (Continued)

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	<u> </u>	-	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	Unit	Dil Fac	D	Method	Prep Type
Calcium	272000	500	2	ug/L		_	6010D	Total
								Recoverable
Iron	2870	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	25900	500		ug/L	1		6010D	Total
								Recoverable
Potassium	6390	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	15600	2000		ug/L	1		6010D	Total
								Recoverable
Barium	39.5	5.00		ug/L	1		6020B	Total
								Recoverable
Zinc	22.4	20.0		ug/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	<del></del>	500		ug/L	1	W-11	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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**Eurofins Savannah** 

Page 16 of 75

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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	t	100		ug/L	1	100011	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	Unit	Dil Fac	D	Method	Prep Type
Calcium	94200	500	-	ug/L		-	6010D	Total
								Recoverable
Iron	2670	100		ug/L	1		6010D	Total
								Recoverable
Magnesium	3430	500		ug/L	1		6010D	Total
								Recoverable
Potassium	3500	1000		ug/L	1		6010D	Total
								Recoverable
Sodium	9770	2000		ug/L	1		6010D	Total
								Recoverable
Arsenic	242	3.00		ug/L	1		6020B	Total
								Recoverable
Barium	60.6	5.00		ug/L	1		6020B	Total
								Recoverable
Cobalt	0.620	0.500		ug/L	1		6020B	Total
_								Recoverable

# Client Sample ID: AF38200

# Lab Sample ID: 680-221296-33

Analyte	Result	Qualifier R	L MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	131000	50	0	ug/L		_	6010D	Total
								Recoverable
Iron	448	10	0	ug/L	1		6010D	Total
								Recoverable
Magnesium	7380	50	0	ug/L	1		6010D	Total
								Recoverable
Potassium	4190	100	0	ug/L	1		6010D	Total
								Recoverable
Sodium	5810	200	0	ug/L	1		6010D	Total
								Recoverable
Arsenic	3.70	3.0	0	ug/L	1		6020B	Total
								Recoverable
Barium	36.6	5.0	0	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

Lab Sample ID: 680-221296-1

Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38168 Date Collected: 07/06/22 14:06

Date Received: 09/16/22 10:30

Analyte	Result	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

					_				
Method: 6020B - Metals (IC	P/MS) - Total F	Recoverable	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

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-2

Jampic ID. 000-22 1250-2

Job ID: 680-221296-1

Matrix: Water

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
Iron	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

Sodium	27600		2000		ug/L		09/20/22 05:39	09/20/22 15:11	1
Method: 6020B - Metals (IC	CP/MS) - Total F	Recoverable							
Analyte	Result	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	U	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

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-3

**Matrix: Water** 

Job ID: 680-221296-1

**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

Oddiam	100000		2000		49/2		00/20/22 00:22	00/20/22 10.21	
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 05:22	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

Job ID: 680-221296-1

**Matrix: Water** 

**Client Sample ID: AF38171** Date Collected: 07/20/22 14:12

Date Received: 09/16/22 10:30

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

Oddidiii	120000		2000		ug/L		00/20/22 00.00	00/20/22 10.11	
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable	1						
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	U	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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-5

**Matrix: Water** 

Job ID: 680-221296-1

Date Collected: 07/20/22 14:17 Date Received: 09/16/22 10:30

**Client Sample ID: AF38172** 

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

Codidin	110000		2000		49/2		00/20/22 00.22	00/20/22 10.01	•
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable	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 21:42	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

**Matrix: Water** 

Job ID: 680-221296-1

**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

Sodium	104000		2000		ug/L		09/20/22 05:22	09/20/22 16:39	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 05:22	09/20/22 21:26	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Arsenic	7.21		3.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Barium	90.3		5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:26	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-7

ib Gampic ib. 000-22 1200-7

Matrix: Water

Job ID: 680-221296-1

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

Sodium	96600		2000		ug/L		09/20/22 05:22	09/20/22 16:59	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 05:22	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

**Client Sample ID: AF38175** Date Collected: 07/20/22 13:17 Date Received: 09/16/22 10:30

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

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

9/30/2022

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 - Meta	Is (ICP/MS) - Total F	Recoverable							
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

Lab Sample ID: 680-221296-10

**Matrix: Water** 

Job ID: 680-221296-1

**Client Sample ID: AF38177** Date Collected: 07/14/22 12:48 Date Received: 09/16/22 10:30

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

111000				-9				
S) - Total F	Recoverable							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
156		100		ug/L		09/20/22 05:39	09/20/22 23:39	1
5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
70.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:39	1
	15) - Total F Result 156 5.00 3.00 70.2 0.500 0.500 5.00 2.50 5.00 2.50 1.00	S   - Total Recoverable   Result   Qualifier     156	Name	Name	S   - Total Recoverable   Result   Qualifier   RL   MDL   Unit   Ug/L	S   - Total Recoverable   Result   Qualifier   RL   MDL   Unit   D	No.   Total Recoverable   Result   Qualifier   RL   MDL   Unit   D   Prepared   09/20/22 05:39   1.00   Ug/L   09/20/22 05	No.   Total Recoverable   Result   Qualifier   RL   MDL   Unit   D   Prepared   Analyzed   09/20/22 05:39   09/20/22 23:39   5.00   U   5.00   Ug/L   09/20/22 05:39   09/20/22 23:39   3.00   U   3.00   Ug/L   09/20/22 05:39   09/20/22 23:39   70.2   5.00   Ug/L   09/20/22 05:39   09/20/22 23:39   0.500   U   0.500   Ug/L   0.500   Ug/L   0.500   0.500   0.500   Ug/L   0.500

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

Oddani	00000		2000		ug/L		00/20/22 00.00	00/20/22 10:01	
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	09/21/22 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

Oddiam	0-1000		2000		ug/ L		00/20/22 00.00	00/20/22 10:01	
Method: 6020B - Meta	ıls (ICP/MS) - Total F	Recoverable	3						
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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-13

Job ID: 680-221296-1

**Matrix: Water** 

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

- Couldin	20100				-9				
Method: 6020B - Metals (I	CP/MS) - Total F	Recoverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	241		100		ug/L		09/20/22 05:39	09/20/22 23:23	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Arsenic	189		3.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Barium	76.0		5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Cobalt	2.07		0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
Thallium	1.00	Ū	1.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:23	1

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	-10
Method: 6020B - Meta	Is (ICP/MS) - Total F	Recoverable	•						
Analyte	Result	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	U	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

Lab Sample ID: 680-221296-15

**Matrix: Water** 

Job ID: 680-221296-1

Date Collected: 07/28/22 11:00 Date Received: 09/16/22 10:30

**Client Sample ID: AF38182** 

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

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
Selenium	3.98		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Zinc	60.0		20.0		ug/L		09/20/22 05:22	09/20/22 21:03	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-16

Impic ID: 000-22 1200-10

Job ID: 680-221296-1

Matrix: Water

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

- Socialii	20000	U	20000		ug/L		03/21/22 13.44	03/21/22 10.43	
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	<b>)</b>						
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

**Matrix: Water** 

Job ID: 680-221296-1

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

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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-18

Job ID: 680-221296-1

**Matrix: Water** 

Date	Collected:	07/13/22	12:25
Date	Received:	09/16/22	10:30

Client Sample ID: AF38185

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
lron	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
Method: 6020B - Metal	s (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 23:11	1
Antimony	5.00	EE	5.00		ua/l		00/20/22 05:30	00/20/22 23:44	1

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 23:11	
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	U	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

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** 

Date Collected: 07/13/22 15:31 Date Received: 09/16/22 10:30

**Client Sample ID: AF38186** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	99000		500		ug/L		09/20/22 05:22	09/20/22 16:34	1
Iron	187		100		ug/L		09/20/22 05:22	09/20/22 16:34	1
Magnesium	7950		500		ug/L		09/20/22 05:22	09/20/22 16:34	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:34	1
Potassium	4510		1000		ug/L		09/20/22 05:22	09/20/22 16:34	1
Sodium	26200		2000		ug/L		09/20/22 05:22	09/20/22 16:34	1

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	Ū	1.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:11	1

9/30/2022

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-20

**Matrix: Water** 

Job ID: 680-221296-1

**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

Oddidiii	3720		2000		ug/L		00/20/22 00.22	00/20/22 10.12	3.0
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable	i.						
Analyte		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	1
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	Ū	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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-21

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Matrix: Water

Job ID: 680-221296-1

Client Sample ID: AF38188
Date Collected: 07/11/22 11:41
Date Received: 09/16/22 10:30

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
Iron	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

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
Aluminum	173		100		ug/L		09/20/22 05:22	09/20/22 21:34	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Barium	45.8		5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:34	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:34	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:34	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-22

**Matrix: Water** 

Job ID: 680-221296-1

<b>Client Sample ID: AF38189</b>
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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	155		100		ug/L		09/20/22 05:43	09/21/22 00:21	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Barium	39.4		5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:43	09/21/22 00:21	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-23

**Matrix: Water** 

Job ID: 680-221296-1

Client Sample ID: AF38190 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

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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-24

**Matrix: Water** 

Job ID: 680-221296-1

Client Sample ID: AF38191 Date Collected: 07/12/22 10:44 Date Received: 09/16/22 10:30

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

Sodium	11500		2000		ug/L		09/20/22 05:39	09/20/22 15:21	1
Method: 6020B - Metals (I	CP/MS) - Total F	Recoverable							
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	Ü	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

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

**Client Sample ID: AF38192** Date Collected: 07/12/22 14:55 Date Received: 09/16/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	337000		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

Oddani	0000		2000		49/2		00/20/22 00.00	00/20/22 10.11	
Method: 6020B - Meta	ls (ICP/MS) - Total F	Recoverable	2						
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	Ü	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	Ū	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

**Matrix: Water** 

Job ID: 680-221296-1

**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

Sodium -	2000	U	2000		ug/L		09/20/22 05:22	09/20/22 16:32	1
Method: 6020B - Metals	(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	1
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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-27

**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	1
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		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

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

Date Collected: 07/11/22 15:35 Date Received: 09/16/22 10:30

**Client Sample ID: AF38195** 

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

Souldin	2700		2000		ug/L		03/20/22 03.22	03/20/22 17:04	:11
Method: 6020B - Meta	Is (ICP/MS) - Total F	Recoverable							
Analyte	Result	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

**Matrix: Water** 

Job ID: 680-221296-1

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

Sodium	2310		2000		ug/L		03/20/22 03.22	09/20/22 10.27	1
Method: 6020B - Meta	Is (ICP/MS) - Total F	Recoverable							
Analyte	Result	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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-30

NC ID. 000-12 1200-00

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
Iron	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	Ü	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

- Control Cont				-				
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 05:22	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	Ü	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	Ū	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
				7.7.1.1.1. <u>-</u> .1.1.1.1.1				

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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	Samp	ie in:	AF	38198	
D-4- 0		. 07/0	7100	40.07	

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

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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-32

**Matrix: Water** 

Job ID: 680-221296-1

Client Sample ID: AF38199 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

Sodium	9770		2000		ug/L		09/20/22 03.22	09/20/22 10.37	1
Method: 6020B - Meta	als (ICP/MS) - Total F	Recoverable							
Analyte		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

**Matrix: Water** 

Job ID: 680-221296-1

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

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

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

**Matrix: Water** 

Analysis Batch: 741353

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

Lab Sample ID: LCS 680-741164/2-A

**Matrix: Water** 

Analysis Batch: 741353

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable** 

Prep Batch: 741164

Analysis Batom 741000	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	5000	4657	(3	ug/L	- 0 2-0	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

**Matrix: Water** 

Analysis Batch: 741362

Client Sample ID: Method Blank Prep Type: Total Recoverable

**Prep Batch: 741168** 

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Calcium 500 U 500 09/20/22 05:39 09/20/22 14:59 ug/L Iron 100 U 100 ug/L 09/20/22 05:39 09/20/22 14:59 Magnesium 500 U 500 ug/L 09/20/22 05:39 09/20/22 14:59 Molybdenum 10.0 U 10.0 ug/L 09/20/22 05:39 09/20/22 14:59 Potassium 1000 U 1000 ug/L 09/20/22 05:39 09/20/22 14:59 Sodium 2000 U 2000 ug/L 09/20/22 05:39 09/20/22 14:59

Lab Sample ID: LCS 680-741168/2-A

**Matrix: Water** 

Analysis Batch: 741362

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

**Prep Batch: 741168** 

Analysis Baton. 741002	Spike		LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	5000	4439	8. 0	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

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
Calcium	17600	F1	5000	21160	F1	ug/L		71	75 - 125

**Eurofins Savannah** 

Page 51 of 75

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	* ***	5000	5014	*	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

Allary 515 Batoll. 141002									1 ICP DO	CONTRACT OF	TITOU
	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	9	ug/L	- 2 7 7 7 7	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

	INIB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500	-	ug/L		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

**Eurofins Savannah** 

Page 52 of 75

9/30/2022

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

	MB	MB								
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		ug/L		09/28/22 09:50	09/29/22 08:50	1	

Lab Sample ID: LCS 680-742555/2-A

Matrix: Water

Analysis Databy 742702

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 742555

Analysis Batch: 742783	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Calcium	5000	4727	14	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 Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 741166

Analysis Daten. 141005								rich Bateii.	7 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
	_0.0								

Lab Sample ID: LCS 680-741166/2-A

Matrix: Water

Analysis Batch: 741389

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable **Prep Batch: 741166** 

,, e.e <u></u>	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	5623	X	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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9/30/2022

Page 53 of 75

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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

Lab Sample ID: LCS 680-741166/2-A

**Matrix: Water** 

Analysis Batch: 741389

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable **Prep Batch: 741166** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Cobalt 50.0 55.31 111 80-120 ug/L Copper 100 120.0 ug/L 120 80 - 120 505 516.0 ug/L 102 80-120 Lead Nickel 99.0 111.2 ug/L 112 80-120 Selenium 100 110.0 ug/L 110 80 - 120 Thallium 50.0 52.52 105 80-120 ug/L 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 09/20/22 05:39 09/20/22 22:48 Copper 5.00 U 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 Zinc 20.0 U 20.0 ug/L 09/20/22 05:39 09/20/22 22:48

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: 741369	Spike	LCS	LCS				%Rec
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	5260	-	ug/L	- 1 -	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

Page 54 of 75

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** 

		10±00 E	200	0202020	and the same of th				
	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	U	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** 

Client Sample ID: AF38194 **Prep Type: Total Recoverable** 

Analysis Batch: 741389									Prep Ba	atch: /4	41169
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	3180		5000	8042	: <del></del>	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	1	20
Barium	32.4		100	125.3		ug/L		93	75 - 125	0	20
Beryllium	0.500	U	50.0	44.51		ug/L		88	75-125	1	20
Cadmium	0.500	U	50.0	52.84		ug/L		106	75 - 125	3	20
Chromium	5.00	U ^6+	100	101.8	^6+	ug/L		102	75 - 125	2	20
Cobalt	0.885		50.0	52.19		ug/L		103	75 - 125	2	20
Copper	5.00	U	100	112.1		ug/L		112	75 - 125	2	20
Lead	2.50	U	505	474.1		ug/L		94	75 - 125	2	20
Nickel	5.00	U	99.0	103.9		ug/L		105	75 - 125	1	20
Selenium	2.50	U	100	98.50		ug/L		98	75 - 125	1	20
Thallium	1.00	U	50.0	48.52		ug/L		97	75 - 125	2	20
Zinc	20.0	U	100	101.8		ug/L		102	75-125	1	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** 

	IVI D	INID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 10:24	09/22/22 01:29	1
Antimony	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Barium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
Chromium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
Copper	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1

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**Eurofins Savannah** 

Page 55 of 75

9/30/2022

### **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** 

MB	МВ						-	
esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

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 Client Sample ID: Lab Control Sample

**Matrix: Water** 

Analysis Batch: 741576

Prep Type: Total Recoverable Prep Batch: 741235

Analysis Batch: 741576	Spike	1.00	LCS				%Rec
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
Aluminum	5000	5232	9	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

9/30/2022

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	
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	<del>-</del>
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	

Eurofins Savannah

Page 57 of 75

2

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7

10

11

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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

680-221296-1 680-221296-2	AF38168 AF38169	Total Recoverable	Water		
680-221296-2	ΔE38169		vvalci	3005A	- H 4
	A 30 103	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

Eurofins Savannah

9/30/2022

Page 58 of 75

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13

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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)**

#### 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

Eurofins Savannah

Page 59 of 75

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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	

Eurofins Savannah

Page 60 of 75

9

3

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6

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10

13

1/2

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

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

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38168 Lab Sample ID: 680-221296-1 Date Collected: 07/06/22 14:06

**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	34 (2)		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

Lab Sample ID: 680-221296-2 Client Sample ID: AF38169 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	2 3		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

Matrix: Water

Date Collected: 07/18/22 13:12 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 741164 RR **EET SAV** 09/20/22 05:22 Total Recoverable 6010D 741353 BCB 09/20/22 16:24 Analysis **EET SAV** 1

Total Recoverable Prep 3005A 741166 RR EET SAV 09/20/22 05:22 Total Recoverable 741389 BWR EET SAV 09/20/22 20:55 Analysis 6020B 1

Client Sample ID: AF38171 Lab Sample ID: 680-221296-4

Date Collected: 07/20/22 14:12 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			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			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

**Eurofins Savannah** 

Page 62 of 75

9/30/2022

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			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 Lab Sample ID: 680-221296-6

Date Collected: 07/20/22 11:00 Matrix: Water Date Received: 09/16/22 10:30

Batch Batch Dilution Batch Prepared Method Number Analyst or Analyzed Prep Type Type Run Factor Lab 09/20/22 05:22 Total Recoverable Prep 3005A 741164 RR **EET SAV** Total Recoverable 09/20/22 16:39 Analysis 6010D 741353 BCB **EET SAV** 1 Total Recoverable Prep 3005A 741164 RR **EET SAV** 09/20/22 05:22 Total Recoverable 6010D 10 741586 BJB EET SAV Analysis 09/21/22 15:30 Total Recoverable Prep 3005A 741166 RR EET SAV 09/20/22 05:22 Total Recoverable 741389 BWR EET SAV 09/20/22 21:26 Analysis 6020B 1

Client Sample ID: AF38174 Lab Sample ID: 680-221296-7

Date Collected: 07/20/22 12:20 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 16:59
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 Lab Sample ID: 680-221296-8

Date Collected: 07/20/22 13:17 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			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 Lab Sample ID: 680-221296-9

Date Collected: 07/18/22 14:30 **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 15:57
Total Recoverable	Prep	3005A			741169	100 630 60	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:09

Page 63 of 75

**Eurofins Savannah** 

9/30/2022

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-10

Matrix: Water

Date Collected: 07/14/22 12:48 Date Received: 09/16/22 10:30

Client Sample ID: AF38177

	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 or Analyzed Number Analyst Prep Type 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 6020B 741389 BWR 09/21/22 00:06 Analysis 1

Client Sample ID: AF38179 Lab Sample ID: 680-221296-12 Date Collected: 07/12/22 12:40

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 741168 RR **EET SAV** 09/20/22 05:39 6010D 741362 BCB Total Recoverable 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 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		13 53	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

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	6 2	3 23	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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Project/Site: 125915/JM02.09.G01.1/36500

Client: South Carolina Public Service Authority

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	20 20		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 Lab Sample ID: 680-221296-16

**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	BJB	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			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

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**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total Recoverable	Prep	3005A			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: 680-221296-19

**Matrix: Water** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	6 2	3 23	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

**Eurofins Savannah** 

Page 65 of 75

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38187 Date Collected: 07/11/22 10:30

Lab Sample ID: 680-221296-20

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	38 (5		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

Client Sample ID: AF38188 Lab Sample ID: 680-221296-21 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	32 8		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	

Client Sample ID: AF38189 Lab Sample ID: 680-221296-22

Date Collected: 07/11/22 11:46 Matrix: Water

Date Received: 09/16/22 10:30

	Batch	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	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:59
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:43
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:21

Client Sample ID: AF38190 Lab Sample ID: 680-221296-23 **Matrix: Water** 

Date Collected: 07/06/22 10:23 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 15:36	
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 Total Recoverable	Prep Analysis	3005A 6020B		1	741169 741389		EET SAV EET SAV	09/20/22 05:39 09/20/22 23:15

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF38192

Date Collected: 07/12/22 14:55 Date Received: 09/16/22 10:30 Lab Sample ID: 680-221296-25

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 15:44
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

Date Collected: 07/11/22 13:38

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-26

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	2 2	_ = ===================================	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

Client Sample ID: AF38194

Date Collected: 07/11/22 14:41

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-27

**Matrix: Water** 

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B	Batch	Batch	<b></b>	Dilution	Batch	A COUNTY OF	Cate	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 15:04
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

Date Collected: 07/11/22 15:35

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-28

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 17:04
Total Recoverable Total Recoverable	Prep Analysis	3005A 6020B		ĩ	741166 741389	F000000000	EET SAV EET SAV	09/20/22 05:22 09/20/22 21:58

Client Sample ID: AF38196

Date Collected: 07/11/22 15:40

Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-29

**Matrix: Water** 

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A	¥ 5		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

**Eurofins Savannah** 

Page 67 of 75

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-221296-30

**Matrix: Water** 

Client Sample ID: AF38197 Date Collected: 07/12/22 13:58

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 16:57
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

Lab Sample ID: 680-221296-31 Client Sample ID: AF38198

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			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			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

=0	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 17:02
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

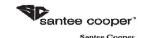
Cus	tomer	Email	/Re	port Recipi	ent:	Date R	esults N	eeded	by:			Pr	oject/	Task/l	Unit #:	Rerun reques	t for a	ny fla	aggeo	I QC
L	CWILL	LIA		_@santeed	cooper.com	/	'				125	715	/ JA	102.0	09. GØ1. 1/ 36:	SCO (Yes)	No			
																		Analys	ls Grou	ПD
	oworks ternal u ly)	ment on 55		mple Location	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)	Method #     Reporting lir     Misc, sample     Any other no	info	TOTALMETALS	We low		
AF	381	68	W	AF- 12		7/6/22	1406	DEN	1	l	þ	G	GW	2	USE APPROI	TRIATE	X			
	1	69		1 12	DUP	7	1411	1		1					MEDHED TO		1			
		70		13		7/18	13/2	1							-SEE SHEL	ET FOR PLS				
		71		14		7/20	1412	DEW												
		72		14	DUP	7/20	1417													
		73		14A		7/20	1100													
		74		148			1220								680-221	296 Chain of Custo	odv			_
		75		_ 140		L	1317											1		_
1		76	V	1AP-15		1/18	1430	L												
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	elinquist Huw			Employee#	9/15/22	Time	Receiv	ed by:		En	mployee	#	Date		TEM	le Receiving (Internal P (°C):	Use O Initia			-
R	elinguisi	hed by:		Employee#	Date	Time	Receiv	ed by:		Er	nployee	#	Date		11me	ect pH: Yes No rvative Lot#:	!			
R	elinquist	hed by:		Employee#	Date	Time	Recelv	ed by:		En	nployee	#	Date	and the second	Time					
															Date/	Time/Init for preserv	ative:		1801	
			TA	LS (all)	Nut	rients	MI	SC.			Gv	psun	n		Coal	Flyash		Oi		
	707	Z Cu		ØSb	пто		□ BTEX			o	Walibo		_	1 .	Ultimate	☐ Ammonia	Tr	ans. Oi		
Z F		Ø Fe		[ℤ/Se	DO	c l	□ Napthale					sum(a	II .	₩ ~	□ % Moisture	D LOI	- 0	%Mois		
JA A	As	ØК		□ Sn		1107	□ THM/H. □ VOC	AA			belo:				□ Ash	□ % Carbon		`olor Acidity		
DΕ		OLi		□ Sr	□ NH □ F	3-1	🛛 Oil & G	rease			υтο	C			☐ Sulfur ☐ BTUs	☐ Mineral	. I	) ielectric	Streng	th
ØE	}a	ZM	3	□ Ti	nci		☐ E. Coli ☐ Total Co	liform				al meta			☐ Volatile Matter	Analysis  ☐ Sieve		FT Dissolv	ed Gas	es
ØE	le .	□Mı	a	ØTI	□NO		□ pH	miorili				uble Mi ity (Cal			□ CHN	□ % Moisture		ed Ol		
D/C		Z Mo	)	οv	□ Br		☐ Dissolve				□% N	doistur			ther Tests:			lashpo		
ØC		ØNa	<del></del>	ℤZn	□ NO □ SO-	4	☐ Rad 226	*****	1		□ Sul □ pH				KRF Scan IGI	NPDES		detals i As,Cd,		Ph
Z C		√Ni		□Hg	"		☐ Rad 228		1		□ Chl	orides.	13.	ום 🏻	ineness	□ Oil & Grease □ As		lg) X		
ZC		Ø Pb		□ CrVI			□ PCB			г	□ Pari Sulfur	icle Siz	e	1 01	articulate Matter	OTSS		A )FER		
				1	on the second			<del></del>		•		<u> </u>			er de production de la company de la comp	12 9/11			Λ <u>λ</u>	N

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-mlsc (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 (S



Santee Cooper One Riverwood Drive Moncks Corner SC 2946t e (843)761-8000 Ext. 5148 Fax: (843)761-4175

**Customer Email/Report Recipient:** Rerun request for any flagged QC Date Results Needed by: Project/Task/Unit #: LCWILLIA 125915 / JM02.09. GØ1. 1/ 36500 Yes @santeecooper.com No **Analysis Group** Labworks ID# Sample Location/ Comments Preservative (see below) Matrix(see below (Internal use Description **Collection Date Collection Time** Method# Sample Collector only) Total # of contal Reporting limit Grab (G) or Composite (C) METALS Bottle type: (G/Plastic-P) Misc. sample info Any other notes EITHER DEW 7/12 G GW 2 1. USE MEHIOD TO MEET TELS 1235 AF38178 WAP 17 1 1 17 bup 1240 79 7/7 1443 -SEE SHEET FUR RLS 80 WAP-18 DEW 81 19 1/13 1108 1/28 1100 DEW 82 WAP - 20 C DEW 7/14 G 83 WAP- 21 1045 DEW 7/7 1344 84 WAP-22 BM 23 7/13 1225 85 1 1 86 24 1531 DEW 7/11 1030 87 WAP-25 BM Sample Receiving (Internal Use Only) Relinquished by: Date Received by: Employee# Time Employee # Date Time TEMP (°C): Initial: 35594 9/15/22 1500 Symoun Correct pH: Yes No Relinguished by: Received by: Employee# Date Time Employee# Date Time Preservative Lot#: Relinquished by: Employee# Date Received by: Employee# Date Time Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. **Gypsum** Coal Oil Flyash □ Ag □ Cu DITOC DBTEX □ Wallboard Trans. Oil Qual. ☐ Ultimate □ Ammonia □ Al □ Fe □ Se □ Napthalene O DOC Gypsum(all %Moisture ☐ % Moisture DLOI O THM/HAA Color □ As  $\Box K$ □ TP/TPO4 below) □ Ash □ % Carbon O VOC Acidity □ NH3-N ☐ Sulfur ☐ Mineral  $\square B$ □ Li □ Sr Dielectric Strength Oil & Grease DITOC OF □ BTUs Analysis IFT DE. Coli □Mg □ Ti ☐ Total metals □ Ba O CI ☐ Volatile Matter ☐ Sieve Dissolved Gases ☐ Total Coliform ☐ Soluble Metals □ Be □ Mn □ NO2 □ CHN Used Oil □pH D Purity (CaSO4) ☐ % Moisture ∩ Br ☐ Dissolved As Other Tests: Flashpoint ☐ % Moisture □ Ca □Мо  $\Box V$ ☐ Sulfites ☐ Dissolved Fe ☐ XRF Scan Metals in oil EI NO3 **NPDES** (As,Cd,Ct,Nl,Pb Hg) □ Cd □ Na □ Zn □ Rad 226 □ pH
□ Chlorides D HGI □ SO4 DOIL & Grease ☐ Rad 228 ☐ Fineness 1000 □ Co □ Ni □Hg □ PCB ☐ Particulate Matter TI As ☐ Particle Size D TSS GOFER ☐ Cr □ Pb □ CrVI O Sulfur



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

Custon	ner Email	/Re <sub>l</sub>	port Recipie	ent:	Date F	Results Ne	ede	d by:			P	roject/	Task/l	Unit #:		Rerun request			gged (	
LCN	ILLIA		_@santeec	ooper.com		<i> </i>				125	915	JUN	102.0	7.6ø1.1	<u>J 365∞</u>	Yes	No			
																	5	Analysi	s Group	<u>)</u>
Labwoi (Interno only)		1	mple Locatio scription	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     Miss     Any	Comment that # orting limit c. sample info		TOTALMETAUS			
AF38	8188	W	AP-26		7/11	114-1	TEV	W.	l	8	6	GW	2	USE A	PPROPRIA	HE METHOD	×			
	84	W	ap-26 b	out .	工	1146			1	1	1	1		TO ME	ET RLS.					
	90	W	1BM-I		7/6	1023								SEE S	HEET F	or rls				
	91	W	BW-AI-	1	7/12	1044											Ш			
	92	w	UF A-1-1		7/12	1455														
	93	w	UF-A1-2	2.	7/11	1338						Ш					Ш			
	94		[	3		1441				Ш										
	95		L	†		1535						Ц_			90.2 2000 v.					
	96	1	_ 4	DUP		1540														
	97	WL	F-A1-5		7/12	1358			Ţ	<u> </u>	1	<u> </u>					1			
Relino	quished by:		Employee#	Date	Time	Receiv	ed by	:	E	mployee	#	Date	B	Time		ceiving (Internal C):				
SHOU				9/15/22	1500										Correct pl	H: Yes No				
Relino	quished by:		Employee#	Date	Time	Receiv	ed by		E	mployee	#	Date	•	Time	Preservati					
Relino	quished by:		Employee#	Date	Time	Receiv	ed by	<b>.</b>	E)	mployee	H	Date	•	Time						
															Date/Time	/Init for preserv	ative:	2000		
		ETA	LS (all)	Nut	rients	<u>MI</u> :	SC.			G۱	/psui	m		Coal	-	<u>Flyash</u>		<u> Oi</u>	1	
□ Ag		DESCRIPTION OF THE PARTY.	□ Sb	- TO		□ BTEX	-			Wallb				Ultimate		Ammonia	Tr		I Qual.	
D Al	OF		□ Se	D DC		☐ Napthale					sum(a	all		□ % Moist	ure 📗	LOI		%Mois ∃elor		
□ As	□ K		□ Sn	L IP	/TPO4	□ VOC				belo A				□ Ash □ Sulfur		% Carbon Mineral		Acidity		
□ B			□ Sr	DF		□ Oil & Gi □ E. Coli	rease			OTO		ala		□ BTUs		Analysis		tielectric FT	Strength	).
□ Ba	□ M		O Ts	D CI		☐ Total Co	liforn	ı.			ital met luble N			☐ Volatile		Sieve	, for	Dissolv	ed Gase	S
□ Be			D TI	□ NC □ Br		□ pH □ Dissolve	d As				rity (Ca Moistu		0	☐ CHN ther Tests:		% Moisture		ed Ol Tashpo		
□ Ca	DM		DV	LJ NC		□ Dissolve	d Fe				Moisiu dfites	16		XRF Scan		NPDES	- 61	detals	n oil	
□ Cd	□N	a	□ Zn	□ SO	4	☐ Rad 226 ☐ Rad 228				□ pE	l ilorides			HGI Fineness		Oil & Grease		As,Cd Ig)	Cr,Ni,P	0
□С₀	DИ		□ Hg			□ PCB				□ Pa	niele S			Particulate Ma		As TSS		Х		
□Ст	D PI	)	□ C <sub>7</sub> VI			<u> </u>				∃ Sulfür		econolis .		9) <u>3 Hord</u>			631	HER		
																		0	hilo	27

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



Custome	er Email,	/Report R	ecipie	ent:	Date	Results Ne	eded b	y:		Pr	oject/	Task/l	Unit #:		Rerun request	for a	ny fla	gged Q	C
LCWI	LUA	@sa	nteec	ooper.com	-	JJ			125	915	1 on	102.6	9 GØ1.1	<u> </u>	_ (es)	No			
																į	Analysis	Group	
Labworks (Internal anly)		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)	Met     Rep     Miss     Any	Commer hod # orting limit c. sample info other notes		METALS SPE BELOW	2		
AF381	98	WLF-	A2-	2	7/7	1237	DEW	ı	P	G	GW	2	USE A	PPROPRIA	HE METHED	, *			
ı	99	WLF-			T	1137	上	1		)	1	1	TO MEE	T RLS					
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29 minde	ished by:	Emplo	учеен	9/15/21	Time 1500	Receiv	ed by:		mployee	#	Date		Time		·):	Initia	l:		
Relinqui	ished by:	Emplo	yee#	Date	Time	Receiv	ed by:	Ei	mployee	#	Date		Time	Correct p		(			
						90.79-10.03129007340.	32.7		VIII SAU SE		VCCC (1.001.01)			Preservati	ve Lot#:				
Relingul	shed by:	Emplo	yee#	Date	Time	Receiv	ed by:	Er	nployee	#	Date		Time	Date/Time	/Init for preserv	estiva			
	п ме	TALS (	all V											Date) Illino	, military present	acive;			
□ Ag	□ Cu	HARMONICO PROPERTY OF THE PERSON NAMED IN COLUMN 1975	Sb	Nut	<u>rients</u>	MI: □ BTEX	<u>sc.</u>		Gy Wallbo	psur	ם		<u>Coal</u>		<u>Flyash</u>	<b>.</b>	<u>Oil</u> ms, Oil	OI	
□Al	□Fe		Se	D DO		☐ Napthale				sum(a	11	1 "	Ultimate  ☐ % Moist		Ammonia LOI	•	%Moist	ure	
□ As	ΠK		Sn		TPO4	☐ THM/H. ☐ VOC	AA		belo				□ Ash	CONTROL OF THE STREET	% Carbon		olor Veidity		
□В	□Li	ם		□ NH □ F	.3-IN	🗆 Oil & Gi	rease		O TO	IC .			☐ Sulfur ☐ BTUs	U	Mineral Analysis	, D	rielectric FT	Strength	
□Ва				D CI		□ E. Coli □ Total Co	liform			ial meta luble M			□ Volatile		Sieve			d Gases	
□Ве	□ Mı			□ N0		□pH			🗆 Pur	rity (Ca	SO4)		□ CHN ther Tests:	0	% Moisture		ed Oil		
□ Ca	□Мо			□ Br □ NO		☐ Dissolve ☐ Dissolve	d Fe		□ % l	Moistur littes	е		MEF Tests: XRF Scan		NPDES	N.	lashpoi Actals i	n oil · ·	
□ Cd	□ Na		Zn	□ <b>S</b> O		☐ Rad 226 ☐ Rad 228			□рН			01	HGI Fineness	п	Oil & Grease		As,Cd; lg)	Cr,Ni,Pb	
□Со	□ N₁		Hg			☐ PCB				lorides ticle Si	zę	01	Particulate Ma	tter I U	As	- 1	Х		
□ Cr	□ Pb		CrVI				-	Ę	Sulfur				t <del>H't</del> i	0′	188	eo	FER		
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Table of Reporting Limits for Groundwater Samples-- Metals Only

Odiny	iles ivietai	3 Olliy	
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	
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		also also person
Potassium	mg/L		
Selenium	ug/L	50	5
Sodium	mg/L		
Thallium	ug/L	2	1
Zinc	ug/L	5000	

# **Login Sample Receipt Checklist**

Client: South Carolina Public Service Authority

Job Number: 680-221296-1

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	<b>Expiration Date</b>
South Carolina	State	98001	06-30-22 *

1

v

7

(8)

11

14

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.











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

gel.com

August 16, 2022

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

Re: ABS Lab Analytical Work Order: 588993

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 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,

Jessica Ward for Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



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# Certificate of Analysis Report for

# SOOP001 Santee Cooper

Client SDG: 588993 GEL Work Order: 588993

#### The Qualifiers in this report are defined as follows:

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

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

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

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

Reviewed by

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

**Certificate of Analysis** 

Report Date: August 16, 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: AF41640
Sample ID: 588993001
Matrix: Ground Water
Collect Date: 08-AUG-22 13:25
Receive Date: 09-AUG-22

d Water

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	e Batch	Method
Carbon Analysis												3.
SM 5310 B Total Organ	iic Carbon "A	As Received"										
Total Organic Carbon Averag	e	24.0	1.65	5.00	mg/L		5	RM3	08/13/22	1455	2301646	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfic	le "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1131	2301825	2
Titration and Ion Analys	sis											
SM 2320B Total Alkalii	nity "As Rece	eived"										
Alkalinity, Total as CaCO3		287	1.45	4.00	mg/L			HH2	08/10/22	1418	2300028	3
Bicarbonate alkalinity (CaCO	3)	287	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

 Method
 Description
 Analyst Comments

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

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

The following Analytical Methods were performed:

Collector:

#### **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 3 of 17 SDG: 588993

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 16, 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: AF41640
Sample ID: 588993002
Matrix: Ground Water
Collect Date: 08-AUG-22 13:25
Receive Date: 09-AUG-22

Receive Date: 09-AU0 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	e Batch	Method
Carbon Analysis												3.
SM 5310 B Dissolved Organic Carbon "As Received"												
Dissolved Organic Carl	bon Average	23.7	1.65	5.00	mg/L		5	RM3	08/13/22	1555	2302324	1
The following Analytical Methods were performed:												
Mathad	Description	5			100	مراسم ا	of Co	na na ant	a			

Method Description Analyst Comments
SM 5310 B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 17 SDG: 588993

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**Certificate of Analysis** 

Report Date: August 16, 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: AF41635
Sample ID: 588993003
Matrix: Ground Water
Collect Date: 08-AUG-22 14:25
Receive Date: 09-AUG-22

Client

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	As Received"									
Total Organic Carbon Averag	e	1.60	0.330	1.00	mg/L		1	RM3	08/12/22	2115 2301646	<u> </u>
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide "As Received"											
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1131 2301825	5 2
Titration and Ion Analys	sis										
SM 2320B Total Alkalii	nity "As Rec	eived"									
Alkalinity, Total as CaCO3		9.00	1.45	4.00	mg/L			HH2	08/10/22	1421 2300028	3
Bicarbonate alkalinity (CaCO	3)	9.00	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytic	al Methods v	vere performe	d:								

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

Collector:

## Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 5 of 17 SDG: 588993

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**Certificate of Analysis** 

Report Date: August 16, 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: AF41635 588993004

Matrix:
Collect Date:

Ground Water 08-AUG-22 14:25 09-AUG-22

Receive Date: Collector:

Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average

..27

0.330

1.00

mg/L

Analyst Comments

Project:

Client ID:

RM3 08/13/22 0651 2302324

SOOP00119

SOOP001

13/22 0651 2302324

The following Analytical Methods were performed:

Method Description

SM 5310 B

SM 5310 E

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 6 of 17 SDG: 588993

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 16, 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: AF41636 Sample ID: 588993005 Matrix: Ground Water Collect Date: 08-AUG-22 15:27 Receive Date:

09-AUG-22

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organi	c Carbon "A	As Received"									
Total Organic Carbon Average		1.14	0.330	1.00	mg/L		1	RM3	08/12/22	2157 2301646	5 1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132 2301825	2
Titration and Ion Analysi	is										
SM 2320B Total Alkalin	ity "As Rec	eived"									
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			HH2	08/10/22	1423 2300028	3
Bicarbonate alkalinity (CaCO3)	) U	ND	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytica	l Methods v	vere performed:									
Method	Description				1	Analys	st Co	mment	S		

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

Collector:

## **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 7 of 17 SDG: 588993

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**Certificate of Analysis** 

Report Date: August 16, 2022

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 AF41636

Sample ID:

588993006

Matrix: Collect Date: Ground Water 08-AUG-22 15:27

Receive Date: Collector:

09-AUG-22 Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average

0.330

1.00 mg/L

Project:

Client ID:

RM3 08/13/22 0711 2302324

SOOP00119

SOOP001

The following Analytical Methods were performed:

Method Analyst Comments Description

SM 5310 B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 8 of 17 SDG: 588993

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**QC** Summary

Report Date: August 16, 2022

Page 1 of 3

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 588993

Parmname	NOM	Sample (	Qual QC	Units	RPD%	REC%	Range A	nlst	Date Time
Carbon Analysis Batch 2301646 ——									
QC1205161433 588993001 DUP Total Organic Carbon Average		24.0	24.1	mg/L	0.312 ^		(+/-5.00)	RM3	08/13/22 15:15
QC1205161428 LCS Total Organic Carbon Average	10.0		10.1	mg/L		101	(80%-120%)		08/12/22 13:46
QC1205161427 MB Total Organic Carbon Average			U ND	mg/L					08/12/22 13:37
QC1205161434 588993001 PS Total Organic Carbon Average	10.0	4.80	15.4	mg/L		106	(65%-120%)		08/13/22 15:35
Batch 2302324 ——									***
QC1205162705 588993002 DUP Dissolved Organic Carbon Average		23.7	23.2	mg/L	2.11 ^		(+/-5.00)	RM3	08/13/22 16:15
QC1205162704 LCS Dissolved Organic Carbon Average	10.0		10.0	mg/L		100	(80%-120%)		08/12/22 23:53
QC1205162703 MB Dissolved Organic Carbon Average			U ND	mg/L					08/12/22 23:34
QC1205162708 588993002 PS Dissolved Organic Carbon Average	10.0	4.74	14.5	mg/L		97.5	(65%-120%)		08/13/22 16:34
Spectrometric Analysis Batch 2301825									
QC1205161768 LCS Total Sulfide	0.400		0.394	mg/L		98.5	(85%-115%)	VH1	08/15/22 11:31

Page 9 of 17 SDG: 588993

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# **QC** Summary

Workorder: 588993 Page 2 of 3 Anlst Date Time Parmname NOM Sample Qual QC Units RPD% REC% Range Spectrometric Analysis 2301825 Batch QC1205161767 MB U ND Total Sulfide mg/L VH1 08/15/22 11:31 QC1205161769 588968001 PS Total Sulfide 0.400 U ND 0.398 99.5 (75% - 125%)08/15/22 11:31 mg/L QC1205161770 588968001 PSD Total Sulfide 0.400 U ND 0.394 98.5 08/15/22 11:31 mg/L 1.08 (0%-15%)Titration and Ion Analysis 2300028 Batch QC1205161475 587990001 DUP Alkalinity, Total as CaCO3 115 114 mg/L 0.524 (0%-20%)HH2 08/10/22 13:41 QC1205158376 LCS 103 100 103 08/10/22 13:38 Alkalinity, Total as CaCO3 mg/L (90%-110%) QC1205161476 587990001 MS 100 115 99.2 08/10/22 13:43 Alkalinity, Total as CaCO3 214 mg/L (80%-120%)

#### Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

Page 10 of 17 SDG: 588993

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# **QC** Summary

Workorder: 588993

Parmname

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

R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance
	purposes.

- 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
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.  $^{\circ}$  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 11 of 17 SDG: 588993

## General Chemistry Technical Case Narrative Santee Cooper SDG #: 588993

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

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

Analytical Batch: 2301646

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

GEL Sample ID#	Client Sample Identification
588993001	AF41640
588993003	AF41635
588993005	AF41636
1205161427	Method Blank (MB)
1205161428	Laboratory Control Sample (LCS)
1205161433	588993001(AF41640) Sample Duplicate (DUP)
1205161434	588993001(AF41640) Post Spike (PS)

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

#### **Data Summary:**

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

#### **Technical Information**

#### **Sample Dilutions**

The following samples 1205161433 (AF41640DUP), 1205161434 (AF41640PS) and 588993001 (AF41640) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

audert	588993
Analyte	001
Total Organic Carbon Average	5X

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

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

Analytical Batch: 2302324

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

GEL Sample ID# Client Sample Identification

588993002 AF41640 588993004 AF41635

Page 12 of 17 SDG: 588993

588993006 AF41636	
1205161418 Filtration Blank (FLTB)	
1205162703 Method Blank (MB)	
1205162704 Laboratory Control Sample (LCS)	
1205162705 588993002(AF41640) Sample Duplicate (	DUP)
1205162708 588993002(AF41640) Post Spike (PS)	

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

#### **Data Summary:**

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

#### **Technical Information**

#### Sample Dilutions

The following samples 1205162705 (AF41640DUP), 1205162708 (AF41640PS) and 588993002 (AF41640) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

i . i . i .	588993
Analyte	002
Dissolved Organic Carbon Average	5X

**Product:** Sulfide, Total

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

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

Analytical Batch: 2301825

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

GEL Sample ID#	Client Sample Identification
588993001	AF41640
588993003	AF41635
588993005	AF41636
1205161767	Method Blank (MB)
1205161768	Laboratory Control Sample (LCS)
1205161769	588968001(NonSDG) Post Spike (PS)
1205161770	588968001(NonSDG) Post Spike Duplicate (PSD)

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

#### **Data Summary:**

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

**Product:** Alkalinity

Analytical Method: SM 2320B

Page 13 of 17 SDG: 588993

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

**Analytical Batch:** 2300028

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

GEL Sample ID#	Client Sample Identification
588993001	AF41640
588993003	AF41635
588993005	AF41636
1205158376	Laboratory Control Sample (LCS)
1205161475	587990001(NonSDG) Sample Duplicate (DUP)
1205161476	587990001(NonSDG) 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 17 SDG: 588993



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

Custom	er Email	/Repo	ort Recipi	ent:	Date R	esults Ne	eded b	у:		Pi	oject/	Task/	Unit #:		Rerun requ	est for a	ny fl	agged	d QC
LCW	ILLIA		@santeed	cooper.com	/	/			125	915	1 02	102.0	9.60.1	1 365	500 Ye	s No	vs i		
									1							A PAR		is Grou	un
Labworl	ks ID #	Sam	ple Locatio	on/	Page 15			17.1				e inc		Com	nments		T	T	<u></u>
(Internal	l use	Desc	ription		Collection Date	Collection Time	ector	Total # of containers	Bottle type: (Glass-G/Plastic-P)		Matrix(see below)	e (see	1 TO SERVICE TO THE LOCAL PROPERTY OF THE PARTY OF THE PA	hod# orting lin		2	() (i)	U	
					ction	ction	Sample Collector	of con	type:	Grab (G) or Composite (C)	x(see	Preservative (see	Mise	c. sample	info	#-LKA-LINJTY	SULFIDE	10c/pac	
					Colle	Colle	Ѕатр	Total #	Bottle G/Plas	Grab (C	Matri	Preserv	• Any	other no	tes	\$	SUL	10	
	Para Tempera	la u	PET SHEAR AND A		1.		DEW	4	6 1 1	G		3/1		6 5 5 5 6				2	
AF416	540	WLF	A2-6		8/8/22	1325	BB	T	P	G	GW	5/1	ALKALIN		CARB	4	1	-	
	35	WLF	-A1-2			1425		1							CAUCE			1	
_[	36	WLF	-A1-3		1	1527	1	1		1		1	SULFID	E - 5	SHORT HOLD				
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							AT A SHEET												
																viole de la constitución de la c			
	000000000000000000000000000000000000000	an Texa					-		L					Sampl	le Receiving (Inter	nal Use C	n/v)	-	
	uished by:		imployee#	Date	Time	Receiv	ed by:		mployee		Date		Time	TEMI	P (°C):	_ Initi	al:		_
Relinqu	uished by:		5594 Employee#	8/9/22 Date	935 Time	Receiv	ed by:		mployee		5/9/2 Date		735 Time	Corre	ect pH: Yes	No			
n.	n	1-24-1536	681	8.9.2	11		Epia	-	E	Ç	19/2	2	5:50	Presei	rvative Lot#:				
Relinqu	uished by:	E	mployee#	Date	Time	Receive	ed by:	•	nployee	#	Date		Time						
	102210200		Bentastone	3 1,132,370 2,70					S : 6 V = 1			DEALERS AS	NEW TRANSPORTED	Date/	Time/Init for pres	ervative			
		TAL	S (all)		ients	BAIG	•		6		No.								
□ Ag	□ Cu		□Sb	D TO	Maria Caraca Maria Caraca Maria	MIS  □ BTEX	<u></u>	n	Wallbo	psun			Coal Ultimate		Flyash  Ammonia	na.	o ans O	<u>l]</u> il Qual	L
□ AI □ As	☐ Fe		□ Se	DOC		☐ Napthale ☐ THM/HA				sum(a	11		☐ % Moist	ure	□ LOI	0	%Moi		
□B	□ Li		□ Sr	□ IP/	I.N	□ VOC			DAI	M			☐ Ash ☐ Sulfur		☐ % Carbon ☐ Mineral	0	Color Acidity		
□ Ba		1000	□Ti	DF		□ Oil & Gr □ E. Coli	ease		□ TO	C tal meta	ls		□BTUs		Analysis		Dielectri IFT	c Streng	gth
□Ве	□ Mı	Kara a		□ Cl □ NO2		☐ Total Col	iform		D Sol	uble M	etals		☐ Volatile ☐ CHN	Matter	☐ Sieve ☐ % Moisture	-		ed Gas	ses
□ Ca		31 27.45	□ V	□Br		☐ Dissolved				ity (Cal Moistur		0	ther Tests:		1 70 IVIOISHIP		sed O		
□ Cd	□ Na		□ Zn	□ NO3		☐ Dissolved☐ Rad 226	i Fe		□ Sul □ pH				XRF Scan HGI		NPDES		Metals (As Co	in oil LCr,Ni.	Pb
□Со	□ Ni		□Hg		while a	Rad 228			D Chl	orides		Di	Fineness		☐ Oil & Grease		Hg)	a South Miles	
□ Cr	□ Pb		□ CrVI			□ PCB			☐ Par Sulfur	ticle Siz	ze		Particulate Ma	tter	☐ As ☐ TSS		TX OFER		
		- Cineba									OR PER						-		

Cli	ent:			SD	OG/AR/COC/Work Order: 1 588193 / 588994
Re	ceived By: Tye				ate Received:
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Sus	pected Hazard Information	Yes	o <sub>N</sub>	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)S	hipped as a DOT Hazardous?		V	Haz	zard Class Shipped:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
	Did the client designate the samples are to be ived as radioactive?		V	СО	C notation or radioactive stickers on containers equal client designation.
	Did the RSO classify the samples as oactive?		V	Ma	eximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) l	Did the client designate samples are hazardous?		/	/	C notation or hazard labels on containers equal client designation.  O or E is yes, select Hazards below.
E) I	Did the RSO identify possible hazards?	· ·	V		PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	NA	%	
1	Shipping containers received intact and scaled?	L			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	L			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*	V			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?	V			Temperature Device Serial #: IR2-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		V		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)  Do liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No)
7	Do any samples require Volatile Analysis?			C	Doliquid 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?	/			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?	L			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			l	
13	COC form is properly signed in relinquished/received sections?	1			Circle Applicable: Not relinquished Other (describe)
	( ) I Heady).				

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 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
wasnington	C/60











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: 589568

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 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: 589568 GEL Work Order, 589568

## 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 23 SDG: 589568

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 Project: ABS Lab Analytical

Client Sample ID: AF41633
Sample ID: 589568001
Matrix: Ground Water
Collect Date: 09-AUG-22 10:28
Receive Date: 12-AUG-22

Client

Client ID: SOOP001

Analyst Comments

SOOP00119

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	ic Carbon "A	As Received"									
Total Organic Carbon Average	е	4.20	0.330	1.00	mg/L		1	RM3	08/17/22	0130 2304212	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfide "As Received"											
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132 2301825	2
Titration and Ion Analys	sis										
SM 2320B Total Alkalir	nity "As Rec	eived"									
Alkalinity, Total as CaCO3		4.20	1.45	4.00	mg/L			HH2	08/17/22	1349 2304322	3
Bicarbonate alkalinity (CaCO:	3)	4.20	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L						
The following Analytic	al Methods v	vere performe	d:								

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

Collector:

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 3 of 23 SDG: 589568

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

**Certificate of Analysis** 

Report Date: August 19, 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:

AF41633 589568002

Matrix: Collect Date: Ground Water 09-AUG-22 10:28

Receive Date: Collector:

12-AUG-22 Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average

0.330

1.00

mg/L

Project:

Client ID:

RM3 08/17/22 0442 2304219

SOOP00119

SOOP001

The following Analytical Methods were performed:

Method Description

Analyst Comments

SM 5310 B

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 23 SDG: 589568

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: AF41637
Sample ID: 589568003
Matrix: Ground Water
Collect Date: 09-AUG-22 13:59
Receive Date: 12-AUG-22

12-AUG-22 Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organ	nic Carbon "A	As Received"										
Total Organic Carbon Averag	;e	11.7	0.330	1.00	mg/L		1	RM3	08/17/22	0229	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfic	de "As Recei	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analy	sis											
SM 2320B Total Alkali	nity "As Rec	eived"										
Alkalinity, Total as CaCO3		122	1.45	4.00	mg/L			HH2	08/17/22	1351	2304322	3
Bicarbonate alkalinity (CaCO	3)	122	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	) U	ND	1.45	4.00	mg/L							
The following Analytic	al Methods v	were performed:										
Method	Description	ì			2	Analys	st Co	mment	s			

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

Collector:

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 5 of 23 SDG: 589568

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

**Certificate of Analysis** 

Report Date: August 19, 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: AF41637

Sample ID: Matrix:

589568004 Ground Water 09-AUG-22 13:59

Collect Date: Receive Date:

12-AUG-22

Collector:

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Carbon Analysis									
SM 5310 B Dissolv	ed Organic Carb	on "As Received"							
Dissolved Organic Carb	on Average	12.1	0.330	1.00	mg/L		1 RM3 08/17/2	2 0542 2304219	1

Analyst Comments

Project:

Client ID:

SOOP00119

SOOP001

The following Analytical Methods were performed:

Method Description

SM 5310 B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 6 of 23 SDG: 589568

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**Certificate of Analysis** 

Project:

Client ID:

Report Date: August 19, 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: AF41638 Sample ID: 589568005 Matrix: Ground Water Collect Date: 09-AUG-22 14:04 Receive Date:

12-AUG-22

Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	nic Carbon "A	As Received"									
Total Organic Carbon Averag		11.8	0.330	1.00	mg/L		1	RM3	08/17/22	0248 2304212	. 1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfi	de "As Recei	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132 2301825	5 2
Titration and Ion Analy	sis										
SM 2320B Total Alkali	inity "As Rec	eived"									
Alkalinity, Total as CaCO3		127	1.45	4.00	mg/L			HH2	08/17/22	1353 2304322	2 3
Bicarbonate alkalinity (CaCC	)3)	127	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3	) U	ND	1.45	4.00	mg/L						
The following Analytic	cal Methods v	were performed:									
Method	Description	1		Analyst Comments							

#### **Notes:**

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

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 7 of 23 SDG: 589568

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**Certificate of Analysis** 

Report Date: August 19, 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:

AF41638 589568006

Matrix: Collect Date: Ground Water 09-AUG-22 14:04 12-AUG-22

Receive Date: Collector:

Client

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

Carbon Analysis

SM 5310 B Dissolved Organic Carbon "As Received"

Dissolved Organic Carbon Average

0.330

1.00

mg/L

Project:

Client ID:

Analyst Comments

SOOP00119

SOOP001

RM3 08/17/22 0602 2304219

The following Analytical Methods were performed:

Method Description

SM 5310 B

#### **Notes:**

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 8 of 23 SDG: 589568

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**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: AF41639
Sample ID: 589568007
Matrix: Ground Water
Collect Date: 09-AUG-22 11:38
Receive Date: 12-AUG-22

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	ic Carbon "A	As Received"										
Total Organic Carbon Average		9.64	0.330	1.00	mg/L		1	RM3	08/17/22	0308	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	e "As Receiv	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysi	is											
SM 2320B Total Alkalin	ity "As Rec	eived"										
Alkalinity, Total as CaCO3		216	1.45	4.00	mg/L			HH2	08/17/22	1355	2304322	3
Bicarbonate alkalinity (CaCO3	)	216	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	al Methods v	vere performed:										
Method Description					- A	Analy	st Co	mmeni	· c			

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

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 9 of 23 SDG: 589568

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: AF41639
Sample ID: 589568008
Matrix: Ground Water
Collect Date: 09-AUG-22 11:38
Receive Date: 12-AUG-22

Receive Date: 12-AU Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	rst Date	Time Batch	Method
Carbon Analysis											3.
SM 5310 B Disso	lved Organic Carbo	on "As Received"									
Dissolved Organic Car	rbon Average	9.85	0.330	1.00	mg/L		1	RM3	08/17/22	0622 230421	9 1
The following Ar	nalytical Methods v	vere performed:									
Method	Description				9	Analy	et Co	mmant	c		

Method Description Analyst Comments

SM 5310 B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 10 of 23 SDG: 589568

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 Project: ABS Lab Analytical

Client Sample ID: AF41634
Sample ID: 589568009
Matrix: Ground Water
Collect Date: 09-AUG-22 12:51
Receive Date: 12-AUG-22

Client

Project: SOOP00119 Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Carbon Analysis											
SM 5310 B Total Organ	nic Carbon "A	As Received"									
Total Organic Carbon Average	e	11.7	0.330	1.00	mg/L		1	RM3	08/17/22	0328 2304212	1
Spectrometric Analysis											
SM 4500-S(2-) D Sulfid	le "As Recei	ved"									
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132 2301825	2
Titration and Ion Analys	sis										
SM 2320B Total Alkalii	nity "As Rec	eived"									
Alkalinity, Total as CaCO3		278	1.45	4.00	mg/L			HH2	08/17/22	1400 2304322	3
Bicarbonate alkalinity (CaCO:	3)	278	1.45	4.00	mg/L						
Carbonate alkalinity (CaCO3)	Ü	ND	1.45	4.00	mg/L						
The following Analytic	al Methods v	were performed:									
Method	Description	· · · · · · · · · · · · · · · · · · ·			742	Analy	et Cor	mment	c		

Method Description

1 SM 5310 B

2 SM 4500-S (2-) D

3 SM 2320B

Collector:

### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 11 of 23 SDG: 589568

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: AF41634
Sample ID: 589568010
Matrix: Ground Water
Collect Date: 09-AUG-22 12:51

Receive Date: 12-AUG-22 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Carbon Analysis										
SM 5310 B Dissolv	ed Organic Carbo	on "As Received"								
Dissolved Organic Carb	on Average	12.0	0.330	1.00	mg/L		1 RM3	08/17/22	0641 2304219	1
The following Analytical Methods were performed:										

Method Description Analyst Comments

SM 5310 B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 12 of 23 SDG: 589568

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: AF41641
Sample ID: 589568011
Matrix: Ground Water
Collect Date: 09-AUG-22 14:55
Receive Date: 12-AUG-22

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organi	c Carbon "A	As Received"										
Total Organic Carbon Average		18.5	0.330	1.00	mg/L		1	RM3	08/17/22	0347	2304212	1
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide	"As Recei	ved"										
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	VH1	08/15/22	1132	2301825	2
Titration and Ion Analysi	.S											
SM 2320B Total Alkalin	ity "As Rec	eived"										
Alkalinity, Total as CaCO3		224	1.45	4.00	mg/L			HH2	08/17/22	1401	2304322	3
Bicarbonate alkalinity (CaCO3)	)	224	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
The following Analytica	l Methods v	vere performed:										
Method	Description	3			78	Analy	et Co	mment	-c			

 Method
 Description

 1
 SM 5310 B

 2
 SM 4500-S (2-) D

 3
 SM 2320B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 13 of 23 SDG: 589568

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: AF41641
Sample ID: 589568012
Matrix: Ground Water
Collect Date: 09-AUG-22 14:55
Receive Date: 12-AUG-22

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Carbon Analysis												
SM 5310 B Dissol	lved Organic Carbo	on "As Received"										
Dissolved Organic Car	bon Average	19.0	0.330	1.00	mg/L		1	RM3	08/17/22	0701	2304219	1
The following An	nalytical Methods v	vere performed:										
Method Description					98	Analy	et Cor	nment	·e			

Method Description Analyst Comments

SM 5310 B

#### Notes:

Column headers are defined as follows:

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

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 14 of 23 SDG: 589568

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

**QC** Summary

Report Date: August 19, 2022

Page 1 of 3

Santee Cooper P.O. Box 2946101

OCO3

**Moncks Corner, South Carolina** 

Contact:

Ms. Jeanette Gilmetti

Workorder: 589568

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range A	nlst	Date Time
Carbon Analysis Batch 2304212										
QC1205166335 589568001 DUP Total Organic Carbon Average		4.20		4.17	mg/L	0.86 ^		(+/-1.00)	RM3	08/17/22 01:50
QC1205166330 LCS Total Organic Carbon Average	10.0			10.0	mg/L		100	(80%-120%)		08/16/22 19:01
QC1205166329 MB Total Organic Carbon Average			U	ND	mg/L					08/16/22 18:51
QC1205166336 589568001 PS Total Organic Carbon Average	10.0	4.20		13.8	mg/L		95.8	(65%-120%)		08/17/22 02:09
Batch 2304219 ——										W <u>-</u>
QC1205166604 589568002 DUP Dissolved Organic Carbon Average		4.34		4.25	mg/L	2.05 ^		(+/-1.00)	RM3	08/17/22 05:02
QC1205166602 LCS Dissolved Organic Carbon Average	10.0			10.3	mg/L		103	(80%-120%)		08/16/22 18:41
QC1205166601 MB Dissolved Organic Carbon Average			U	ND	mg/L					08/16/22 18:32
QC1205166607 589568002 PS Dissolved Organic Carbon Average	10.0	4.34		14.7	mg/L		103	(65%-120%)		08/17/22 05:22
Spectrometric Analysis Batch 2301825										
QC1205161768 LCS Total Sulfide	0.400			0.394	mg/L		98.5	(85%-115%)	VH1	08/15/22 11:31

Page 15 of 23 SDG: 589568

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# **QC Summary**

		<del>~~~</del>		-7_						
Workorder: 589568							**************************************	3 000 <b>5</b> 000		e 2 of 3
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis Batch 2301825										
QC1205161767 MB Total Sulfide		Ü	ND	mg/L				VH1	08/15/2	2 11:31
QC1205161769 588968001 PS Total Sulfide	0.400 U	ND	0.398	mg/L		99.5	(75%-125%)	ĺ	08/15/2	22 11:31
QC1205161770 588968001 PSD Total Sulfide	0.400 U	ND	0.394	mg/L	1.08	98.5	(0%-15%)	i	08/15/2	22 11:31
Titration and Ion Analysis Batch 2304322 ———										
QC1205166518 589535002 DUP Alkalinity, Total as CaCO3		45.0	44.8	mg/L	0.445		(0%-20%)	НН2	08/17/2	22 13:41
Carbonate alkalinity (CaCO3)	U	ND U	ND	mg/L	N/A					
QC1205166517 LCS Alkalinity, Total as CaCO3	100		108	mg/L		108	(90%-110%)	Í	08/17/2	22 13:14
QC1205166519 589535002 MS Alkalinity, Total as CaCO3	100	45.0	147	mg/L		102	(80%-120%)	į	08/17/2	22 13:44

#### Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

Page 16 of 23 SDG: 589568

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# **QC Summary**

589568 Page 3 of 3 Sample Qual Parmname NOM OC Units RPD% REC% Range Anlst Date Time

- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected

Workorder:

- 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
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for е reporting purposes
- Preparation or preservation holding time was exceeded h

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 17 of 23 SDG: 589568

### General Chemistry Technical Case Narrative Santee Cooper SDG #: 589568

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

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

**Analytical Batch:** 2304212

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

GEL Sample ID#	Client Sample Identification
589568001	AF41633
589568003	AF41637
589568005	AF41638
589568007	AF41639
589568009	AF41634
589568011	AF41641
1205166329	Method Blank (MB)
1205166330	Laboratory Control Sample (LCS)
1205166335	589568001(AF41633) Sample Duplicate (DUP)
1205166336	589568001(AF41633) Post Spike (PS)

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

#### **Data Summary:**

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

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

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

**Analytical Batch:** 2304219

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

GEL Sample ID#	Client Sample Identification
589568002	AF41633
589568004	AF41637
589568006	AF41638
589568008	AF41639
589568010	AF41634
589568012	AF41641
1205166601	Method Blank (MB)
1205166602	Laboratory Control Sample (LCS)
1205166604	589568002(AF41633) Sample Duplicate (DUP)
1205166607	589568002(AF41633) Post Spike (PS)

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

Page 18 of 23 SDG: 589568

#### **Data Summary:**

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

**Product:** Sulfide, Total

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

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

**Analytical Batch:** 2301825

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

GEL Sample ID#	Client Sample Identification
589568001	AF41633
589568003	AF41637
589568005	AF41638
589568007	AF41639
589568009	AF41634
589568011	AF41641
1205161767	Method Blank (MB)
1205161768	Laboratory Control Sample (LCS)
1205161769	588968001(NonSDG) Post Spike (PS)
1205161770	588968001(NonSDG) Post Spike Duplicate (PSD)

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

#### **Data Summary:**

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

**Product:** Alkalinity

**Analytical Method:** SM 2320B

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

Analytical Batch: 2304322

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

<b>GEL Sample ID#</b>	Client Sample Identification
589568001	AF41633
589568003	AF41637
589568005	AF41638
589568007	AF41639
589568009	AF41634
589568011	AF41641
1205166517	Laboratory Control Sample (LCS)
1205166518	589535002(NonSDG) Sample Duplicate (DUP)
1205166519	589535002(NonSDG) Matrix Spike (MS)

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

Page 19 of 23 SDG: 589568

## **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 20 of 23 SDG: 589568



# **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 R	Project/Task/Unit #:					Rerun request for any flagged QC							
LCWILLIA	@santeecod	per.com					125915 / TM02.09. @01.1/ 365					Yes (	No			
															nalysis	Group
Labworks ID # (Internal use only)	Sample Location, Description		Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Misc	Comn nod # orting limi . sample i other note	t nfo	204/201	AUKALINITY TOTAL, BICARB, CARB	SuctoE
AF41633	WBW-AI-I	a .	8/9/22	8/9/22 1028 DEN 4			GP	G	GW	41,				2	1	ι
37	WLF-41-4		1	1359	1	15	I	I	1		ALKALIN	TY = 101	AL, BICARB	1		1
38	WLF-A1-4		1404								+ CA					
39	WLF-AI-5										A 011		Curar	$\perp$		
				1138							* >40	RT HOL	D ON SULFIDE			
34	WLF-AI-I			1251												
÷ 41	WAP-7		<u> </u>	1455	1	1	7	-1	7	7				7	1	
		100														
											g					
															A	
											WII					
							So So				Sample	Receiving (Internal L	Jse Or	ly)		
Relinquished by	1	8-12-21	7965	Receiv	red by:		Employee # Date Time				(°C):					
Relinquished by	The state of the s	Date	Time	Réceiv	ed by:	E	Employee # Date Time			Time	Correc	et pH: Yes No				
00	181	0122	1677	1	+		bec	7	Shal	7.7	1627	Preser	vative Lot#:			
Refinquished by	: Employee#	8-1283 Date	Time	Receiv	ed by:		mployee		Date		Time					
											п	Date/T	ime/Init for preserva	ative:		
□ Ag □ C		□ TO		MI:			Gypsum Coal  Wallboard Ultimate					Flyash  Ammonia			l Qual.	
□ As □ K	C □ Sn	□ DO □ TP/	TPO4	☐ Napthale ☐ THM/H. ☐ VOC			belo		"		☐ % Moist ☐ Ash	ure	□ LOI □ % Carbon	00	Mois olor	
		□ NH □ F	3-N	□ Oil & G	rease		□ A				□ Sulfur □ BTUs		☐ Mineral Analysis	DD		c Strength
□ Ba □ N		□ CI		☐ E. Coli ☐ Total Co	oliform			tal metal			□ Volatile	Matter	☐ Sieve	01		ed Gases
□ Be □ N □ Ca □ N		□ NO □ Br	2	□ pH □ Dissolve	ed As		□ Pu	rity (Ca Moistu	(SO4)	0	CHN ther Tests:		□ % Moisture	□ Us	ed Oi lashpo	
		□NO		☐ Dissolve	ed Fe		□ Su	lfites		0	XRF Scan HGI		NPDES	DI	1etals	
	The state of the s	□ SO <sub>4</sub>		☐ Rad 228				lorides		D	Fineness		□ Oil & Grease □ As	1	lg)	,,
		BA		□ PCB		- 19	☐ Pa ☐ Sulfur	rticle S	ize	0	Particulate Ma	itter	□ TSS		FER	
			- 1 H-2 - 1000	(I Sultur												

GEL	Laboratories LLC
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SAMPLE RECEIPT & REVIEW FORM

[ai: 4 / 4]				SAMPLE RECEIPT & REVIEW FORM							
Client: 300P		_	SDG/AR/COC/Work Order: 589568 / 9570								
Received By:			Date	e Received: The Circle Applicable:							
Carrier and Tracking Number				FedEx Express FedEx Ground UPS Field Services Courier Other							
Suspected Hazard Information	Yes	No	*If N	let Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.							
A)Shipped as a DOT Hazardous?		×	Haza	rd Class Shipped: UN#:  If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No							
B) Did the client designate the samples are to be received as radioactive?		X	coc	COC notation or radioactive stickers on containers equal client designation.							
C) Did the RSO classify the samples as radioactive?		X	Maxi	mum 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		notation or hazard labels on containers equal client designation.							
E) Did the RSO identify possible hazards?		X	шъ	or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:							
Sample Receipt Criteria	Yes	NA	°Z	Comments/Qualifiers (Required for Non-Conforming Items)							
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?	Y			Circle Applicable: Client contacted and provided COC COC created upon receipt							
3 Samples requiring cold preservation 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?	X			Temperature Device Serial #: 162 2 - 24 Secondary Temperature Device Serial # (If Applicable):							
5 Sample containers intact and sealed?	×			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)							
6 Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected:  If Preservation added, Lot#:							
				If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer)  Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)							
7 Do any samples require Volatile Analysis?			X	Are liquid VOA vials free of headspace? Yes No NA							
1 Miles (Marie			$\sim$	Sample ID's and containers affected:  ID's and tests affected:							
8 Samples received within holding time?	X										
9 Sample ID's on COC match ID's on bottles?	×	B		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)							
Number of containers received match number indicated on COC?	<		ľ	Circle Applicable: No container count on COC Other (describe)							
Are sample containers identifiable as GEL provided by use of GEL labels?	X										
COC form is properly signed in relinquished/received sections?	×			Circle Applicable: Not relinquished Other (describe)							
Comments (Use Continuation Form if needed):	l	errinds.	•								
				MIU Ohella							
PM (or PM.	A) re	view:	Initia	ls Date Date Page of							

GL-CHL-SR-001 Rev 7

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





# **Laboratory Services**

# **Laboratory Report**

Client Santee Cooper

Linda Williams 1 Riverwood Dr.

Moncks Corner, SC 29461

Project: Work Order:

Received:

Ground Water 22H0795

08/12/2022 09:20

#### 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 12, 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:** 22H0795

**Received:** 08/12/2022 09:20

Sample Number	Sample Description	Matrix	Sampled	Type
22H0795-01	AF39101 Pen Creek 1	Surface Water	07/12/22 09:45	Grab
22H0795-02	AF39102 Low Turk	Surface Water	07/12/22 10:24	Grab
22H0795-03	AF39103 Mid Turk	Surface Water	07/12/22 10:31	Grab
22H0795-04	AF39104 Up Turk	Surface Water	07/12/22 10:45	Grab
22H0795-05	AF39105 Pen Creek 2	Surface Water	07/12/22 11:30	Grab
22H0795-06	AF40205 STI-2	Ground Water	08/03/22 11:25	Grab
22H0795-07	AF40207 STI-4A	Ground Water	08/03/22 12:29	Grab
22H0795-08	AF40208 STI-5	Ground Water	08/03/22 13:28	Grab
22H0795-09	AF40206 STI-3	Ground Water	08/03/22 14:22	Grab
22H0795-10	AF40204 STI-1	Ground Water	08/03/22 15:24	Grab
22H0795-11	AF41630 WLF-A2-1	Ground Water	08/08/22 10:54	Grab
22H0795-12	AF41631 WLF-A2-1 DUP	Ground Water	08/08/22 10:59	Grab
22H0795-13	AF41632 WLF-A2-2	Ground Water	08/08/22 12:15	Grab
22H0795-14	AF41640 WLF-A2-6	Ground Water	08/08/22 13:25	Grab
22H0795-15	AF41635 WLF-A1-2	Ground Water	08/08/22 14:25	Grab
22H0795-16	AF41636 WLF-A1-3	Ground Water	08/08/22 15:27	Grab
22H0795-17	AF41633 WBW-A1-1	Ground Water	08/09/22 10:28	Grab
22H0795-18	AF41637 WLF-A1-4	Ground Water	08/09/22 13:59	Grab
22H0795-19	AF41638 WLF-A1-4 DUP	Ground Water	08/09/22 14:04	Grab
22H0795-20	AF41639 WLF-A1-5	Ground Water	08/09/22 11:38	Grab
22H0795-21	AF41634 WLF-A1-1	Ground Water	08/09/22 12:51	Grab
22H0795-22	AF41641 WAP-7	Ground Water	08/09/22 14:55	Grab



### **Case Narrative**

#### **Partial Report**

Please note this report does not include the following results - **AF39101**: As, Diss As **AF40204-08**: Cr, Se **AF41630-32**: Be, Co, Cr, Se



## Sample Data

Sample Number

22H0795-01

**Sample Description** 

AF39101 Pen Creek 1 collected on 07/12/22 09:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Lithium	38	10	ug/L	1.00	08/16/22 18:09	EPA 6010D	S1	CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:09	EPA 6010D		CAL	B2H1705	RC-G
Rebatch Sample Number: 22H0795-01RE	Ĺ									
Lithium	38	10	ug/L	1.00	09/01/22 12:12	EPA 6010D		KTH	B2H2214	RC-G

Sample Number

22H0795-02

Sample Description AF39102 Low Turk collected on 07/12/22 10:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:49	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 18:58	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:15	EPA 6020B		ЛР	B2H1696	RC-G

Sample Number

22H0795-03

Sample Description AF39103 Mid Turk collected on 07/12/22 10:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:54	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	12	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:53	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:20	EPA 6020B		ЛР	B2H1696	RC-G



Sample Number 22H0795-04

Sample Description AF39104 Up Turk collected on 07/12/22 10:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:59	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	11	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 19:56	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:25	EPA 6020B		JIP	B2H1696	RC-G

Sample Number 22H0795-05

Sample Description AF39105 Pen Creek 2 collected on 07/12/22 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:04	EPA 6020B		ЛР	B2H1696	RC-G
Lithium	43	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 20:37	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Arsenic, Dissolved	ND	0.005	mg/L	1.00	08/27/22 01:30	EPA 6020B		ЛР	B2H1696	RC-G

Sample Number 22H0795-06

Sample Description AF40205 STI-2 collected on 08/03/22 11:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:45	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/26/22 23:04	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.21	0.050	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 20:40	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:16	EPA 6020B		ЛР	B2H2227	RC-G



Sample Number 22H0795-07

Sample Description AF40207 STI-4A collected on 08/03/22 12:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:39	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	0.112	0.005	mg/L	1.00	08/26/22 23:17	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.27	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Iron	31	2.5	mg/L	50.0	08/16/22 21:07	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:21	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:19	EPA 6020B		ЛР	B2H2227	RC-G

Sample Number 22H0795-08

Sample Description AF40208 STI-5 collected on 08/03/22 13:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:48	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:23	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.034	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Iron	24	0.25	mg/L	5.00	08/16/22 21:18	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 21:25	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:22	EPA 6020B		ЛР	B2H2227	RC-G

Sample Number 22H0795-09

Sample Description AF40206 STI-3 collected on 08/03/22 14:22

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:51	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:28	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.020	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Iron	2.6	0.25	mg/L	5.00	08/16/22 21:58	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:05	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 13:52	EPA 6020B		JIP	B2H2227	RC-G

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Sample Number 22H0795-10

Sample Description AF40204 STI-1 collected on 08/03/22 15:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:54	EPA 7470A		EDM	B2H1781	RC-G
Arsenic	ND	0.005	mg/L	1.00	08/27/22 00:33	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.025	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.31	0.050	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:09	EPA 6010D		CAL	B2H1705	RC-G
Silver	ND	0.010	mg/L	1.00	08/31/22 14:25	EPA 6020B		ЛР	B2H2227	RC-G

Sample Number 22H0795-11

Sample Description AF41630 WLF-A2-1 collected on 08/08/22 10:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:57	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		ЛР	B2H1696	RC-G
Arsenic	0.109	0.005	mg/L	1.00	08/27/22 00:37	EPA 6020B		ЛР	B2H1696	RC-G
Barium	0.062	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Boron	1400	15	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Calcium	89	2.5	mg/L	50.0	08/16/22 22:36	EPA 6010D		CAL	B2H1705	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.7	0.050	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Lithium	37	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:37	EPA 6020B		ЛР	B2H1696	RC-G
Zine	ND	0.010	mg/L	1.00	08/16/22 22:50	EPA 6010D		CAL	B2H1705	RC-G



Sample Number 22H0795-12

Sample Description AF41631 WLF-A2-1 DUP collected on 08/08/22 10:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Mercury	ND	0.20	ug/L	1.00	08/17/22 10:05	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Arsenic	0.107	0.005	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.058	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Boron	1300	15	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Calcium	81	2.5	mg/L	50.0	08/16/22 22:39	EPA 6010D		CAL	B2H1705	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Iron	1.6	0.050	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Lithium	34	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:42	EPA 6020B		JIP	B2H1696	RC-G
Zine	ND	0.010	mg/L	1.00	08/16/22 22:53	EPA 6010D		CAL	B2H1705	RC-G

Sample Number

22H0795-13

Sample Description AF41632 WLF-A2-2 collected on 08/08/22 12:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Mercury	ND	0.20	ug/L	1.00	08/17/22 09:31	EPA 7470A		EDM	B2H1781	RC-G
Antimony	ND	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		ЛР	B2H1696	RC-G
Arsenic	0.289	0.005	mg/L	1.00	08/27/22 00:47	EPA 6020B		JIP	B2H1696	RC-G
Barium	0.068	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Boron	2100	15	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Cadmium	ND	0.004	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Calcium	150	2.5	mg/L	50.0	08/16/22 23:20	EPA 6010D		CAL	B2H1705	RC-G
Copper	ND	0.005	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Iron	4.2	0.050	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lead	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Lithium	140	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Molybdenum	ND	10	ug/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Nickel	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G
Thallium	ND	0.002	mg/L	1.00	08/27/22 00:47	EPA 6020B		ЛР	B2H1696	RC-G
Zine	ND	0.010	mg/L	1.00	08/16/22 23:34	EPA 6010D		CAL	B2H1705	RC-G



Sample Number 22H0795-14

Sample Description AF41640 WLF-A2-6 collected on 08/08/22 13:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	380	15	ug/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Calcium	130	2.5	mg/L	50.0	08/16/22 23:24	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.47	0.050	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	7.6	0.25	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.059	0.010	mg/L	1.00	08/16/22 23:37	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	5.2	0.10	mg/L	1.00	08/16/22 23:37	EPA 6010D		CAL	B2H1705	RC-G
Sodium	5.5	0.50	mg/L	5.00	08/16/22 23:30	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	0.47	0.050	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.060	0.020	mg/L	1.00	08/17/22 00:52	EPA 6010D	Z	CAL	B2H1705	RC-G

Sample Number 22H0795-15

Sample Description AF41635 WLF-A1-2 collected on 08/08/22 14:25

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	120	15	ug/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Calcium	33	2.5	mg/L	50.0	08/17/22 00:04	EPA 6010D		CAL	B2H1705	RC-G
Iron	3.4	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Magnesium	0.87	0.050	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.034	0.010	mg/L	1.00	08/17/22 00:18	EPA 6010D	Z	CAL	B2H1705	RC-G
Potassium	0.47	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.2	0.10	mg/L	1.00	08/17/22 00:18	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	3.6	0.050	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G
Manganese, Dissolved	0.037	0.020	mg/L	1.00	08/17/22 00:55	EPA 6010D	Z	CAL	B2H1705	RC-G



Sample Number 22H0795-16

Sample Description AF41636 WLF-A1-3 collected on 08/08/22 15:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	170	15	ug/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Calcium	18	0.25	mg/L	5.00	08/17/22 00:15	EPA 6010D		CAL	B2H1705	RC-G
Iron	0.48	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Magnesium	0.49	0.050	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Manganese	0.023	0.010	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Potassium	0.54	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Sodium	2.3	0.10	mg/L	1.00	08/17/22 00:21	EPA 6010D		CAL	B2H1705	RC-G
Dissolved Metals										
Iron, Dissolved	0.46	0.050	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G
Manganese, Dissolved	0.022	0.020	mg/L	1.00	08/17/22 00:59	EPA 6010D		CAL	B2H1705	RC-G

Sample Number 22H0795-17

Sample Description AF41633 WBW-A1-1 collected on 08/09/22 10:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
<b>Total Metals</b>										
Boron	56	15	ug/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Calcium	92	2.5	mg/L	50.0	08/17/22 17:21	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.9	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	3.4	0.050	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.048	0.010	mg/L	1.00	08/17/22 17:28	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	5.0	0.10	mg/L	1.00	08/17/22 17:28	EPA 6010D		KTH	B2H1706	RC-G
Sodium	14	0.50	mg/L	5.00	08/17/22 17:25	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	3.8	0.050	mg/L	1.00	08/17/22 19:37	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.049	0.020	mg/L	1.00	08/17/22 19:37	EPA 6010D	Z	KTH	B2H1706	RC-G



Santee Cooper Ground Water Project: 1 Riverwood Dr. Work Order: 22H0795 Moncks Corner, SC 29461 09/14/22 16:42 Reported:

22H0795-18 Sample Number

**Sample Description** AF41637 WLF-A1-4 collected on 08/09/22 13:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	270	15	ug/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Calcium	93	2.5	mg/L	50.0	08/17/22 17:58	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.7	0.050	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.089	0.010	mg/L	1.00	08/17/22 18:05	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.6	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:05	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	2.6	0.050	mg/L	1.00	08/17/22 19:48	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.089	0.020	mg/L	1.00	08/17/22 19:48	EPA 6010D	Z	KTH	B2H1706	RC-G

22H0795-19 Sample Number

**Sample Description** AF41638 WLF-A1-4 DUP collected on 08/09/22 14:04

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	260	15	ug/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Calcium	89	2.5	mg/L	50.0	08/17/22 18:15	EPA 6010D		KTH	B2H1706	RC-G
Iron	2.9	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	1.8	0.050	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese	0.096	0.010	mg/L	1.00	08/17/22 18:22	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	1.8	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Sodium	3.1	0.10	mg/L	1.00	08/17/22 18:22	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	2.8	0.050	mg/L	1.00	08/17/22 20:11	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	0.11	0.020	mg/L	1.00	08/17/22 20:11	EPA 6010D	Z	KTH	B2H1706	RC-G



Santee Cooper Ground Water Project: 1 Riverwood Dr. Work Order: 22H0795 Moncks Corner, SC 29461 09/14/22 16:42 Reported:

22H0795-20 Sample Number

**Sample Description** AF41639 WLF-A1-5 collected on 08/09/22 11:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	1800	15	ug/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Calcium	310	25	mg/L	500	08/17/22 18:39	EPA 6010D		KTH	B2H1706	RC-G
Iron	3.8	0.050	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Magnesium	30	2.5	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G
Manganese	1.1	0.010	mg/L	1.00	08/17/22 18:50	EPA 6010D	Z	KTH	B2H1706	RC-G
Potassium	8.7	0.10	mg/L	1.00	08/17/22 18:50	EPA 6010D		KTH	B2H1706	RC-G
Sodium	23	5.0	mg/L	50.0	08/17/22 18:43	EPA 6010D		KTH	B2H1706	RC-G
Dissolved Metals										
Iron, Dissolved	3.0	0.050	mg/L	1.00	08/17/22 20:22	EPA 6010D		KTH	B2H1706	RC-G
Manganese, Dissolved	1.1	0.020	mg/L	1.00	08/17/22 20:22	EPA 6010D	Z	KTH	B2H1706	RC-G

22H0795-21 Sample Number

**Sample Description** AF41634 WLF-A1-1 collected on 08/09/22 12:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	910	15	ug/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Calcium	390	25	mg/L	500	08/17/22 14:28	EPA 6010D		KTH	B2H1714	RC-G
Iron	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	9.2	0.25	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.93	0.010	mg/L	1.00	08/17/22 14:38	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	<b>5.</b> 7	0.10	mg/L	1.00	08/17/22 14:38	EPA 6010D		KTH	B2H1714	RC-G
Sodium	9.5	0.50	mg/L	5.00	08/17/22 14:35	EPA 6010D		KTH	B2H1714	RC-G
Dissolved Metals										
Iron, Dissolved	9.5	2.5	mg/L	50.0	08/17/22 18:56	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.96	0.020	mg/L	1.00	08/17/22 19:00	EPA 6010D	Z	KTH	B2H1714	RC-G



Sample Number 22H0795-22

Sample Description AF41641 WAP-7 collected on 08/09/22 14:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Total Metals										
Boron	4000	15	ug/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Calcium	690	25	mg/L	500	08/17/22 14:45	EPA 6010D		KTH	B2H1714	RC-G
Iron	0.19	0.050	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Magnesium	16	0.25	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Manganese	0.51	0.010	mg/L	1.00	08/17/22 14:55	EPA 6010D	Z	KTH	B2H1714	RC-G
Potassium	5.6	0.10	mg/L	1.00	08/17/22 14:55	EPA 6010D		KTH	B2H1714	RC-G
Sodium	15	0.50	mg/L	5.00	08/17/22 14:52	EPA 6010D		KTH	B2H1714	RC-G
Dissolved Metals										
Iron, Dissolved	0.29	0.050	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G
Manganese, Dissolved	0.51	0.020	mg/L	1.00	08/17/22 19:27	EPA 6010D	Z	KTH	B2H1714	RC-G



# Total Metals Quality Control Summary

		Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1696 - EPA 3005A	Mod										
Blank (B2H1696-BLK1)											
Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Thallium	ND	0.002	mg/L								RC-G
LCS (B2H1696-BS1)											
Antimony	0.323	0.005	mg/L	0.200		161	80-120			L	RC-G
Arsenic	0.211	0.005	mg/L	0.200		106	80-120				RC-G
Thallium	0.199	0.002	mg/L	0.200		100	80-120				RC-G
Matrix Spike (B2H1696-MS1)	Source: 22I	10795-06									
Antimony	0.367	0.005	mg/L	0.200	ND	183	75-125			Za	RC-G
Arsenic	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
Thallium	0.197	0.002	mg/L	0.200	ND	98	75-125				RC-G
Matrix Spike (B2H1696-MS2)	Source: 22I	10795-07									
Antimony	0.399	0.005	mg/L	0.200	ND	200	75-125			Za	RC-G
Arsenic	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
Thallium	0.184	0.002	mg/L	0.200	ND	92	75-125				RC-G
Matrix Spike Dup (B2H1696-MSD1)	Source: 22I	10795-06									
Antimony	0.361	0.005	mg/L	0.200	ND	180	75-125	2	20	Za	RC-G
Arsenic	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
Thallium	0.195	0.002	mg/L	0.200	ND	97	75-125	1	20		RC-G
Matrix Spike Dup (B2H1696-MSD2)	Source: 22I	10795-07									
Antimony	0.374	0.005	mg/L	0.200	ND	187	75-125	7	20	Za	RC-G
Arsenic	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
Thallium	0.174	0.002	mg/L	0.200	ND	87	75-125	5	20		RC-G
Batch B2H1705 - EPA 3005A											
Blank (B2H1705-BLK1)											
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
Calcium											

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# Total Metals Quality Control Summary

	]	Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
Blank (B2H1705-BLK1)											
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
Manganese	ND	0.010	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 (B2H1705-BS1)											
Barium	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Boron	500	15	ug/L	500		99	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	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	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	505	10	ug/L	500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G
Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		98	80-120				RC-G
Zinc	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Matrix Spike (B2H1705-MS1)	Source: 22H	10795-01									
Barium	0.57	0.010	mg/L	0.500	0.074	99	75-125				RC-G
Boron	1300	15	ug/L	500	780	101	75-125				RC-G
Cadmium	0.52	0.004	mg/L	0.500	ND	104	75-125				RC-G
Copper	0.58	0.005	mg/L	0.500	0.020	111	75-125				RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125				RC-G



# Total Metals Quality Control Summary

	]	Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
Matrix Spike (B2H1705-MS1)	Source: 22H	10795-01									
Manganese	0.86	0.010	mg/L	0.500	0.35	102	75-125				RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125				RC-G
Nickel	0.48	0.010	mg/L	0.500	0.014	93	75-125				RC-G
Zinc	0.47	0.010	mg/L	0.500	0.011	92	75-125				RC-G
Matrix Spike (B2H1705-MS2)	Source: 22H	10795-02									
Barium	0.57	0.010	mg/L	0.500	0.065	101	75-125				RC-G
Boron	3000	15	ug/L	500	2500	112	75-125				RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	102	75-125				RC-G
Copper	0.53	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125				RC-G
Lithium	590	10	ug/L	500	11	116	75-125				RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	103	75-125				RC-G
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	18	0.10	mg/L	5.00	11	124	75-125				RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Matrix Spike Dup (B2H1705-MSD1)	Source: 22H	10795-01									
Barium	0.58	0.010	mg/L	0.500	0.074	100	75-125	1	20		RC-G
Boron	1300	15	ug/L	500	780	103	75-125	1	20		RC-G
Cadmium	0.53	0.004	mg/L	0.500	ND	105	75-125	1	20		RC-G
Copper	0.59	0.005	mg/L	0.500	0.020	113	75-125	2	20		RC-G
Iron	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Lead	0.47	0.010	mg/L	0.500	ND	94	75-125	1	20		RC-G
Lithium	765	10	ug/L	500	38	145	75-125	1	20	S1	RC-G
Manganese	0.85	0.010	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G
Molybdenum	500	10	ug/L	500	ND	101	75-125	3	20		RC-G
Nickel	0.49	0.010	mg/L	0.500	0.014	95	75-125	1	20		RC-G
Zinc	0.48	0.010	mg/L	0.500	0.011	95	75-125	2	20		RC-G
Matrix Spike Dup (B2H1705-MSD2)	Source: 22H	H0795-02									
Barium	0.58	0.010	mg/L	0.500	0.065	102	75-125	0.6	20		RC-G
Boron	3100	15	ug/L	500	2500	121	75-125	2	20		RC-G



# Total Metals Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
Matrix Spike Dup (B2H1705-MSD2)	Source: 22I	10795-02									
Copper	0.53	0.005	mg/L	0.500	ND	106	75-125	0.4	20		RC-G
Iron	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Lithium	590	10	ug/L	500	11	116	75-125	0.03	20		RC-G
Manganese	0.75	0.010	mg/L	0.500	0.23	104	75-125	0.7	20		RC-C
Molybdenum	510	10	ug/L	500	ND	103	75-125	1	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.09	20		RC-G
Potassium	18	0.10	mg/L	5.00	11	131	75-125	2	20	S1	RC-G
Zinc	0.50	0.010	mg/L	0.500	ND	100	75-125	0.2	20		RC-G
Batch B2H1706 - EPA 3005A											
Blank (B2H1706-BLK1)											
Boron	ND	15	ug/L								RC-C
Calcium	ND	0.050	mg/L								RC-C
Iron	ND	0.050	mg/L								RC-C
Magnesium	ND	0.050	mg/L								RC-C
Manganese	ND	0.010	mg/L								RC-C
Potassium	ND	0.10	mg/L								RC-C
Sodium	ND	0.10	mg/L								RC-C
LCS (B2H1706-BS1)											
Boron	500	15	ug/L	500		99	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-C
Iron	0.51	0.050	mg/L	0.500		101	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		101	80-120				RC-C
Manganese	0.50	0.010	mg/L	0.500		100	80-120				RC-C
Potassium	5.6	0.10	mg/L	5.00		111	80-120				RC-C
Sodium	0.51	0.10	mg/L	0.500		103	80-120				RC-G
Matrix Spike (B2H1706-MS2)	Source: 22I	H0490-02RE	<b>E1</b>								
Potassium	9.0	0.10	mg/L	5.00	1.9	140	75-125			S1	RC-C



# Total Metals Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H1706 - EPA 3005A					<u> </u>						
Matrix Spike Dup (B2H1706-MSD2)	Source: 22I	H0490-02R1	E1								
Potassium	8.7	0.10	mg/L	5.00	1.9	135	75-125	3	20	S1	RC-G
Batch B2H1714 - EPA 3005A											
Blank (B2H1714-BLK1)											
Boron	ND	15	ug/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Manganese	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
LCS (B2H1714-BS1)											
Boron	500	15	ug/L	500		101	80-120				RC-G
Calcium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Iron	0.52	0.050	mg/L	0.500		103	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Manganese	0.51	0.010	mg/L	0.500		102	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		112	80-120				RC-G
Sodium	0.52	0.10	mg/L	0.500		104	80-120				RC-G
Batch B2H1781 - EPA 7470A											
Blank (B2H1781-BLK1)											
Mercury	ND	0.20	ug/L								RC-G
LCS (B2H1781-BS1)											
Mercury	5.0	0.20	ug/L	5.00		101	80-120				RC-G
Matrix Spike (B2H1781-MS1)	Source: 22I	H0795-13									
Mercury	4.8	0.20	ug/L	5.00	ND	95	75-125				RC-G



Santee Cooper Ground Water Project: 1 Riverwood Dr. Work Order: 22H0795 Moncks Corner, SC 29461 09/14/22 16:42 Reported:

# **Total Metals Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H1781 - EPA 7470A											
Matrix Spike Dup (B2H1781-MSD1)	Source: 22H	10795-13									
Mercury	4.7	0.20	ug/L	5.00	ND	94	75-125	1	20		RC-G
Batch B2H2214 - EPA 3005A											
Blank (B2H2214-BLK1)											
Lithium	ND	10	ug/L								RC-G
LCS (B2H2214-BS1)											
Lithium	497	10	ug/L	500		99	80-120				RC-G
Matrix Spike (B2H2214-MS1)	Source: 22H	I0795-01R	E1								
Lithium	712	10	ug/L	500	38	135	75-125			S1	RC-G
Matrix Spike (B2H2214-MS3)	Source: 22H	I1276-05R)	E1								
Lithium	654	10	ug/L	500	28	125	75-125			S1	RC-G
Matrix Spike Dup (B2H2214-MSD3)	Source: 22H	I1276-05R	E1								
Lithium	643	10	ug/L	500	28	123	75-125	2	20		RC-G
Batch B2H2227 - EPA 3005A M	Mod										
Blank (B2H2227-BLK1)											
Silver	ND	0.010	mg/L								RC-G
LCS (B2H2227-BS1)											
Silver	0.062	0.010	mg/L	0.0600		103	80-120				RC-G
Matrix Spike (B2H2227-MS1)	Source: 22H	10795-09									
Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125				RC-G
Matrix Spike Dup (B2H2227-MSD1)	Source: 22H	10795-09									
Silver	0.059	0.010	mg/L	0.0600	ND	98	75-125	0.1	20		RC-G



# Dissolved Metals **Quality Control Summary**

	Ī	Reporting		Spike	Source		%REC		RPD		
Parameter	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flags	Lab
Batch B2H1696 - EPA 3005A I	Mod										
Blank (B2H1696-BLK1)											
Arsenic, Dissolved	ND	0.005	mg/L								RC-G
LCS (B2H1696-BS1)											
Arsenic, Dissolved	0.211	0.005	mg/L	0.200		106	80-120				RC-G
Matrix Spike (B2H1696-MS1)	Source: 22I	10795-06									
Arsenic, Dissolved	0.228	0.005	mg/L	0.200	ND	114	75-125				RC-G
Matrix Spike (B2H1696-MS2)	Source: 22I	10795-07									
Arsenic, Dissolved	0.344	0.005	mg/L	0.200	0.112	116	75-125				RC-G
Matrix Spike Dup (B2H1696-MSD1)	Source: 22I	10795-06									
Arsenic, Dissolved	0.230	0.005	mg/L	0.200	ND	115	75-125	0.9	20		RC-G
Matrix Spike Dup (B2H1696-MSD2)	Source: 22I	10795-07									
Arsenic, Dissolved	0.330	0.005	mg/L	0.200	0.112	109	75-125	4	20		RC-G
Batch B2H1705 - EPA 3005A											
Blank (B2H1705-BLK1)											
Iron, Dissolved	ND	0.050	mg/L								RC-G
Manganese, Dissolved	ND	0.020	mg/L								RC-G
LCS (B2H1705-BS1)											
Iron, Dissolved	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Manganese, Dissolved	0.51	0.020	mg/L	0.500		102	80-120				RC-G
Matrix Spike (B2H1705-MS1)	Source: 22I	10795-01									
Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	97	75-125				RC-G
Manganese, Dissolved	0.86	0.020	mg/L	0.500	0.35	102	75-125				RC-G
Matrix Spike (B2H1705-MS2)	Source: 22I	10795-02									
Iron, Dissolved	3.0	0.050	mg/L	0.500	2.5	104	75-125				RC-G
Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	103	75-125				RC-G



# Dissolved Metals **Quality Control Summary**

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H1705 - EPA 3005A											
Matrix Spike Dup (B2H1705-MSD1)	Source: 22I	10795-01									
Iron, Dissolved	1.6	0.050	mg/L	0.500	1.1	96	75-125	0.2	20		RC-G
Manganese, Dissolved	0.85	0.020	mg/L	0.500	0.35	101	75-125	0.2	20		RC-G
Matrix Spike Dup (B2H1705-MSD2)	Source: 22I	10795-02									
Iron, Dissolved	3.1	0.050	mg/L	0.500	2.5	113	75-125	1	20		RC-G
Manganese, Dissolved	0.75	0.020	mg/L	0.500	0.23	104	75-125	0.7	20		RC-G



 Santee Cooper
 Project:
 Ground Water

 1 Riverwood Dr.
 Work Order:
 22H0795

 Moncks Corner, SC 29461
 Reported:
 09/14/22 16:42

#### Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst	
EPA 3005A ICP Digestion					
EPA 3005A	B2H1705	22H0795-01	08/15/2022 13:44	EDM	
EPA 3005A	B2H2214	22H0795-01RE1	08/28/2022 11:00	EDM	
EPA 3005A	B2H1705	22H0795-02	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-03	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-04	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-05	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-06	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-07	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-08	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-09	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-10	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-11	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-12	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-13	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-14	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-15	08/15/2022 13:44	EDM	
EPA 3005A	B2H1705	22H0795-16	08/15/2022 13:44	EDM	
EPA 3005A	B2H1706	22H0795-17	08/15/2022 13:49	EDM	
EPA 3005A	B2H1706	22H0795-18	08/15/2022 13:49	EDM	
EPA 3005A	B2H1706	22H0795-19	08/15/2022 13:49	EDM	
EPA 3005A	B2H1706	22H0795-20	08/15/2022 13:49	EDM	
EPA 3005A	B2H1714	22H0795-21	08/15/2022 15:02	EDM	
EPA 3005A	B2H1714	22H0795-22	08/15/2022 15:02	EDM	



Santee Cooper			Project:	Ground Wate	r
1 Riverwood Dr.			Work Order:	22H0795	
Moncks Corner, SC 29461			Reported:	09/14/22 16:	42
EPA 3005A ICPMS Digestion					
EPA 3005A Mod	B2H1696	22H0795-02	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-03	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-04	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-05	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-06	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-06	08/25/2022	16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-07	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-07	08/25/2022	16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-08	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-08	08/25/2022	16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-09	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-09	08/25/2022	16:00	EDM
EPA 3005A Mod	B2H1696	22H0795-10	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H2227	22H0795-10	08/25/2022	16:00	EDM
EPA 3005A Mod	B2H1696	22Н0795-11	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H1696	22Н0795-12	08/15/2022	11:21	EDM
EPA 3005A Mod	B2H1696	22H0795-13	08/15/2022	11:21	EDM
EPA 7470A Mercury Digestion					
EPA 7470A	B2H1781	22H0795-06	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22H0795-07	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22H0795-08	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22H0795-09	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22Н0795-10	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22H0795-11	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22H0795-12	08/16/2022	17:30	EDM
EPA 7470A	B2H1781	22H0795-13	08/16/2022	17:30	EDM



Santee Cooper Project: Ground Water

1 Riverwood Dr. Work Order: 22H0795

Moncks Corner, SC 29461 Reported: 09/14/22 16:42

#### **Data Qualifiers and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported

RPD Relative Percent Difference

L The analyte was not within control limits in the LCS.

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.

Z The Dissolved and Total results are not significantly different and given the nature of the analyses, should be considered equal.

Za The matrix spike and/or matrix spike duplicate was not within control limits - failed high. There are no detections in the sample.

#### Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105

RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

#### Chain of Custody



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

**Customer Email/Report Recipient:** Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LCWILLIA @santeecooper.com 125915 / JM02.09.601.1/ 36500 Yes No Analysis Group Labworks ID # Sample Location/ Comments (Internal use Collection Date Collection Time Matrix(see below Description Sample Collecto Method # Glas only) Total # of contain 5 Grab (G) or Composite (C) Preservative (below) SSOLVED Reporting limit Bottle type: {c G/Plastic-P) Ma Misc. sample info Any other notes AS, I ā 200.3 1/12/22 01 AF 39101 PEN CREEK! 0945 2 G 2 SW 1 AS 4020 RL& 5 PPB l 52 02 LOW TURK 1024 Mo 1 6010 RL < 10 PPB 03 03 MID TURK 1031 -04 04 UP TURK 1045 35 05 PEN CREEK 2 1130 Sample Receiving (Internal Use Only) Relinquished by: Employee# Date Time Received by: Employee # Date Time TEMP (°C): 23.9 Initial: WAG Barroun 35594 8/11/22 Florex 1500 Correct pH: Yes No Relinquished by: **Employee#** Date Time Received by: Employee # Date Time Preservative Lot#: megan Feder 8/12/22 0970 8/11/22 0920 Received by: Relinquished by: Employee# Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all ) **Nutrients** MISC. Gypsum Coal Flyash □ Ag □ Cu O Sb FOC O BTEX Wallboard Ultimate □ Al □ Fe □ Se Ammonia ☐ Napthalene Gypsum(all ☐ % Moisture LOI ☐ As OK □ Sn O THM/HAA below) ☐ Ash % Carbon □ VOC AIM OB D Li □ Sr □ Sulfur □ Oil & Grease Mineral TOC O BTUs □ Ba C E. Coli Analysis □ Mg □ Ti Total metals ☐ Volatile Matter ☐ Total Coliform Soluble Metals □ Be □ Mn O TI □pH O CHN D Purity (CaSO4) % Moisture ☐ Dissolved As □ Ca % Moisture Other Tests: □Мо OV ☐ Dissolved Fe D XRF Scan Sulfites **NPDES** □ Cd □ Na □ Zn □ Rad 226 O HOL □ pH ☐ Rad 228 Oil & Grease Chiorides Li Fineness □ Co □ Ni □ Hg □ PCB Aa D Particulate Matter Particle Size □ Cr □ Pb 198 □ CrVI Tracking: 8153 6791 4817

#### 22H0795

#### **Chain of Custody**

Santee cooper

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

	LCWI		/Report Recip	ient: cooper.com	Date F	Results N	eeded I	oy:	125°				Unit #: 08. ⊊Ø1.	34 36500	Rerun reques	t for an	y flagged O
	Labworks (Internal 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	Me     Re     Mi     An	Commethod # porting limit sc. sample in y other notes	fo	TOTAL METALS -SEE BELOW	nalysis Group
6	AF402	105	STI - 2		8/3/22	1125	DEN		p	G	GW	2	6020	60	-	X	
*				5 <del>11 - 131 - 11 - 11 - 11 - 11 - 11 - 11 </del>	-1-12	11000		<u> </u>	1.			100	AS	Bo			
7		07	STI- 4A			1229							Cr	Fe		1	
8		08	ST1-5			1328							se	Ni Pb			
9		06	CTI 2													111	
1	-	6	STI-3			1422				+-						++-	_
)	1	04	STI-1		7	1524		Ī	11		1	1	* PLEA	SE USE	SHEET	1	
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Г	Relinquis	shed by:	Employee#	Date	Time	Receiv	ed by:	E	mployee #		Date		Time	Sample R	leceiving (Internal	Use Only	1)
	89mou		35974	8/11/22	1500	Fede			his shirt had a		-		7.11.0	TEMP (	PC):	Initial:	
-	Relinquis		Employee#	Date	Time	Receiv		E	mployee #		Date		Time	Correct	pH: Yes No		
	Fed	PM		8/12/22	0920 -	11		0	7	- 8	112/27	, /	0970	Preserva	tive Lot#:		
	Relinquis		Employee#	Date	Time	Receiv	ed by	Er	mployee #		Date		Time				
														Date/Tim	ne/Init for preserva	ative:	
I			TALS (all )	Nutr	ients	MIS	c		Gyr	sum	200		Coal			875 S	A CONTRACTOR
	ZAg	□ Cu		I TO	AND DESCRIPTION OF REAL PROPERTY.	O BTEX	<u></u>		Wallboa	111111111111111111111111111111111111111		la (	<u>Coal</u>		Flyash Ammonia	fean	Oil Oil Qual
-	□ Al ✓ As	₽Fe □ K	☑ Se	T DOX		□ Napthale □ THM/H/			Gypsi	um(ali			□ % Moist	ture	LOI		
12	O B	D Li	□Sr	NE		□ voc			O AIN	1		No. of the last of	☐ Ash ☐ Sulfur		% Carbon Mineral		
	⊠ Ba	□ Mg		7 F	Section 1	□ Oil & Gr □ E. Coli			0.100 0.100			1	U BTUs		Analysis		
-	□ Be	□ Mn		1.80		☐ Total Co	liform		Solul B Purit				☐ Volatile ☐ CHN	Matter	. Sieve % Moisture		collect Cares LON
-	□ Ca	□ Mo	υV	Br NOS	A - 17	☐ Dissolved			E % M	oisture		Otl	her Tests: RF Scan				
	Cd	□ Na	□ Zn	11504		☐ Rad 226			□рН			OH	GI		NPDES Oil & Grease		
	□ Co	ℤ Ni	✓ Hg		The second second	□ Rad 228 □ PCB			Parti				ineness articulate Ma		) As		
	<b>ZCr</b>	/Pb	□ CrVI	len, a le		THE STATE OF THE S			Sulfur				7		2 TS\$	COF	L.M

#### **Chain of Custody**



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

LCWI		Report Recipi	ent: cooper.com		Results N	eeded b	y:	25	Pr 715	1976 1976		Jnit #:	1 / 3650	Rerun reques	No	
Labwork (Internal only)	STATE OF THE PARTY	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 below)	• N • R • N	Com Method # Reporting lim Misc. sample any other not	info	TOTAL METALS	nalysis Group
AF 416	30	WLF- A2-1		8/8/22	1054	DEN	1	P	G	Gw	2	601	0 6	020	×	
				1	1.50		,		1	1	1		Ji	AS Ø	1,	
-	31	WLF-A2-1	DUP	+	1059							-		Co Cr		
1	32	WLF-A2-2		1	1215	1	1	1	1	1	1			Sb	1-1	
												Cu Fe		Se Tl		
				_	-							Pb		11/24/		++
												Li				
												Mo	He	3-7471		
			112.400	-	-										+-	
												* PLE	EASE SE	E SHEET		
												FOR	RLS.			
					1										+ 1	
Relingu	ished by:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date		Time	Sample TEMP	Receiving (Internal	Use Only Initial:	
29mon	un	35594	8/11/22	1500	Fa	lex							The state of the s		7 1	
Relinqu	ished by:	Employee#	Date	Time		ed by:	E	mployee	•	Date		Time		t pH: Yes No		
Floo	tess		8/12/22	0970	Ma	- 20	3	7	8	slizh	2	0920	Preser	vative Lot#:		
Relinqu	ished by:	Employee#	Date	Time	Receiv	ed by:	E	mployee		Date		Time				
													Date/T	ime/Init for preserv	rative:	
		TALS (all)	Nut	rients	MI	sc.		Gv	psun	,		Co	al l	Flyash		Oil
□ Ag □ Al	☐ Cu ☐ Fe	≥ Sb	TO	)€	O BTEX			Wallbo	ard		01	Ultimate		Ammonia		s. Off Qual
As	O K	□ Sn		TPO4	☐ Napthale			Gyps	um(a)	<b>u</b>		E % Mo	isture	DLOI		
ØB	DLi	□Sr	DNI	EN	□ VOC □ Oil & Gr			E AI	VI.			☐ Ash ☐ Sulfur		☐ % Carbon ☐ Mineral		
Ba	□ Mg		□ F □ €1		□ E. Coli				il meta			□ BTUs	ile Matter	Analysis  D Sieve		
Be	O Mn	<b>≱</b> TI	DNC	<b>Z</b> akte	☐ Total Co ☐ pH				ible Me ty (Cas			□ CHN		□ % Moisture	tse	endend Guar I Oil
Ca	Ø Mo	ΟV	Br		☐ Dissolve				loisture		20 House	her Test (RF Scan	s:	MDDEC		
<b>ℤCd</b>	U Na	& Zn	100		☐ Rad 226 ☐ Rad 228			Opti			UF	IGI		NPDES  Oil & Grease		
Co	ℤ Ni	Hg	all hans		□ Rad 228			Chl	orides icle Siz	e		ineness articulate	Matter	C As		
ℤ Cr	Pb	☐ CrVI					TRASE	Sulfur			The second			GTSS	6,03	68

#### 25 / 22. Send report to Icwillia @santeecooper.com & sibrown@santeecooper.com

#### **Chain of Custody**



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

-	Customer Email/Report Recipient:  CWILLIA @santeecooper.com								Project/Task/Unit #: Rerun reque						st for any flagged QC  No  Analysis Group				
	Labworks (Internal u only)		E MAZA STA	ple Locatio ription	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	Commethod # porting limitsc. sample it	info	B, Cg, Fe, K, Na		oup
	AF 416	40	WLF	-A2-6		8/8/22	1325	DEW	2	P	G	GW	2	B, Ca,	Fe, It, N	1g, Na, 6010	1		
	- 4	35	IAH E	- A1-2		1	1425	1	1	1	1	,	1	Mn-6	020				
-	1										+						11		+
-	1	36	WLF	-A1-3		1 -	1527				+						+		+
1	HF 4163	33	WB	W-A1-	1	8/9/22	1028				4			* PLEA	SE MEE	ET YMITS	4		1
	1	37	WLE	-A -4			1359							on s	十三年丁。				
		38	WLF	- AI- 4	DUP		1404												
		39		F-A1-5			1138								V.				
				V1															1
_		34	WLF	=-A1-1			1251				-						+		+
		41	WA	P-7	- WI	T	1455	-	1	1	1	7	1				1	1	+
															p				
	Relinquis	hed by:		Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date	S ave	Time		Receiving (Internal (°C):	Use O		
4	Sargrou	n	3	5594	8/16/22	1500	FCO	apo								et pH: Yes No	14		
	Relinquis	hed by:		Employee#	Date	Time	Receiv	ed by:	E	mployee		Date		Time			0		
	Flo	ler	/		8/12/22	090	The		R	1		112/7	12	0920	Preser	vative Lot#:			
T	Relinquis	hed by:		Employee#	Date	Time	Receiv	ed by:	E	mployee	*	Date		Time	Date/T	ime/init for presen	ative:		
Т			PTAT	S (all)							Regional Control						uuve.	area.	
Total Section	□ Ag	T C		Sb Sb	The second second	rients	MI	<u>sc.</u>		A CONTRACTOR OF THE PARTY OF TH	psun			Coa		<u>Flyash</u>		Oil	
1	□Al	F		□ Se	TC		☐ BTEX ☐ Napthale	ene		Wallbe	sum(a.	u .		Ultimate ☐ % Moi	sture	☐ Ammonia ☐ LOI		ms. Oil Q Salicipan	
	□ As	PK		□ Sn	TE	TPO4	□ THM/H □ VOC			belo	47)			□ Ash	Kothics Windows E.S.	□ % Carbon			
	ØB	DL	i	□ Sr	The second secon	13-1	□ Oil & G	rease		E AL				☐ Sulfur ☐ BTUs		Mineral     Avelveis			
	□ Ba	MM	lg	□ Ti	I F		☐ E. Coli ☐ Total Co	liform		To	ol meta			☐ Volatil	e Matter	Analysis  Sieve			
	□Be	N	<b>I</b> n	□ T1	TO NO	12	□ pH	THE COLUMN			urle M ity (Cal			□ CHN		□ % Moisture	10.6	ed Oil	
	Ca	O M	-	OV	Be		☐ Dissolve			1194	Moistan		The State of the S	ther Tests XRF Scan		Who se			
	□ Cd	ZN	a	□ Zn	I SO		□ Rad 226			n Sul			וה	HGI		NPDES			
ш		ON		□Hg		Park I	☐ Rad 228 ☐ PCB		100		londes ticle Siz			Fineness Particulate M	Matter	□ Oil & Greese □ As			
ı	□ Co								The Contract of		PERSONAL PROPERTY AND ADDRESS.	AND DESCRIPTION OF	- U I	THE PERSON NAMED IN	THE STATE OF THE S	G TSS		OFER	

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		222
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	
Lithium	ug/L	40	5
Magnesium	ug/L		
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L		
Potassium	mg/L		
Selenium	ug/L	50	5
Sodium	mg/L		
Thallium	ug/L	2	1
Zinc	ug/L	5000	30-40-44



#### Sample Receipt Verification

Client: Sant		Date ceived:	8/1:	2/22			Work Order:	22H	10795		_	
Carrier Name:	Client	Other:			-	Tra	cking Nun	nber:				-
Receipt Crite	eria			Yes	No	NA		Ì	Com	ments		
Shipping conta	iner / cooler intact?			<b>\</b>			Damaged	Leakin	ıg 🗌	Other:		
Custody seals i	intact?					<b>✓</b>						
COC included	with samples?			~								
COC signed w	hen relinquished and rece	ived?		<b>\</b>								
Sample bottles	intact?			<b>'</b>			Damaged	Leakin	ıg 🗌	Other:		
Sample ID on	COC agree with label on	bottle(s)?		<b>\</b>								
Date / time on	COC agree with label on	bottle(s)?		<b>~</b>								
Number of bot	tles on COC agrees with	number of bottles rece	ived?	<b>\</b>								
Samples receiv	red within holding time?			<b>\</b>								
Sample volume	e sufficient for analysis?			<b>~</b>								
VOA vials free	e of headspace (<6mm bu	bble)?				<b>'</b>						
Samples coole	d? Temp at receipt reconding Temp measured with	ied on COC IR thermometer - SN: 9705	0067	\square			Ice 🗸	Cold Pack	s	Dry Ice	None	
	ring pH preservation at pr for metals analysis may be pres		b.	<b>/</b>								
	orinated for parameters reapple collection?	quiring chlorine remo	val at			<b>'</b>						
		If in-house pre	servation	used	l – rec	cord 1	Lot#					_
HCL			H <sub>3</sub> P	O <sub>4</sub>								
H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub>			Na( Oth									_
111103			Ou	101								_
Comments:												
Were non-cor	nformance issues noted	at sample receipt?	No									
	ance issue other than note											
												_

Completed by: KAB

Page 30 of 30

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
WLF-A1-5	37.64	16.02	23'-33'	8/9/2022	1138	35.89

Drawdown: 17.67 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)
1110	24.81	6.96	-97	1760	0	1.44
1115	24.14	6.92	-135	1800	0	0.68
1120	23.65	6.64	-130	1810	0	0.55
1125	24.2	6.52	-125	1810	0	0.53
1130	23.68	6.48	-125	1830	0	0.46
1135	23.63	6.47	-123	1830	0:	0.42
1138	23.64	6.46	-122	1830	0	0.41
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#### Comments/Conditions:

Samples were collected by Trey West and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)	a ,5		Depth
WLF-A1-4	28.24	7.81	12'-22'	8/9/2022	1359	22.51

Drawdown: 8.12 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)
1328	25.54	5.71	6	287	0	1.41
1333	23.9	5.69	-31	289	0	0.56
1338	23.54	5.91	-65	360	0	0.46
1343	23.46	6	-76	394	0	0.44
1348	23.32	6.07	-86	423	0	0.39
1353	23.6	6.11	-93	433	0	0.44
1356	23.43	6.13	-95	436	0	0.41
1359	23.41	6.15	-100	441	0	0.4
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#### Comments/Conditions:

DUP @ 1404

Samples were collected by Trey West and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

Cl, F, SO4, TDS

**CCR Only:** As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-3	28.31	8.19	10'-20'	8/8/2022	1527	22.76

Drawdown: 8.36 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)
1459	24.98	3.81	119	202	0	1.68
1504	24.83	4.12	37	185	0	0.69
1509	24.2	4.17	2	176	0	0.54
1514	24.08	4.18	-19	177	0	0.56
1519	23.77	4.23	-35	181	0	0.44
1524	24.33	4.32	-43	179	0	0.4
1527	23.69	4.24	-39	182	0:	0.44
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Comments/Conditions:

Samples were collected by Trey West and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-2	29.21	8.1	10'-20'	8/8/2022	1425	24.62

Drawdown: 8.26 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)
1405	25.77	4.74	98	215	0	1.
1410	24.7	4.55	-28	217	0	0.72
1415	24.25	4.55	-45	230	0	0.56
1420	24.3	4.52	-48	235	0	0.54
1425	23.84	4.53	-52	236	0	0.5
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Comments/Conditions:

Samples were collected by

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Cl, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-1	41.35	19.3	23-33	8/9/2022	1251	35.78

Drawdown: 19.58 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)
1214	26.5	6.1	-103	1420	0	1.04
1219	29.6	6.07	-140	1430	0	0.9
1224	29.58	6.12	-149	1430	0.5	0.62
1229	29.36	6.12	-154	1430	0	0.45
1234	29.98	6.11	-159	1430	0	0.56
1239	30.21	6.12	-164	1430	0	0.47
1242	30.09	6.14	-167	1440	0	0.52
1245	29.98	6.14	-168	1430	0	0.43
1248	30.23	6.13	-170	1440	0	0.46
1251	30.19	6.13	-171	1440	0	0.5
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Comments/Conditions:

Samples were collected by Trey West and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-7	29.94	10.29	15- 35	8/9/2022	1455	26.67

Drawdown: 10.41 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)
1440	30.49	6.55	-275	2620	3.9	0.67
1445	30.58	6.53	-309	2730	1.5	0.34
1450	30.26	6.54	-313	2720	1.3	0.34
1455	30.27	6.52	-316	2720	1.3	0.31
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Comments/Conditions: This tab is for re-sampling event only (8/8/22) original tab is ccr

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW-A1-1	28.14	10.29	10-20	8/9/2022	1028	23.07

Drawdown: 10.5 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)
942	22.59	3.18	155	748	5.1	2.19
947	23.99	4.38	-81	612	3.5	1.01
952	24.1	4.53	-119	596	3.6	1.12
957	24.49	4.58	-130	593	3	0.97
1002	24.84	4.6	-136	586	3.2	0.87
1007	24.72	4.6	-139	595	0.6	0.64
1010	24.72	4.61	-142	599	1.2	0.68
1013	24.81	4.64	-145	600	1.9	0.6
1016	24.72	4.65	-146	602	0	0.5
1019	24.82	4.65	-147	601	0	0.55
1022	24.87	4.65	-148	603	0	0.47
1025	24.91	4.67	-149	605	0	0.48
1028	24.75	4.67	-150	609	0	0.46
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Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-5	37.64	16.36	23'-33'	7/12/2022	1358	35.89

Drawdown: 18.43 depth to GW (ft)

Time	Temp	5рН	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1333	24.67	7.07	-96	1760	1.4	1.08
1338	23.85	6.96	-104	1770	27.3	0.72
1343	23.73	6.84	-94	1740	15.8	0.68
1348	23.82	6.79	-95	1690	10.7	0.64
1353	23.94	6.78	-95	1670	6.7	0.59
1358	24.27	6.76	-94	1660	4.6	0.56

#### Comments/Conditions:

Samples were collected by Trey West and Brad McCray

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-4	28.24	7	12'-22'	7/11/2022	1535	22.51

Drawdown: 7.29 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)
1507	23.55	5.75	21	251	0	3.07
1512	22.92	5.67	-33	273	0	0.94
1517	22.76	5.81	-46	302	0	0.72
1522	22.55	5.93	-56	331	0	0.62
1527	22.46	5.98	-60	342	0	0.59
1532	22.54	6.02	-62	350	0	0.63
1535	22.5	6.03	-63	355	0	0.6
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Comments/Conditions:

DUP @ 1540

Samples were collected by Trey West and Brad McCray

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228 Cl, F, SO4, TDS

 $\textbf{CCR Only:} \ As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved \ As$ 

Ra 226/228 Cl, F, SO4, TDS

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-3	28.31	7.3	10'-20'	7/11/2022	1441	22.76

Drawdown: 7.42 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)
1416	24.03	3.81	95	192	0	1.07
1421	24.27	4.15	61	169	0	0.78
1426	24.11	4.25	44	173	0	0.62
1431	24	4.31	36	178	0	0.53
1436	23.83	4.24	35	182	0	0.49
1441	23.82	4.32	28	183	0:	0.45
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Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-2	29.21	7.37	10'-20'	7/11/2022	1338	24.62

Drawdown: 7.55 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)
1313	23.55	4.53	60	185	0.8	1.57
1318	23.57	4.44	27	195	0	0.74
1323	23.35	4.45	25	204	0.1	0.59
1328	23.09	4.48	21	206	0	0.5
1333	22.91	4.53	14	209	0	0.45
1338	22.91	4.59	8	210	0:	0.44
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Comments/Conditions:

Samples were collected by Trey West and Brad McCray

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-1	41.35	18.58	23-33	7/12/2022	1455	35.81

Drawdown: 18.85 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)
1430	24.42	6.11	-45	1460	0	91
1435	24.16	6.07	-64	1540	0.5	0.84
1440	23.79	6.05	-73	1550	1.4	0.62
1445	23.58	6.04	-80	1550	1.4	0.52
1450	23.38	6.03	-85	1550	0.6	0.5
1455	23.29	6.03	-89	1550	0.4	0.46
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Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-7	29.94	10.23	15- 35	7/13/2022	1000	26.67

Drawdown: 10.36 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)
935	21.53	6.54	-192	2860	5.9	2.51
940	22.65	6.55	-247	2850	7.3	0.62
945	22.36	6.54	-256	2840	7.6	0.54
950	22.27	6.54	-262	2830	3.9	0.48
955	22.34	6.53	-264	2830	1.6	0.46
1000	22.44	6.53	-268	2830	1.6	0.44
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Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW-A1-1	28.14	9.07	10-20	7/12/2022	1044	23.07

Drawdown: 9.22 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
3,000,000,000,000,000	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1010	22.16	3.36	237	442	2	2.42
1015	22.85	3.37	206	421	5.8	1.11
1020	23.16	3.49	123	414	5.5	1.23
1025	23.35	4.31	-10	426	4.7	0.96
1030	23.31	4.54	-32	444	0.6	0.86
1035	23.19	4.58	-40	453	0	1.06
1038	23.22	4.6	-44	459	0	0.93
1041	23.35	4.61	-48	465	0	0.85
1044	23.43	4.62	-52	474	0	0.82
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Comments/Conditions:

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-5	37.64	16.03	23'-33'	3/3/2022	1148	35.94

Drawdown: 17.11 depth to GW (ft)

Time	Temp	5pH	Eh	Spec Cond	Turbidity	Dissolved
	round 1	round 1	ORP	round 1		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1108	22.6	6.92	74	1670	23	0.96
1113	23.77	7.03	30	1670	16.7	0.66
1118	24.03	7.05	10	1680	18.5	0.56
1123	24.1	7.06	-14	1690	17.6	0.49
1128	24.25	7.06	-45	1700	11.6	0.46
1133	24.88	7.06	-58	1700	17.2	0.48
1136	24.89	7.04	-63	1700	11.4	0.46
1139	24.93	7.04	-70	1700	7.1	0.45
1142	24.89	7.02	-75	1700	2.7	0.42
1145	25	7.03	-81	1700	0	0.41
1148	25.11	7.02	-85	1700	0	0.41

#### Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-4	28.24	6.46	12'-22'	3/2/2022	1120	22.54

Drawdown: 6.71 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)
1049	20.18	6.24	161	396	5.2	1.33
1054	19.96	6.21	110	399	10.7	1.08
1059	19.9	6.22	64	409	6.2	0.95
1104	19.89	6.25	26	423	2.6	0.83
1109	19.85	6.28	8	431	0.7	0.77
1114	19.94	6.29	-8	441	0	0.69
1117	19.89	6.3	-13	443	0	0.66
1120	19.92	6.28	-15	447	0:	0.64
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Comments/Conditions:

DUP @ 1125

Samples were collected by Ben Taylor and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As Ra 226/228

C1, F, SO4, TDS

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, I, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-3	28.31	6.66	10'-20'	3/2/2022	1231	22.79

Drawdown: 6.73 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)
1200	19.6	4.46	63	198	6.3	8.25
1205	20.33	4.33	46	197	0	0.62
1210	20.31	4.34	39	198	14.1	0.52
1215	20.37	4.28	30	198	11.9	0.43
1220	20.66	4.3	17	199	7.3	0.37
1225	20.31	4.33	10	197	22.5	0.39
1228	20.54	4.38	8	198	6.7	0.36
1231	20.52	4.4	4	199	6.3	0.36
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Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-2	29.21	6.7	10'-20'	3/2/2022	1354	24.64

Drawdown: 7.04 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)
1320	25.71	5.9	-33	645	15.6	0.77
1325	24.63	5.89	-147	793	29	0.48
1330	24.22	5.88	-162	823	21.8	0.4
1335	23.88	5.82	-180	757	10.6	0.36
1340	23.71	5.57	-181	619	9	0.34
1345	24.02	5.54	-191	629	6.8	0.32
1348	24.02	5.53	-201	635	7.6	0.31
1351	23.89	5.53	-206	634	8.4	0.31
1354	24.01	5.52	-208	644	6.7	0.3

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

NPDES/CCR: Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mo, Pb, Sb, Se, Tl, Zn

dissolved As

Ra 226/228

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WLF-A1-1	41.35	18.14	23-33	3/3/2022	1306	35.82

Drawdown: 18.39 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)
1235	26.4	6.64	-79	2540	0.8	1.08
1240	26.05	6.61	-79	2520	4.1	0.92
1245	26.53	6.52	-54	2090	14.1	0.8
1250	26.47	6.46	-40	1810	11.9	0.76
1255	26.5	6.46	-50	1780	11	0.71
1300	26.32	6.46	-57	1820	10.4	0.7
1303	26.43	6.45	-62	1790	9.3	0.67
1306	26.42	6.45	-67	1800	10.8	0.66
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Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WAP-7	29.94	9.44	15- 35	2/17/2022	1005	26.73

Drawdown: 9.51 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)
934	22.5	6.52	-209	2810	118	0.44
939	21.93	6.46	-224	2800	42.2	0.49
944	22.04	6.47	-240	2800	19.9	0.41
949	22.36	6.46	-244	2780	14.3	0.33
954	22.39	6.45	-243	2770	28.5	0.42
959	22.33	6.44	-248	2780	7.9	0.35
1002	22.37	6.45	-252	2780	7.9	0.33
1005	22.45	6.44	-255	2780	6.1	0.31

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Well ID	TOC	GW	Screen	Sample	Sample	Total
	Elevation	Depth	Intervals	Date	Time	Well
	(feet)	(feet)	(ft, bgs)			Depth
WBW-A1-1	28.14	6.24	10-20	2/16/2022	1346	23.08

Drawdown: 6.44 depth to GW (ft)

Time	Temp	pН	Eh	Spec Cond	Turbidity	Dissolved
Time	round 1	round 1	ORP	round 1	Tarbianty	
	**************************************	The state of the s	Action to the second second	00 00 000000000000000000000000000000000		Oxygen
	(celcius)	(units)	(mV)	(uS/cm)	(NTU)	(ppm)
1315	20.2	4.76	-15	314	0	1.07
1320	20.07	4.75	-53	319	9.9	0.7
1325	20.19	4.71	-63	319	5.7	0.49
1330	20.24	4.71	-73	320	3	0.46
1335	20.26	4.72	-78	320	0	0.48
1340	20.33	4.67	-83	316	0	0.39
1343	20.41	4.67	-86	323	0	0.37
1346	20.49	4.67	-90	324	0	0.35
						,

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase





# REPORT ON ALTERNATE SOURCE DEMONSTRATION (ASD) WINYAH GENERATING STATION CLASS 3 LANDFILL AREA 1 GEORGETOWN, SOUTH CAROLINA

by Haley & Aldrich, Inc. Greenville, South Carolina

for South Carolina Public Service Authority (Santee Cooper) Moncks Corner, South Carolina

File No: 0132892-014 October 2022

#### **Certification Page**

# SANTEE COOPER WINYAH GENERATING STATION; CLASS 3 LANDFILL AREA 1 APPENDIX III SSI ALTERNATE SOURCE EVALUATION

Pursuant to 40 CFR §257.94(e)(2), Haley & Aldrich, Inc., on behalf of Santee Cooper, conducted an alternate source evaluation to demonstrate that a source other than the Class 3 Landfill Area 1 caused the statistically significant increase over background identified during detection monitoring. I certify that this report and all attachments were prepared by me or under my direct supervision. I am a professional engineer who is registered in the State of South Carolina.

This certification and the underlying data support the conclusion that a source other than Class 3 Landfill Area 1 is the cause of the statistically significant increase (SSI) over background levels for Appendix III constituents detected during detection monitoring of this unit.

i

The information contained in this evaluation is, to the best of my knowledge, true, accurate, and complete.

HALEY & ALDRICH, INC.

NO/25476

Susan Jackson, P.E.
South Carolina Professional Engineer
Registration Number 25476

October 24, 2022

Tab	le of C	ontents	Page
Cert	ificatio	on Page	i
List	of Tab	les	iii
List	of Figu	ıres	iii
List	of App	pendices	iv
1.	Intro	oduction	1
	1.1 1.2 1.3 1.4	SCOPE AND OBJECTIVE CCR RULE REQUIREMENTS MONITORING WELL NETWORK FOR THE WGS LANDFILL AREA 1 SITE HISTORY FOR THE WGS UNIT 2 SLURRY POND AND LANDFILL AREA 1	1 2 2 3
2.	Alte	rnate Source Demonstration	5
	2.1 2.2 2.3 2.4 2.5	WGS UNIT 2 SLURRY POND CONTENTS WGS CLASS 3 LANDFILL AREA 1 CONSTRUCTION AND OPERATIONS 2.3.1 Placement of Waste 2.3.2 Composite Liner and Leachate Collection and Removal System 2.3.3 Contact Stormwater Management 2.3.4 Annual Inspections HYDROGEOLOGICAL EVALUATION FLUORIDE EVALUATION 2.5.1 Laboratory Quality Control (QC) Sample Analyses 2.5.2 Field Instrument Calibration and Low-Flow Sampling Logs 2.5.3 Method Detection Limit (MDL) Study Standard Operating Procedu 2.5.4 Statistical Analysis 2.5.5 Summary of Findings for the Laboratory Analytical Data Evaluatio BORON AND CHLORIDE EVALUATION 2.6.1 General Groundwater Chemistry, Quality, and Leachate Evaluatio	11 n 11 11
	2.7	2.6.1.1 Time-Series Plots 2.6.1.2 Bivariate and Piper Plots STATISTICAL EVALUATION 2.7.1 Intrawell Statistical Evaluation 2.7.2 Review of Unit 2 Slurry Pond Interwell Statistical Results 2.7.3 Boxplots	11 12 14 14 14 15
3.	Find	lings and Conclusions	16
4.	Refe	erences	19



#### **List of Tables**

Number	Title
1	Soil Analytical Results
2	Additional Intrawell Statistical Data

#### **List of Figures**

Number	Title
<b>1</b> A	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February - March 2021
18	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, August 2021
1C	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February 15-16, 2022
1D	Potentiometric Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, July 5-6, 2022
1E-1	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, June 2020
1E-2	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, February 2020
1E-3	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, January 2019
1E-4	Class 3 Landfill, Closed Unit 2 Slurry Pond Groundwater Monitoring Potentiometric Map, August 2018
Figure 2	Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, June 2018
Figure 3	Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February 2020
Figure 4	Isoconcentration Map, Class 3 Landfill Area 1 and Closed Unit 2 Slurry Pond, February 2022



# **List of Appendices**

Designation	Title
Α	Letter from SCDHEC Approving State Closure of Unit 2 Slurry Pond (August 2017)
В	Time-Series Plots
С	Bivariate Plots
D	Piper Plots
E	Boxplots



# 1. Introduction

The Class 3 Landfill Area 1 (Landfill Area 1), located at the Winyah Generating Station (WGS), was constructed in 2018 within the footprint of the Closed Unit 2 Slurry Pond. Landfill Area 1 began operations after completing baseline sampling, with the initial placement of waste on November 2, 2018. The statistical analysis conducted following the first round of detection monitoring identified statistically significant increases (SSIs) above background levels of one or more Appendix III constituents. Because Landfill Area 1 is co-located with the Closed Unit 2 Slurry Pond, and because the Appendix III constituents were identified during baseline sampling prior to the placement of waste, an alternate source demonstration (ASD) was conducted, as defined at 40 Code of Federal Regulations (CFR) §257.94(e)(2) (Haley & Aldrich, 2019). This document is posted on the CCR Rule Compliance Data and Information website for the Winyah Generating Station. (<a href="https://www.santeecooper.com/About/CCR-Data-Rule/Winyah/Index.aspx">https://www.santeecooper.com/About/CCR-Data-Rule/Winyah/Index.aspx</a>).

The initial ASD found the WGS Unit 2 Slurry Pond was the alternate source of the SSIs identified during 2019 detection monitoring (Haley & Aldrich, 2019). The initial ASD compared groundwater quality conditions downgradient of Landfill Area 1, prior to receiving coal combustion residuals (CCR), to observed Appendix III constituent concentrations detected after Landfill Area 1 began operations. As stated above, this conclusion was not unexpected because Landfill Area 1 is located within the exact footprint of the excavated Unit 2 Slurry Pond and because the Appendix III constituents were identified in groundwater prior to the placement of CCR in Landfill Area 1. The Unit 2 Slurry Pond, which is now excavated and closed pursuant to South Carolina Department of Health and Environmental Control (SCDHEC) regulations, is an excavated CCR unit, and as such, assessment monitoring is ongoing. Based on the findings of the initial ASD, Landfill Area 1 remained in detection monitoring, and intrawell statistics were used to evaluate Appendix III constituents following the ASD submittal.

Following completion of the detection groundwater monitoring event in January 2022, SSIs of fluoride at WLF-A1-3, and boron and chloride at WAP-7 were identified. The SSIs for the January 2022 semiannual groundwater sampling event were identified within 90 days of receiving the validated lab reports, and the notification was placed into the facility's operating record on July 27, 2022.

Due to the 2022 determination of SSIs for fluoride at WLF-A1-3, and boron and chloride at WAP-7, Santee Cooper elected to reassess the previously identified alternate source, the Unit 2 Slurry Pond, and assess the possibility of additional sources that could be the cause of the SSIs at Landfill Area 1. Haley & Aldrich, Inc. (Haley & Aldrich) was retained by Santee Cooper to conduct an ASD to demonstrate that a source other than Landfill Area 1 caused the SSIs of fluoride, chloride, and boron. This ASD also evaluated the potential for Landfill Area 1 to be a contributing source to the SSIs.

As presented in the sections that follow, findings of this ASD conclude that the 2022 SSIs for fluoride, boron, and chloride were the result of a physical alternative source, specifically the Unit 2 Slurry Pond, in addition to sampling, laboratory, statistical causes, and natural variation. Furthermore, the ASD supports the findings of the initial ASD and provides evidence that the relatively new Landfill Area 1 is currently not a contributing source.

# 1.1 SCOPE AND OBJECTIVE

The objective of this ASD is to present the data and technical evaluation to document that an alternate source exists that is responsible for the concentrations of fluoride, boron, and chloride detected in



downgradient monitoring wells, including WLF-A1-3 (fluoride) and WAP-7 (boron and chloride). This supplemental ASD provides additional lines of evidence to support prior findings of the initial ASD and further evaluates fluoride, boron, and chloride based on hydrogeological, geochemical, and statistical conditions, laboratory analytical data evaluations, and consideration of the construction and operations of Landfill Area 1.

#### 1.2 CCR RULE REQUIREMENTS

The U.S. Environmental Protection Agency (USEPA) regulations regarding assessment monitoring programs for CCR units including landfills and surface impoundments provide owners and operators with the option to conduct an ASD when an Appendix III constituent is identified as a SSI (40 CFR §257.94(e)(2)).

According to the Rule, an owner or operator may "Demonstrate that a source other than the CCR unit caused the SSI over background levels for a constituent or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer [...]."

Additionally, the USEPA Part A Determinations issued on January 11, 2022, commented that ASDs should also meet the lines of evidence as outlined in the *EPA Solid Waste Disposal Facility Criteria Technical Manual (1993)*. These lines of evidence include the following:

- 1. Existence of an alternative source;
- 2. A hydraulic connection exists between the alternative source and the groundwater well with the significant increase;
- 3. Constituent(s) (or precursor constituents) are present at the alternative source or along the flow path from the alternative source prior to possible release from the unit;
- 4. Relative concentration and distribution of constituents in the zone of contamination are more strongly linked to the alternative source than to the unit when the fate and transport characteristics of the constituents are considered;
- Concentration observed in groundwater could not have resulted from the unit, given the waste constituents and concentrations in the unit leachate and wastes, and the site's hydrogeologic conditions; and
- 6. Data supporting conclusions regarding the alternative source are historically consistent with hydrogeologic conditions and findings of the monitoring program.

#### 1.3 MONITORING WELL NETWORK FOR THE WGS LANDFILL AREA 1

The monitoring well network for Landfill Area 1 was installed during landfill construction in May 2018. Design of the Landfill Area 1 groundwater monitoring well network considered prior groundwater monitoring networks. Specifically, the CCR groundwater monitoring network and the historical SCDHEC facility National Pollutant Discharge Elimination System (NPDES) permit groundwater monitoring wells for the Unit 2 Slurry Pond were considered because of their co-location at the two CCR units.

The monitoring well network for Landfill Area 1 includes one upgradient monitoring well (WBW-A1-1), and six downgradient monitoring wells: WAP-7, WLF-A1-1, WLF-A1-2, WLF-A1-3, WLF-A1-4, and



WLF-A1-5. Groundwater monitoring wells WLF-A1-1, WLF-A1-2, WLF-A1-3, WLF-A1-4, and WLF-A1-5 were installed to monitor groundwater quality in the uppermost aquifer and are screened in the same hydrostratigraphic unit as the other existing wells that have undergone groundwater monitoring for the Unit 2 Slurry Pond since 1995 pursuant to SCDHEC regulations. The inclusion of WAP-7, an existing well historically used to monitoring downgradient conditions of the Unit 2 Slurry Pond, was intentional in that this sampling location afforded the added benefit of providing historical data.

#### 1.4 SITE HISTORY FOR THE WGS UNIT 2 SLURRY POND AND LANDFILL AREA 1

This detailed summary of the site history of the WGS Unit 2 Slurry Pond and Landfill Area 1 was incorporated into the ASD evaluation because of its relevance in determining the source of the SSIs. As previously noted, the approximately 31.3-acre WGS Landfill Area 1 was constructed in the footprint of the excavated WGS Unit 2 Slurry Pond. The Unit 2 Slurry Pond is an inactive CCR unit as defined by 40 CFR §257.53. The Unit 2 Slurry Pond was constructed in 1977 and was inactive for many years prior to excavation (i.e., closure-by-removal) in accordance with a State-approved closure plan. While inactive, the unlined Unit 2 Slurry Pond was not capped and was capable of impounding water, resulting in hydraulic loading. Downgradient monitoring well WAP-7 had been used to monitor the Unit 2 Slurry Pond under the NPDES program since 1995, and historical analytical data from the NPDES program is used for this ASD.

State closure of the inactive Unit 2 Slurry Pond was complete pursuant to SCDHEC regulations on November 9, 2017. The SSIs above background levels have been identified downgradient of the Unit 2 Slurry Pond, triggering assessment monitoring. The unit has not identified Statistically Significant Levels (SSLs) of Appendix IV constituents above Groundwater Protection Standards (GWPS) while in assessment monitoring; therefore, it has not triggered corrective measures under the CCR Rule. As a result, the Unit 2 Slurry Pond remains in assessment monitoring. The State closure process involved removal of visible CCR and a layer of underlying subsurface soil. Santee Cooper filed a Notice of Intent (NOI) to initiate closure of the Unit 2 Slurry Pond and placed the NOI in the facility's operating record in December 2015. By May 2017, CCR had been removed from the Unit 2 Slurry Pond, and closure continued with removal of some subsurface soils followed by confirmation soil sampling and grading for drainage. Confirmation soil sampling after removal of CCR demonstrated that CCR constituents had been removed to levels acceptable to SCDHEC and are protective of human health and the environment with land use controls. Even with removal of the CCR and a layer of subsurface soil, analytical results of the remaining soil detected measurable concentrations of multiple constituents including boron, fluoride, and chloride (Table 1).

To prepare for the WGS Landfill Area 1 operation as a CCR unit, five additional downgradient groundwater monitoring wells (WLF-A1-1 through WLF-A1-5) were installed in May 2018. Per baseline sampling requirements in 40 CFR §257.94(b), eight (8) baseline sampling events were completed at each downgradient monitoring well between June and August 2018 prior to receipt of CCR to establish baseline groundwater quality conditions of Landfill Area 1 prior to placement of CCR in Landfill Area 1. These eight baseline samples were analyzed for the Appendix III and Appendix IV constituents consistent with the CCR Rule. Construction of Landfill Area 1 began during this time frame.

Landfill Area 1 has a composite liner system with leachate collection. The first receipt of waste in Landfill Area 1 occurred November 2, 2018, when SCDHEC issued the Permit to Operate. Detection monitoring was conducted as required by 40 CFR §257.94. A statistical analysis of the Appendix III constituents detected in groundwater downgradient of Landfill Area 1 was performed by Haley & Aldrich to evaluate the potential for SSIs of the Appendix III constituents to exist above background. Findings from the



statistical evaluation identified that SSIs of the following Appendix III constituents were present at one or more downgradient wells: boron, calcium, chloride, sulfate, and total dissolved solids (TDS). As noted earlier, a successful ASD was completed for Landfill Area 1, and as a result, Landfill Area 1 remained in detection monitoring relying on intrawell statistical tests to evaluate Appendix III constituents.

The total footprint of Landfill Area 1 is 31.3 acres. At this time, Landfill Area 1 is operating and receiving waste while one section has completed closure. Closure was complete on June 11, 2022 on approximately 12 acres around the bottom perimeter of Landfill Area 1. Closure steps included:

- Final placement of fine subgrade CCR material;
- Completion of general earthwork including placement of borrow fill to form a tack-on berm along the lower perimeter of the closure;
- Installation of a non-woven needle-punched geosynthetic clay liner (GCL) placed directly on top
  of prepared CCR subgrade;
- Installation of Closure Turf directly on top of the GCL;
- Installation of downdrain pipes to manage non-contact stormwater; and
- Installation of a chimney drain that captures ash contact stormwater in the remaining open areas of Landfill Area 1 and routes it through the leachate collection system.

Accordingly, ash contact stormwater and leachate are collected and handled in enclosed systems to prohibit a non-permitted release outside Landfill Area 1.



# 2. Alternate Source Demonstration

Consistent with the CCR Rule, this ASD evaluates multiple lines of evidence to address the identified SSIs individually and collectively. As presented below, this ASD identified contributing factors in the sampling and statistical analysis of fluoride and sources of fluoride, boron, and chloride in groundwater other than Landfill Area 1. The ASD activities performed by Haley & Aldrich included hydrogeological, geochemical, statistical, and laboratory analytical data evaluations in consideration of the location, contents, construction, and operations of Landfill Area 1.

The findings of this ASD demonstrate that the SSIs identified are not related to a release from Landfill Area 1. Rather, the ASD evaluations show that the fluoride detections are due to variability in sampling and laboratory analytical results, and that the residual constituents in soil and groundwater beneath the excavated Unit 2 Slurry Pond (Table 1) continues to be the source of the SSI of Appendix III constituents boron and chloride. The findings of the ASD evaluations and the lines of evidence that support this determination are described below.

#### 2.1 WGS UNIT 2 SLURRY POND CONTENTS

The contents of the former Unit 2 Slurry Pond are discussed in this section because they were identified as the source in the September 2019 ASD and are being currently evaluated in more detail to provide additional lines of evidence to support the premise that the Unit 2 Slurry Pond remains the source of the identified Appendix III constituent SSIs. The Unit 2 Slurry Pond was used exclusively as an industrial wastewater treatment pond for the disposal of flue-gas desulfurization (FGD) wet scrubber slurry from the original FGD systems installed on the WGS operating units. These FGD systems were not forced oxidation systems. Therefore, contents of the pond were largely calcium sulfite (CaSO<sub>3</sub>) and unreacted limestone (calcium carbonate [CaCO<sub>3</sub>]) which had been mined from local quarries. Because of the inefficiencies of the early FGD systems, the limestone was not always exhausted in the FGD process; therefore, residual limestone was present in the wastewater.

Coal contains varying amounts of chlorine and fluorine. When coal is burned, these elements are removed by adhering to the fly ash particles or by being removed in the FGD system. Thus, chlorides and fluoride, which are notorious for causing maintenance issues in FGD systems, are in the FGD wastewater in addition to the calcium sulfite and limestone. Limestone is known to contain total boron and fluoride at concentrations that vary between 100 to 1,000 and 5 to 150 milligrams per kilogram (mg/kg), respectively (Uppin and Karro, 2013). The FGD slurry was reused in the FGD system until the water quality was insufficient for use due to high chloride content. Subsequently, high chloride FGD slurry wastewater was discharged to the Unit 2 Slurry Pond. Throughout the operations of the WGS Unit 2 Slurry Pond, it only received FGD wastewater and did not receive ash sluice water or direct discharge of fly ash or bottom ash. As noted earlier, even though CCR contents in the pond were excavated during closure, testing of the residual subsurface soils showed measurable amounts of constituent concentrations, including boron, fluoride, and chloride.

# 2.2 WGS CLASS 3 LANDFILL AREA 1 CONTENTS

A technical engineering evaluation of the contents, construction, and operations of Landfill Area 1 was conducted to determine the potential of a release from this relatively new and well-constructed landfill. The findings discussed below demonstrate the improbability that Landfill Area 1 is an additional contributing source of the detected Appendix III constituent SSIs.



Landfill Area 1 contains primarily (95.2 percent) ponded ash from WGS Ash Ponds A and B which are undergoing excavation for State closure. The ponded ash is a mixture of approximately 80 percent fly ash and 20 percent bottom ash, and WGS Ash Ponds A and B have SSLs of arsenic, lithium, and molybdenum. Landfill Area 1 also contains non-specification gypsum (1.1 percent) and non-marketable bottom ash (0.3 percent) generated at WGS. Lastly, it contains some subsurface soils (3.4 percent) from Santee Cooper's closure of the Grainger ash ponds.

Analytical results from the ash contact stormwater (leachate) samples reflect the contents of Landfill Area 1. A 2020 sample of ash contact stormwater shows elevated arsenic (47.9 micrograms per liter  $[\mu g/L]$ ), molybdenum (251  $\mu g/L$ ), and selenium (96.9  $\mu g/L$ ) (GEL Laboratories, 2020). An August 2022 leachate sample showed fluoride was below the detection limits (<0.1 mg/L).

#### 2.3 WGS CLASS 3 LANDFILL AREA 1 CONSTRUCTION AND OPERATIONS

The WGS Landfill Area 1 is a permitted Class 3 Industrial Solid Waste Landfill which was specifically designed, constructed, and operated to meet requirements of the CCR Rule (40 CFR Part 257) and SCDHEC landfill regulations. The Landfill Operator-in-Charge and the South Carolina-licensed Professional Engineer (P.E.) who conducted three years of annual inspections were interviewed for this ASD. Based on the construction, operations, and ongoing inspections of this new landfill as described in subsequent sections, it appears unlikely that there is a release from the landfill which could be contributing to the SSIs of Appendix III constituents.

Landfill Area 1 was constructed so that waste is placed with greater than five feet of separation from the seasonal high-water table. The landfill was constructed with a composite liner system, a leachate collection system, and a contact stormwater collection system. It was designed and constructed to prohibit the release of materials, including leachate, into the environment. Throughout the construction process, Santee Cooper engineers oversaw the construction to ensure it was completed in accordance with the permitted construction drawings. Construction quality assurance was contracted to a third-party team of consultants who performed rigorous, industry-standard testing to ensure and certify construction was completed as designed and permitted. Santee Cooper oversees the operation of the landfill and oversees or conducts routine inspections. The Landfill Operator-in-Charge works full time at WGS and is a certified Class 3 landfill manager authorized by the State of South Carolina.

#### 2.3.1 Placement of Waste

The CCR Rule under 40 CFR §257.60(a) states that new CCR landfills "must be constructed with a base that is located no less than 1.52 meters (five feet) above the upper limit of the uppermost aquifer." The *Location Restrictions Compliance Demonstration* (Geosyntec Consultants [Geosyntec], 2018) reviewed the design and construction and judged that it complies with the requirements of 40 CFR §257.60(a) due to its placement above the uppermost aquifer.

## 2.3.2 Composite Liner and Leachate Collection and Removal System

The Landfill Area 1 liner system was designed and constructed to meet the design criteria requirements. The Construction Project Manager-of-Record P.E. certified that the design of the composite liner and the leachate collection and removal system meets the design criteria requirements of 40 CFR §257.70 (GeoSyntec, 2017). The Construction Quality Assurance Report documents that the WGS Landfill Area 1 liner system and leachate collection and removal system was constructed in accordance with the permit



drawings and the permitted technical specifications (Santee Cooper, 2018). Landfill Area 1 has a leachate collection system (LCS) consisting of:

- a 2-foot-thick protective cover/drainage layer underlain with a geocomposite drainage layer;
- a leachate collection corridor composed of a perforated high-density polyethylene (HDPE) pipe surrounded by coarse aggregate and a filter; and
- a leachate sump at the low point filled with coarse aggregate surrounded by a filter and equipped with a riser pipe from which collected leachate will be withdrawn via pumps.

Leachate generated in the landfill flows in the geocomposite drainage layer component of the liner system either directly toward and into the leachate collection sumps, or to the leachate collection corridor where it is conveyed to the lined sump(s). Landfill Area 1 has six leachate pumps with two large pipes that convey the collected leachate to the discharge point, which is the WGS Cooling Pond complex, a permitted wastewater treatment unit. These pumps operate on a regular basis to handle and discharge leachate and ash contact stormwater without any history of an unpermitted release.

## 2.3.3 Contact Stormwater Management

Contact water is stormwater runoff that has been in contact with exposed CCR waste in the active areas of Landfill Area 1. The contact water is managed through sequential management as ongoing lifts of waste are placed in a landfill area cell. Initially, when the elevation of waste was below the elevation of the landfill perimeter, contact water was removed via pumps and discharged to the WGS Cooling Pond Complex. After the elevation of CCR waste was raised above the elevation of the landfill perimeter, a chimney drain decant structure was installed. The chimney drain consists of a perforated vertical concrete riser pipe and is surrounded by attenuating basins. The attenuating basin is a depressed area around the decant structure intended to help filter the contact water. The entire active area, including the attenuating basin, is graded to drain toward the decant structure. The vertical decant structure pipe connects to a horizontal connector pipe at the base, which conveys contact water by gravity through the leachate collection system to the WGS Cooling Pond Complex. Again, the leachate system is enclosed and lined until it discharges into the WGS Cooling Pond Complex (Geosyntec, 2021).

#### 2.3.4 Annual Inspections

The landfill is formally inspected weekly by trained landfill operators under the supervision of the Landfill Operator-in-Charge. It is also inspected annually by professional civil engineers. From a compliance perspective, the landfill is inspected monthly by SCDHEC. To date, there have been no landfill violations based on regulatory inspections. Additional inspections include routine fugitive dust inspections of the site and weekly stormwater pollution prevention inspections by Santee Cooper employees.

The initial annual inspection was conducted on September 18, 2019 by a professional engineer, less than one year after initial operations. At the time of the inspection, the landfill contained approximately 22,220 cubic yards of CCR, which included bottom ash and non-specification gypsum. The inspection report finding was that the landfill "was found to be in satisfactory condition with no significant findings noted." Additionally, a review of the weekly inspections indicated no major structural or operational problems (Santee Cooper, 2019).



The second annual inspection was conducted on October 7, 2020. Again, the landfill was "generally found in satisfactory condition." At the time of the inspection, the landfill contained approximately 375,000 cubic yards of material, which included soil from the Grainger Generating Site and ash from the Winyah Ash Ponds A (Santee Cooper, 2020).

The third annual inspection was conducted on October 5, 2021, and as in previous inspections, the "Landfill was generally found in satisfactory condition." Several maintenance items were noted, specifically reseeding bare soil areas, and trimming vegetation. These maintenance issues in no way compromised the integrity of the landfill or indicated a release had occurred from the landfill. At that time, the landfill contained approximately 1,102,424 cubic yards of material. Throughout the period of the annual inspections, informal daily and formal weekly inspections were conducted in accordance with good engineering practices, and the weekly inspection reports were reviewed by the professional engineer (Santee Cooper, 2021).

Based on the review of the construction and operations of Landfill Area 1, there is no obvious evidence of a release directly from the landfill.

#### 2.4 HYDROGEOLOGICAL EVALUATION

The hydrogeological evaluation for this ASD consisted of preparing groundwater elevation contour maps (potentiometric maps) for February 2021, August 2021, February 2022, and July 2022 (Figures 1A through 1D). The potentiometric maps are used to interpret groundwater flow direction and approximate flow rates (velocity). The February 2021 through July 2022 potentiometric maps, as well as historical potentiometric maps (Figures 1E-1 through 1E-4) submitted to DHEC by Santee Cooper (2018 to 2020) for the Unit 2 Slurry Pond show that groundwater has consistently flowed in a radial pattern away from the unit to the south, southwest, or southeast across Landfill Area 1 and Unit 2 Slurry Pond. Groundwater flow direction has remained relatively consistent to the southwest or to the south throughout the groundwater monitoring period.

Average linear velocity of groundwater flow in the uppermost aquifer at Landfill Area 1 is calculated to be approximately 0.02 feet per day (ft/day) or 7 feet per year (ft/year). This value was calculated using interpreted groundwater flow and hydraulic gradients calculated for the 2021 and 2022 semiannual events (Figures 1A through 1D).

Isoconcentration maps of the Appendix III constituents with SSIs were prepared for June 2018, February 2020, February 2022, and July 2022 (Figures 2 through 5, respectively). The isoconcentration maps can be used to identify specific source areas for constituents of concern and be used to characterize the lateral chemical variation across a site. When isoconcentration maps are prepared for multiple groundwater sampling events, they can also be used to evaluate changes in plume geometry as the constituents migrate through the groundwater system. The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. Subsequent isoconcentration maps demonstrate that the plumes are migrating to the south in the direction of groundwater flow toward well WAP-7. The isoconcentration maps show that fluoride detections are sporadic near the laboratory RL of 0.1 mg/L.

The distance between the southern edge of the Unit 2 Slurry Pond and well WAP-7, which monitors the southern boundary of both Landfill Area 1 and the Unit 2 Slurry Pond, is over 50 feet on the outer edge of the landfill access road. Based on the location of WAP-7, the groundwater flow rate, and the location of the CCR in Landfill Area 1, it is unlikely that a release directly from the landfill would have culminated



in the monitoring area of the well during the first four years of landfill operations. Additionally, the length of the groundwater flow path from WLF-A1-1 to WAP-7 is approximately 1,500 feet, which represents approximately 200 years for constituents to migrate from WLF-A1-1 beneath the northern portion of the unit to WAP-7 and completely flush through the system.

Knowing that the Unit 2 Slurry Pond began operating in 1977, and that during operation the groundwater flow velocity would have been greater due to the head on the pond, there has been sufficient time for releases from the Unit 2 Slurry Pond to migrate to the downgradient monitoring wells. Conversely, one would conclude that there has not been enough time for a release from the new Landfill Area 1 to have reached the downgradient monitoring wells, even if that release occurred on the first day of operation, November 2, 2018.

#### 2.5 FLUORIDE EVALUATION

The statistical evaluation of the March 2022 sampling event identified a SSI for fluoride at monitoring well WLF-A1-3. This was the first detection of fluoride at WLF-A1-3 above the reporting limit of 0.1 mg/L, and as a result was identified as a SSI, even though the measured value of 0.15 mg/L is well below the GWPS of 4 mg/L.

This evaluation and discussion of the fluoride SSI is independent from the chloride and boron SSI evaluation primarily because the SSI was detected in a different groundwater monitoring well from the chloride and boron and because the factors contributing to the SSI were different than the factor identified for boron and chloride. While a confirmation sample was not collected following the March 2022 sampling event, fluoride was not detected in subsequent sampling conducted in July and in August 2022, consistent with previous results. This warranted an in-depth sampling, analytical, and statistical review to supplement the full ASD evaluation.

Of note, other downgradient wells WLF-A1-2 and WLF-A1-5 showed comparable concentrations of fluoride in 2018 prior to the placement of CCR in Landfill Area 1, with results also slightly above the reporting limit and ranging from 0.11 mg/L to 0.14 mg/L. Based on knowledge of the contents of the Unit 2 Slurry Pond and on analytical results from soil sampling, fluoride is known to exist in areas of the soil left in-place after excavation of the pond and prior to construction of the landfill. Conversely, one sample was collected from the Landfill Area 1 leachate discharge on September 15, 2022, and the sample was non-detect (<0.1 mg/L) for fluoride. This indicates there is the potential for natural site variability with fluoride having the potential to be sporadically detected near the reporting limit; however, it is not indicative of a release from Landfill Area 1.

To provide additional information for this ASD and prior to receiving the results for the July and August 2022 sampling results, an evaluation of fluoride results from the March 2022 sampling event was performed by Haley & Aldrich by reviewing laboratory quality control (QC) sample analyses, field instrument calibration and low-flow sampling logs, and the method detection limit (MDL) study standard operating procedures (SOPs). The intent of the evaluation was to determine if the detected concentrations of fluoride and other constituents could be due to either analytical or sampling procedure anomalies that may have biased the reported results.

## 2.5.1 Laboratory Quality Control (QC) Sample Analyses

On August 29, 2022, Santee Cooper provided a summary of the analyses of groundwater collected from well WLF-A1-3 from June 2018 through August 2022. The spreadsheet included results of laboratory



analysis for inorganic constituents arsenic, barium, calcium, cadmium, and cobalt, and iron by USEPA Method 6020A, boron by USEPA Method 6010C, chloride, fluoride and sulfate by USEPA Method 300, and radium by method EPA 903.1 MOD and EPA 904.0. It also included the indicator field parameters pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity, which was obtained by the sampling team corresponding with each sample submitted for laboratory analysis.

A comparison of the historical dataset to the March 2022 results by the laboratory staff identified several parameters in the March 2022 dataset that were present at the highest observed concentrations. These parameters included turbidity measured in the field and cobalt and fluoride determined in the laboratory. (Note: The concentrations of chloride and boron detected in the March 2022 sample were below the historical highest concentration detected at this well location.)

Santee Cooper also provided the QC information for the analysis of anions, nitrate, chloride, fluoride, bromide, and sulfate by USEPA Method 300 for the March 2, 2022 sample. The QC sheet provides a summary of the results for QC samples including initial and continuing calibration verification standards, the minimum reporting limit (MRL) standard, and laboratory duplicate and matrix spike sample analyses. Review of the QC sheet information indicates that the analytical system used for the analysis of these parameters was within the acceptance limits for the method and the reported results were representative of the sample conditions.

## 2.5.2 Field Instrument Calibration and Low-Flow Sampling Logs

On August, 29 2022, Santee Cooper also provided the calibration logs for the field instruments used to monitor the indicator parameters during the collection of the groundwater samples for analysis throughout 2022. Review of the calibration logs confirmed that the field instruments were calibrated with appropriate standard reference materials (SRMs) prior to use. Review of the low-flow sampling logs confirmed that the sample collected on March 2, 2022 from WLF-A1-3 exhibited elevated turbidity measurements ranging from 6.3 to 22.5 nephelometric turbidity units (NTUs) when compared to sampling events conducted prior to and after the March 2022 sampling event.

The cause of the elevated turbidity is unknown. Santee Cooper performed low-flow groundwater sampling in accordance with the USEPA-developed low-flow sampling techniques, which addresses issues associated with the suspension of aquifer materials within monitoring wells installed in fine-grained water-bearing units (USEPA, 1996). Haley & Aldrich recommends that the turbidity should be below 10 NTUs before collecting a groundwater sample; and below 5 NTUs if practicable to ensure the constituent metals concentrations are representative of groundwater conditions and are not potentially biased-high due to elevated turbidity levels. The slightly elevated turbidity represents a potential source of error contributing to the identified SSI.

## 2.5.3 Method Detection Limit (MDL) Study Standard Operating Procedure

On August 31, 2022, Santee Cooper provided a copy of Revision 4 of the laboratory's MDL study SOP dated April 19, 2021. Review of the SOP indicates that the determination of the MDL for the laboratory analyses is consistent with the procedure promulgated at CFR Part 136, Appendix B, as revised by the USEPA in December 2016. Thus, the RLs established based on the MDL studies performed by the laboratory incorporate the variability for measurements obtained throughout the instrument calibration range and should preclude the potential for false positive results at concentrations above the laboratory RL. During a telephone conference call with the Santee Cooper laboratory on August 22, 2022,



laboratory staff indicated parameters detected at concentrations above the MDL but below the established RL are not reported to the data user.

### 2.5.4 Statistical Analysis

The laboratory policy of not reporting concentrations above the MDL, but below the established RL could have affected the identification of fluoride as a statistical exceedance since all previous and subsequent sample results were reported below the RL, thus creating a one-sided dataset that was used to establish the action level. This creates the potential for a positive bias in the data evaluation for fluoride. Additionally, the statistics for the March 2022 sampling event were based on an upper prediction limit (UPL) of 0.1 mg/L based on 14 sampling events. The intrawell confidence level was 77.8 percent and the interwell uncertainty was 63.6 percent.

# 2.5.5 Summary of Findings for the Laboratory Analytical Data Evaluation

Based on the review of the historical data, laboratory QC and field instrument calibration procedures, and the low-flow sampling logs, the elevated concentration of fluoride detected in the March 2, 2022 sample obtained from well WLF-A1-3 is likely due to suspended solids entrained within the field sample during sample collection. Each of these parameters can be associated with the suspended solids observed in the March 2022 WLF-A1-3 sample prior to collection. This conclusion is also supported by the elevated concentrations of cobalt and radium 226/228 detected in the March 2022 sampling event for the Unit 2 Slurry Pond as compared with historical and subsequent samples collected from well WLF-A1-3.

In conclusion, the findings of the sampling and laboratory evaluation combined with the calculated statistical uncertainties and knowledge of prior site conditions "demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality" (Ref 40 CFR §257.94 (e)(2).

#### 2.6 BORON AND CHLORIDE EVALUATION

#### 2.6.1 General Groundwater Chemistry, Quality, and Leachate Evaluation

The results and discussion for the general groundwater chemistry and quality evaluations are provided in the sections below and include evaluations of time-series plots, bivariate plots, and piper plots of the constituents where SSIs were identified (boron and chloride) along with other relevant indicator parameters. The data presented in the time-series and bivariate plots include the background well (WBW-A1-1) and downgradient monitoring wells (WAP-7 and WLF-A1-1 through WLF-A1-5). Data for the constituents plotted were available from June 2018 through August 2022 for each of the monitoring wells. Some constituents (chloride, sulfate, TDS, calcium, and specific conductivity) were available for WAP-7 from October 1995 through August 2022. Two graphs were constructed for the constituents where long-term data is available for WAP-7. One graph shows 2018 to 2022 data for each of the wells, and a second graph shows the available historical data for WAP-7.

#### 2.6.1.1 Time-Series Plots

Time-series plots are used to evaluate how constituents are changing over time at a site. While time-series graphs should not be the sole method for evaluating constituent data, they are useful to evaluate



site data when combined with other lines of evidence such as hydrogeological and other geochemical evaluations, such as bivariate plots. The time-series plots for constituents with SSIs, other indicator parameters, and water levels are presented as Appendix B-1 and Appendix B-4. The time-series plots include data for the background monitoring well and the downgradient monitoring wells.

The temporal plots show that boron and chloride concentrations have increased in WAP-7 to a concentration similar to that of WLF-A1-1 in June 2018. This concentration trend is similar for other Appendix III constituents as well as other indicator parameters, including calcium, sulfate, specific conductivity, and TDS. This is consistent with the hydrogeological evaluation that demonstrated that a plume of boron and chloride, sourced by the Unit 2 Slurry Pond, is still migrating along the groundwater flow path beneath the former Unit 2 Slurry Pond from WLF-A1-1 to the south to WAP-7 before discharging into the WGS Cooling Pond complex.

Historical concentrations of the following constituents were recorded in monitoring wells at the Unit 2 Slurry Pond and Class 3 Landfill Area 1 before waste was placed into the unit at concentrations higher than the recent detections of boron and chloride in WAP-7:

- Boron: 4,100 μg/L at WLFA1-1 and 3,000 μg/L at WLF-A1-5
- Chloride: 1,671 mg/L at WAP-7, 270 mg/L in WLF-A1-1, and 211 mg/L at WLF-A1-2

A leachate sample was collected by Santee Cooper on October 2, 2020 and was analyzed for several metals, including boron. The boron concentration was 1,530  $\mu$ g/L, which at that time was higher than concentrations of boron measured in WAP-7 (February 2021 to August 2021), but lower than the concentrations in WLF-A1-1 (2,400  $\mu$ g/L). Boron concentrations in leachate collected in 2021 and 2022 are also lower than historical concentrations of boron and chloride at WLF-A1-1 before waste was placed into Landfill Area 1. The leachate boron results show that the boron concentrations in WAP-7 would not have resulted from the leachate because the recent boron concentrations in WAP-7 are higher than the leachate concentrations, and therefore the concentrations in leachate are not high enough to be the source. The decreasing concentrations of boron along the northern boundary at WLF-A1-1 combined with the increasing concentration trend for boron at WAP-7 is consistent with the hydrogeologic framework and indicative of a boron plume that is migrating through the shallow groundwater system.

# 2.6.1.2 Bivariate and Piper Plots

Bivariate plots help explore correlations between constituents of concern and other indicator parameters that may be used to reveal the signature or fingerprint of a groundwater source and identify differences indicative of alternate sources. The bivariate plots were used to evaluate groundwater types and signatures at the site. The bivariate plots constructed were sulfate versus (vs) chloride, chloride vs TDS (Appendix C-1), calcium vs sulfate and sulfate vs TDS (Appendix C-2), and chloride vs boron, sulfate vs boron, and calcium vs boron (Appendix C-3). The bivariate plots show each monitoring well used to monitor the unit. Data from 2018 through 2022 were plotted, and a second bivariate plot was constructed where historical data for WAP-7 (1995 through 2017) were available to compare long-term bivariate correlations. The three most recent data points for WAP-7 (February 2022, July 2022, and August 2022) are shown separately on each bivariate plot to identify how the recent constituent concentrations in WAP-7 compare to previous sampling events, as well as how they compare to other wells for the site.



The site monitoring wells generally plot along the same regression line on the bivariate plots. This linear relationship shows that the signature of constituents in the monitoring wells are similar and that the monitoring wells are being influenced by the same source under different dilution of spatial conditions. The results of the recent sampling events (February 2022-August 2022) for WAP-7 overlap with the signature of WLF-A1-1. Monitoring well WLF-A1-5 is also overlapping with the signature of WLF-A1-1 as concentrations of boron and chloride increase. The increase in concentrations in the downgradient wells that plot along the regression line supports the results of the hydrogeological evaluation that shows that the boron and chloride plumes are migrating through the groundwater along the direction of groundwater flow. The data points fluctuate around the regression line because of the dynamic groundwater system after the landfill has been put in place but are showing a trend through time representing the plume migration.

Limited leachate data were available for the bivariate plots but were included in the evaluation. For the 2018-2022 dataset, the leachate shows a similar proportion of constituents (i.e., plots along the regression line) at the high end of the concentration range. Concentration of constituents for well WLF A1-1 also plot along the regression line at the high end of the concentration range. The leachate plots along the same regression line as the site monitoring wells and overlaps with the signature of site monitoring wells, which means that the signature of the leachate on the bivariate plots is inconclusive for disqualifying leachate as a possible source. However, where historical data are available (1995 to 2017) for WAP-7 and added to the bivariate plots (Appendix C-1 and Appendix C-2), the concentration and ratios of constituents in WAP-7 for the 2022 sampling events as well as the values for WLF-A1-1 and the leachate are within the variability of historical concentrations present before waste was placed into Landfill Area 1.

Metals concentrations measured in the leachate sample for Landfill Area 1 contained elevated metals concentrations of arsenic (47.9  $\mu$ g/L), molybdenum (251  $\mu$ g/L), and selenium (96.9  $\mu$ g/L). Molybdenum and selenium have not been detected in the downgradient monitoring wells. Arsenic is typically non-detect or detected sporadically at low-level concentrations below the GWPS (<10  $\mu$ g/L), including at WLF-A1-3 before CCR was placed into Landfill Area 1, which indicates that low-level concentrations of arsenic are representative of groundwater conditions prior to operation of Landfill Area 1. The absence of the metals in the leachate when compared to the monitoring wells supports the hydrogeological evaluation that leachate would not have had time to reach the site monitoring wells and further indicates there is not a release from Landfill Area 1 that is impacting site monitoring wells.

A Piper diagram was constructed using the concentration of the major cations including calcium, magnesium, sodium, and potassium, and anions including sulfate, chloride, and carbonates in groundwater samples collected from the site monitoring wells and is presented as Appendix D. Alkalinity data for the leachate was not available; therefore, the alkalinity value for the leachate was substituted with the alkalinity value from monitoring well WLF-A2-6. This alkalinity value is considered the best available option considering available data because WLF-A2-6 monitors the Ash Pond A that was excavated and provided the bulk of the contents in Landfill Area 1. While there is a slight difference in cation concentrations between WAP-7 and the leachate, the anions are very similar, which results in them plotting together on the Piper plot. The Piper plot shows that the leachate does not have a distinct geochemical signature when compared to the downgradient monitoring wells, and neither supports nor disputes the findings of this ASD.

While the results of the geochemical evaluations by themselves cannot conclusively eliminate Landfill Area 1 as a source of boron and chloride, the other lines of evidence including the modern landfill design, and landfill inspection results, historical concentrations, hydrogeological evaluation, and



statistical evaluation indicate that the groundwater historically impacted by the Unit 2 Slurry Pond is the alternate source for the Appendix III SSIs detected, and that the Class 3 Landfill Area 1 is not the source.

#### 2.7 STATISTICAL EVALUATION

#### 2.7.1 Intrawell Statistical Evaluation

Because the temporal plots show that chloride concentrations at WAP-7 were significantly higher prior to the construction of the Class 3 Landfill Area 1, an additional statistical evaluation was performed to evaluate the recent SSIs. The statistical evaluation consisted of performing additional intrawell statistical evaluation for WAP-7, reviewing the interwell statistical analysis of Appendix IV constituents performed for the Unit 2 Slurry Pond, and constructing boxplots and for the downgradient monitoring wells.

The baseline sampling schedule was completed within three months due to the operating requirements of Landfill Area 1; therefore, the baseline dataset does not fully capture temporal variability of background water quality conditions. Additional intrawell statistical analyses were run for WAP-7 using a longer background period that captured the variability of background conditions of boron and chloride for groundwater known to be affected by the Unit 2 Slurry Pond.

Two additional intrawell statistical analyses were performed for chloride at WAP-7; one background set incorporated the entire historical dataset from October 1995 through August 2021; the second background set incorporated data from May 2002 through August 2021. The results of these intrawell statistical evaluations did not result in a SSI for chloride and support the premise that the February 2022 detection of chloride is within the variability of the groundwater concentrations associated with the release from the Unit 2 Slurry Pond.

One additional intrawell statistical analysis was performed for boron at WAP-7, which included the only two additional available historical data points, one from June 2013 and the other from January 2014. The results of this intrawell statistical evaluation still resulted in a SSI for boron. The result of this intrawell statistical evaluation is considered to be inconclusive, because the historical dataset for boron is not robust and the temporal variation is not fully represented. Boron and chloride have a strong bivariate correlation, and the boron concentrations for other wells upgradient of WAP-7 indicate that historical concentrations for boron may have been higher as seen for the historical chloride concentrations at WAP-7. The hydrogeologic evaluation supports that the increasing boron concentrations are from a pre-existing plume of elevated boron migrating through the groundwater system.

## 2.7.2 Review of Unit 2 Slurry Pond Interwell Statistical Results

The Unit 2 Slurry Pond is currently in assessment monitoring using interwell statistical analysis for Appendix IV constituents, where the downgradient monitoring wells are compared to the background well WBW-A1-1. As previously described, the downgradient wells for the Unit 2 Slurry Pond are the same wells used to monitor the Class 3 Landfill Area 1. The results of the assessment monitoring interwell statistical analysis show no SSLs of Appendix IV parameters when compared to the background monitoring well WBW-A1-1.



### 2.7.3 Boxplots

A boxplot is a method for graphical analysis of numerical data through their quartiles. Boxplots, which are sometimes called box-and-whisker plots, are a method to evaluate similarities or differences between groups of data that have been measured for the same constituent. A boxplot is constructed using the interquartile range (25th percentile and 75th percentile) with the median (50th percentile) shown as a horizontal bar within the box. Whiskers are also displayed and extend to 1.5 times the interquartile range. Data falling outside of the whiskers are considered outliers of a group or location and are plotted as individual points beyond the whiskers on the boxplot. Datasets are considered similar if the boxes overlap. If the boxes do not overlap (i.e., the box representing one well is completely above or below the box representing another well) then there is a difference between the data of the two groups or locations. Boxplots were created for boron and chloride for downgradient wells monitoring the Landfill Area 1 and Unit 2 Slurry Pond (Appendix E).

The boron boxplots were constructed using the available June 2018 through August 2022 data for downgradient monitoring wells WLF-A-1 through WLF-A1-5, as well as available boron data for WAP-7 from 2013 and 2014. The boron boxplots show that the February 2022 concentration of boron at WAP-7 is within the quartile ranges of boron for WLF-A1-1 and WLF-A1-5, and that the June and August 2022 concentrations of boron at WAP-7 is within the 1.5 interquartile range (whisker) of boron for WLF-A1-1. The July and August 2022 boron concentrations at WAP-7 are also within the 1.5 interquartile range of WLF-A1-1. The boron boxplots show that the concentrations of boron at WAP-7 are within the representative range of concentrations for that constituent at the site.

The chloride boxplots were constructed using the available June 2018 through August 2022 data for downgradient monitoring wells WLF-A-1 through WLF-A1-5, as well as available chloride data for WAP-7 from 1995 through 2017. Two chloride boxplots were constructed. Each chloride boxplot presents a different range of historical values for WAP-7 (February 2002 through August 2022, and 1995 through August 2022). The chloride boxplots show that the February, July, and August 2022 chloride concentrations for WAP-7 are within the interquartile range of chloride for WAP-7 for the 1995-2022 dataset, and within the interquartile range of chloride for WLF-A1-1 for the 2002-2022 dataset. The chloride boxplots show that the concentrations of boron at WAP-7 are within the representative range of concentrations for that constituent at the site.



# 3. Findings and Conclusions

In the original ASD for Landfill Area 1, Haley & Aldrich concluded that the Unit 2 Slurry Pond is the alternate source for the Appendix III SSIs detected downgradient of the new Class 3 Landfill Area 1. In this supplemental ASD, Haley & Aldrich concludes that the residual constituents in soil and groundwater beneath the excavated Unit 2 Slurry Pond remains the alternate source for the Appendix III SSIs detected downgradient of the new Class 3 Landfill Area 1, and for the reasons outlined in this ASD, that Landfill Area 1 is not a contributing source. Consistent with 40 CFR §257.94(e)(2), this written successful demonstration, which includes obtaining a certification from a qualified professional engineer, has been completed within 90 days of detecting a SSI above background levels. As a result, and consistent with 40 CFR §257.94(e)(2), the Class 3 Landfill Area 1 at the WGS will remain in detection monitoring.

1. An alternative source exists.

<u>Fluoride</u>, boron, and chloride: Fluoride, boron, and chloride are known to exist in areas of the remaining soil after excavation of the Unit 2 Slurry Pond and prior to construction of Landfill Area 1. The Unit 2 Slurry Pond exists within the footprint of Landfill Area 1. The Unit 2 Slurry Pond was constructed in 1977 and was inactive for many years prior to the excavation and subsequent construction of Landfill Area 1.

2. A hydraulic connection exists between the alternative source and the groundwater well with the significant increase.

<u>Fluoride</u>, boron, and <u>chloride</u>: The monitoring well network used to monitor shallow groundwater for the Class 3 Landfill Area 1 also monitors the Unit 2 Slurry Pond, and the monitoring wells installed in 2018 are screened in the same hydrostratigraphic unit as the existing wells that have historically monitored groundwater for the Unit 2 Slurry Pond (WAP-7) since 1995. The Unit 2 Slurry Pond was hydraulically connected to groundwater, as evidenced by the detection of Appendix III constituents, whereas Landfill Area 1 was purposefully constructed to not be hydraulically connected to groundwater.

3. Constituent(s) (or precursor constituents) are present at the alternative source or along the flow path from the alternative source prior to possible release from the unit.

<u>Fluoride</u>: Downgradient wells WLF-A1-2 and WLF-A1-5 showed comparable concentrations of fluoride in 2018 prior to the placement of CCR in Landfill Area 1, with results also slightly above the reporting limit and ranging from 0.110 mg/L to 0.140 mg/L. As mentioned previously, fluoride is known to exist in areas of the remaining soil after excavation of the Unit 2 Slurry Pond and prior to construction of Landfill Area 1.

<u>Boron and chloride</u>: The Unit 2 Slurry Pond was constructed in 1977 and was inactive for many years prior to excavation and subsequent construction of Landfill Area 1 in the same footprint of the Unit 2 Slurry Pond. While an inactive unit, the Unit 2 Slurry Pond was not capped and was capable of impounding water resulting in hydraulic loading. Potentiometric maps show that groundwater has consistently flowed in a radial pattern away from the unit to the south, southwest, or southeast across Landfill Area 1 and the Unit 2 Slurry Pond. The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. The 2018 concentrations of boron and chloride at WLF-A1-1 are similar to 2022 concentrations in WAP-



- 7. Isoconcentration maps show that the plumes are migrating in the direction of groundwater flow toward the well WAP-7.
- 4. Relative concentration and distribution of constituents in the zone of contamination are more strongly linked to the alternative source than to the unit when the fate and transport characteristics of the constituents are considered.

<u>Fluoride</u>: This was the first detection of fluoride at WLF-A1-3 above the reporting limit of 0.1 mg/L, and the measured concentration of 0.15 mg/L is well below the GWPS of 4 mg/L. The slightly elevated turbidity in the sample represents a potential source of error contributing to the initial detection of fluoride that resulted in a SSI.

Boron and chloride: The June 2018 isoconcentration maps show a boron and chloride plume in the shallow groundwater before waste was placed in Landfill Area 1. Boron and chloride at concentrations similar to WAP-7 concentrations were observed in WLF-A1-1 in 2018. Boron is notably decreasing at WLF-A1-1, while an upward trend of boron has been observed at WAP-7 as the boron and chloride plume migrate through the shallow groundwater system. Additionally, the concentrations of boron and chloride in WLF-A1-1 in 2018 are higher than concentrations of boron and chloride currently observed in the Landfill Area 1 leachate. This strongly indicates that the groundwater affected by the Unit 2 Slurry Pond is the source of boron and chloride and not Landfill Area 1. Statistical evaluations also show that the current concentrations of boron and chloride are within the range of representative groundwater concentrations for wells at the site, including concentrations prior to the construction of Landfill Area 1.

5. Concentration observed in groundwater could not have resulted from the unit given the waste constituents and concentrations in the unit leachate and wastes, and site hydrogeologic conditions.

<u>Fluoride</u>, boron, and chloride: The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. Subsequent isoconcentration maps demonstrate how that the plumes are migrating to the south in the direction of groundwater flow. The distance between the southern edge of the Unit 2 Slurry Pond and well WAP-7, which monitors the southern boundary of both Landfill Area 1 and the Unit 2 Slurry Pond, is over 50 feet on the outer edge of the landfill access road. Based on the location of WAP-7, the groundwater flow rate, and the location of the CCR in Landfill Area 1, it is unlikely that a release directly from the landfill would have culminated in the monitoring area of the well during the first four years of landfill operations. The isoconcentration maps show that fluoride detections are sporadic near the reporting limit of 0.1 mg/L.

<u>Fluoride</u>: One sample was collected from the Landfill Area 1 leachate discharge on September 15, 2022, and the sample was non-detect (<0.1 mg/L) for fluoride. This indicates that Landfill Area 1 is not the source of fluoride.

Boron: Leachate samples collected by Santee Cooper on October 2, 2020 were analyzed for several metals including boron. The boron concentration was 1,530  $\mu$ g/L, which at that time was higher than concentrations in WAP-7 but lower than the concentrations in WLF-A1-1 (2,400  $\mu$ g/L). Boron concentrations in leachate collected in 2021 and 2022 are also lower than historical concentrations of boron and chloride at WLF-A1-1 before waste was placed in Landfill Area 1. The leachate boron results show that the boron concentrations in WAP-7 would not have resulted from the leachate because the boron concentrations in leachate are not high enough to be the source.



6. Data supporting conclusions regarding the alternative source are historically consistent with hydrogeologic conditions and findings of the monitoring program.

<u>Fluoride</u>, boron, and chloride: The June 2018 isoconcentration map shows that plumes of boron and chloride existed at the site before waste was placed in Landfill Area 1. The potentiometric maps used for the hydrogeologic evaluation (2018 through 2022) show that groundwater has consistently flowed in a radial pattern away from the unit to the south, southwest, or southeast across Landfill Area 1 and the Unit 2 Slurry Pond. The series of isoconcentration maps for boron and chloride demonstrate how the plumes are migrating to the south in the direction of groundwater flow toward well WAP-7. Finally, based on the review of the construction and operations of the relatively new Landfill Area 1, there is no obvious evidence of release directly from the landfill.



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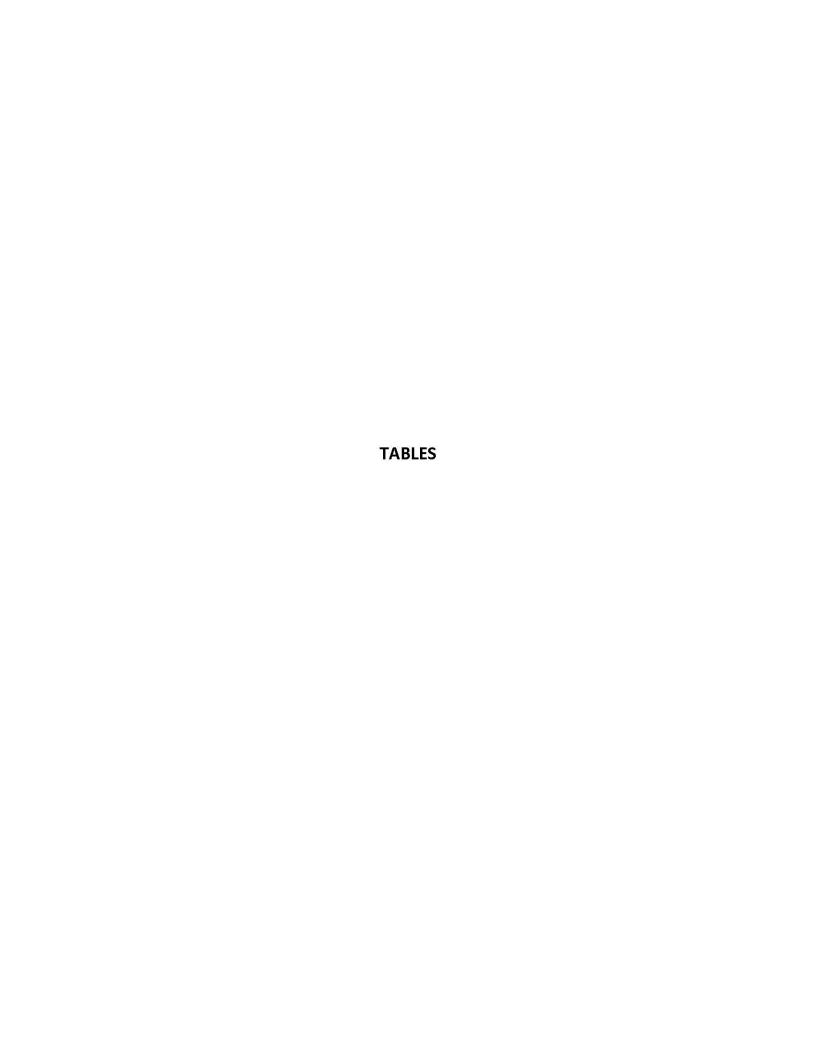


TABLE 1 - SOIL ANALYTICAL RESULTS

	santee cooper			3X Background	6076	122.6	1.4	12.2	0	0.000	72.2	15.3	0.4	0	2471.3	8.2	254.8	12.7	3	78.4	167.4	0	3859.1	0	2.7	13.9	47.7	0	131.5	231.6
	"santee cooper	Analytic	al Services	EPA Eco.Soil	-	=	18	330	7.5	0.360	122	- 2	13	32	20	11	522	220	38	22	55 <u>4</u>	0.52	2207	72	96	7E	722	<u> </u>	22	227
				EPA Eco Sed	25000	230	9.8	20		1.000	155	155	50	550	20000	35.8	852	460	22.7	- 75	177	11		977	97B		39	852		
				EPA Worker Soil	110000	-	3	2.2E+04	2.3E+04	9300.000	655	= ]	1.9E+03	4.7E+03	8.2E+04	8.2E+02	100	2.6E+03	6.4E+04	177	5 <del></del>	580	1.8E+06	1 <del>-</del>	7.0E+04	in in	570	6.0E+05	-	6.0E+04
	Sample ID	Location Code	Description	Sample Date	Aluminum	Ammonia-N	Arsenic	Barlum	Baran	Cadmium	Calcium	Chloride	Cobalt	Fluoride	lo <u>l</u>	Lead	Magnesium	Manganese	Nickel	Phosphorus	Potassium	Selenium	Silica	Sodium	Strontium	Sulfate	Sulfide	Sulfite	Sulfur	Titanium
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mgArg	mg/kg	mg/kg	mg/kg	mgkg	mg/kg	mg/kg	l mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					SW646 6010D	EPA350.1	SW646 6010D	SW646 6010D	SW846 6010D	SW846 6010D	SW646 6010D	SW846 9056A	SW846 6010D	SW846 9056A	SW846 6010D	SW846 6010D	SW646 6010D	SW846 6010D	SW646 6010D	EPA 365.4	SW646 6010D	SW846 6010D	SW846 6010C	SW646 6010D	SW646 6010D	SW646 9056A	EPA 9034	SM4500_SO3_B	SW846 6010D	SW846 6020B
	AD81662	WGS_CCP	Discrete - 1	5/15/17	3020	31.4	< 1.13	5.67	28.90	< 0.226	3570	7.89	< 0.226	15.3	357	3.1	109	13.4	1.24	51.7	72.2	6.84	1930	< 56.4	18.9	1750	< 27.9	< 100	1190	205
	AD81663	WGS_CCP	Discrete - 2	5/15/17	7270	51.1	< 0.993	10.5	< 9.96	< 0.199	9210	68	0.519	3,63	1380	5.19	209	10.7	3.4	21	98.6	< 0.993	3680	< 49.6	11.5	11900	< 25.7	< 100	7330	83.8
	AD81664	WGS_CCP	Discrete - 3	5/15/17	5410	33.9	< 1.23	9.23	13.60	< 0.247	5090	305	0.372	< 1.28	455	4.46	84.9	10.8	1.63	172	< 74	1.34	1380	< 61.6	14.8	13500	< 30.5	< 100	10300	76.7
unit.	AD81665	WGS_CCP	Discrete - 4	5/15/17	2500	22.2	< 1.01	3.60	12.40	< 0.202	7330	3.18	0.241	9.86	337	2.7	78.5	16.9	1.2	39.5	< 60.7	6.48	1320	< 50.6	14.3	6600	< 25.4	< 100	5550	229
ecisio	AD81666	WGS_CCP	Discrete - 5	5/15/17	4640	11.6	< 1.23	17.90	< 12.20	< 0.246	824	33.5	0.441	3.32	1500	2.96	181	14.8	1.82	17.6	82.4	< 1.23	3320	< 61.4	3.71	1260	< 32.3	< 100	498	160
g g cue d	AD81667	WGS_CCP	Discrete - 6	5/15/17	2210	27	1.04	3.73	< 9.70	< 0.199	2450	76.7	0.242	1.39	231	2.46	48.3	7.73	0.747	70.7	< 59.8	< 0.997	410	< 49.9	6.46	6290	< 26.1	< 100	2960	99.8
er 2 a	AD81668	WGS_CCP	Discrete - 7	5/15/17	2590	16.6	< 1.08	1.55	< 10.60	< 0.216	1860	< 2.23	< 0.216	9.60	139	1.85	27.8	5.88	0.822	95.5	< 64.9	1.22	578	< 54.1	7.65	568	< 29.2	< 100	484	140
S(1 p	AD81669	WGS_CCP	Discrete - 8	5/15/17	5370	61.9	< 0.95	7.49	< 9.71	< 0.189	8910	60.2	0.367	2.05	886	3.62	175	13.5	2.49	42.7	107	< 0.947	2100	< 47.3	13.2	12900	< 27.3	< 100	9310	137
i ii	AD81670	WGS_CCP	Discrete - 9	5/15/17	2000	8.36	< 1.10	1.67	20.70	< 0.220	1640	4.65	< 0.22	20.40	140	2.72	21.7	10.3	0.699	34.6	< 66	< 1.1	891	< 55	6.2	404	< 28	< 100	200	277
SA L	AD81671	WGS_CCP	Discrete - 10	5/15/17	3210	+ +	< 1.08	3.82	19.70	< 0.216	8190	5.41	0.312	13.20	543	3.03	105		1.42	46.7	76	3.5		< 53.9	10.7	100,100,000	< 28.8	27 1271.02	1850	292
H REI	AD81672	WGS_CCP	Discrete - 11	5/15/17	853	-	< 1.04	2.11	< 10.40	< 0.207	1180	15.6	< 2.07	30.10	81.8	0.916	8.92		0.539		< 62.1			< 51.8	1.95	1150	< 28.5	< 100	495	103
DISC	AD81673	WGS_CCP	Discrete - 12	5/15/17	1630	7.47	< 1.07	2.95	< 10.90	< 0.213	255	13.3	0.42	< 3.66	935	7.32	106	27.9	1.26	56.6		1.19		< 53.3	1.27	299	< 30.9	< 100	169	1380
1 -	AD81674	WGS_CCP	Discrete - 13	5/15/17	2630	14.6	3.21	13.10	14.40	< 0.235	27800	< 7.18	1.81	26.50	2080	2.63	875	99.5	5.5	159	346	6.52	1200	< 58.6	26.7	20000	< 26.7	< 100	2890	158
1	AD81675	WGS_CCP	Discrete - 14	5/15/17	1870	_	< 1.05	1.34	< 11.10	< 0.209	466	18.1	< 0.209	< 4.00	21.5	2.7	< 6.28	1.99	0.488	19.3			82.1	< 52.3	1.03	255	< 30.3	< 100	573	43
				Mean	3229	23.46	1.23	6.08	13.88	0.22	5626.79	44.35	0.55	10.31	649.02	3.26	145.46	18.62	1.66	61.38	92.60	2.46	1494.86	53.99	9.88	5789.00	28.40	100.00	3128.50	241.74
cision	AD81676	WGS_CCP	WGS U2 1-ISM-1	5/15/17	3900	19.1	1.76	11.20	< 10.90	< 0.216	12300	46.2	0.923	27.60	1270	2.75	263	49.4	2.64	55.3	155	3.3	2520	< 53.9	17	14300	< 27.8	< 100	9580	143
s - De	AD81677	WGS_CCP	WGS U2 1-ISM-2	5/15/17	4050	23.6	2.68	18.50	< 10.80	< 0.228	25100	49.7	1.39	29.60	1620	3.19	426	79.5	4.28	60.5	250	5.09	2880	< 56.9	26.5	16300	< 27.4	< 100	13800	116
3 Sc mple:	AD81678	WGS_CCP	WGS U2 1-ISM-3	5/15/17	5080	25.2	1.98	12.70	13.90	< 0.259	15600	132	1.03	27.50	1770	3.41	263	28.1	2.68	44.3	161	3.1	2700	< 64.8	14.4	16400	< 34.7	< 100	5020	185
Sa					!	<u>ļ į</u>			<u>l</u>		!	<u>į</u>					<u> </u>			<u>. i</u>	i					ļ .				

TABLE 1 - SOIL ANALYTICAL RESULTS

	0.00													,																
	santee coope			3X Background	6076	122.6	1.4	12.2	0	0.000	72.2	15.3	0.4	0	2471.3	8.2	254.8	12.7	3	78.4	167.4	0	3859.1	0	2.7	13.9	47.7	0	131.5	231.6
	"santee coope	r Analytic	cal Services	EPA Eco.Soil	-	-	18	330	7.5	0.360	- 2	22	13	32	- 60	11	520	220	38	122	52 J	0.52	220	525	96	12	1721É	1726	2.0	225
				EPA Eco Sed	25000	230	9.8	20	0	1.000	255	255	50	500	20000	35.8	878	460	22.7	250	=	11	550	877	933	177	39	877		-
				EPA Worker Soil	110000	-	3	2.2E+04	2.3E+04	9300.000	:==		1.9E+03	4.7E+03	8.2E+04	8.2E+02	579	2.6E+03	6.4E+04	155	i= 1	580	1.8E+06	1 = 1	7.0E+04	in.	570	6.0E+05	-	6.0E+04
	Sample ID	Location Code	Description	Sample Date	Aluminum	Ammonia-N	Arsenic	Barlum	Baron	Cadmium	Calcium	Chloride	Cobalt	Fluoride	LO <u>I</u>	Lead	Magnesium	Manganese	Nickel	Phosphorus	Potassium	Selenium	SIIIca	Sodium	Strontium	Sulfate	Suffide	Sulfite	Sulfur	Titanium
					mg/kg	mg/kg	mg/kg	mg/kg	mg#kg	mg/kg        mg/kg   I	mg/kg	mgkg	mg/kg	mg/kg	mgkg	mg/kg	mg/kg	   mg/kg 	l mg/kg l											
					SW846 6010D	EPA 350.1	SW846 6010D	SW846 6010D	SW646 6010D	SW646 6010D	SW846 6010D	SW846 9056A	SW846 6010D	SW846 9056A	SW846 6010D	SW846 6010D	SW846 6010D	SW646 6010D	SW646 6010D	EPA 365.4	SW646 6010D	SW646 6010D	SW846 6010C	SW846 6010D	SW846 6010D	SW846 9056A	EPA 9034	SW4500_S03_B	SW646 6010D	SW846 6020B
sion	AD81679	WGS_CCP	WGS U2 2-ISM-1	5/15/17	3810	33.7	3,02	11.60	15.10	< 0.199	22000	158.00	0.93	25.60	1180.00	3.09	254.00	35.30	2.71	60.10	166.00	3,64	1850.00	< 49.80	29.00	13600.00	< 27.80	< 100.00	14500.00	134.00
posite Decir t 2	AD81680	WGS_CCP	WGS U2 2-ISM-2	5/15/17	3100	22.3	3.27	9.36	20.20	< 0.225	34000	201.00	1.01	28.80	1160.00	2.32	214.00	32.90	2.26	71.20	144.00	3.59	874.00	< 56.90	31.90	13800.00	< 31.80	< 100.00	15000.00	176.00
Cam ples-	AD81681	WGS_CCP	WGS U2 2-ISM-3	5/15/17	2090	48.5	1.32	7.77	17.70	< 0.194	18000	332.00	0.61	28.80	659.00	1.82	140.00	20.60	1.40	58.80	93.20	2.25	1730.00	< 50.10	25.30	13600.00	< 26.10	< 100.00	14100.00	155.00
Sam				Mean		ļ .	2.54								!						į		į							
sion	AD81682	WGS_CCP	WGS U2 3-ISM-1	5/15/17	2430	41	< 1.15	5.64	< 11.00	< 0.221	17000	78.10	0.80	28.80	749.00	1.95	148.00	19.60	1.69	41.90	106.00	2.62	2250.00	< 57.50	36.60	17200.00	< 28.20	< 100.00	18600.00	212.00
posit - Dec it 3	AD81683	WGS_CCP	WGS U2 3-ISM-2	5/15/17	2470	29.7	< 1.14	3.12	28.80	< 0.220	4910	89.20	0.46	30.90	280.00	2.54	98.70	8.29	0.61	62.60	< 68.50	3.05	1860.00	< 57.10	21.40	11300.00	< 29.50	< 100.00	7280.00	156.00
3 Corr ples	AD81684	WGS_CCP	WGS U2 3-ISM-3	5/15/17	2160	28.5	< 1.11	4.45	16.40	< 0.216	6350	86.10	0.60	20.50	470.00	1.89	89.30	12.60	0.91	49.70	68.40	1.45	2200.00	< 55.70	28.10	11400.00	< 26.10	< 100.00	12800.00	144.00
Sam						<u> </u>																	į				i			
te Sision	AD81685	WGS_CCP	WGS U2 4-ISM-1	5/15/17	3100	32.1	1,63	7.73	16.80	< 0.239	14500	166,00	0.63	21.40	744.00	2.66	158.00	25.40	1.55	86.80	101.00	2.15	1770.00	< 57.80	21.60	12300,00	< 32.30	< 100.00	7650.00	173.00
nposi - Det	AD81686	WGS_CCP	WGS U2 4-ISM-2	5/15/17	2620	19.3	1.29		21.20	< 0.226	10100	245.00	0.52	4.13	698.00	1.65	97.00	12.10	1.11	50.30	< 68.10	1.39	2820.00	< 56.70	17.30	8640.00	< 30.90	< 100.00	8150.00	136.00
3 Car	AD81687	WGS_CCP	WGS U2 4-ISM-3	5/15/17	2760	22.1	1.49	6.04	21.90	< 0.222	8520	136.00	0.49	13.90	667.00	2.55	115.00	15.90	1.34	53.90	73.00	1.48	1600.00	< 55.70	17.50	13400.00	< 26.40	< 100,00	6170.00	111.00
Sai	WANTED THE STATE OF THE STATE O			etani ankada						100000000											- 1	CONT								<b>!!!</b>
ite	AD81688	WGS_CCP	WGS U2 5-ISM-1	5/15/17	2750	16.2	1.33	4.52	13.10	< 0.203	11500	104.00	0.48	11.80	681.00	2.56	124.00	21.40	1.37	55.60	80.80	1.86	1430.00	< 51.60	18.50	18500.00	< 27.00	200.00	9250.00	117.00
mpos s - De nit 5	AD81689	WGS_CCP	WGS U2 5-ISM-2	5/15/17	2200	15.1	< 1.06	4.57	15.10	< 0.225	19300	68.40	0.51	18.30	643.00	2.07	151.00	27.20	1.40	41.20	79.30	1.91	1610.00	< 53.10	20.40	25000,00	< 26.40	< 100.00	8060.00	156.00
3 Cal	AD81690	WGS_CCP	WGS U2 5-ISM-3	5/15/17	2150	17.4	< 1.03	5.04	13.80	< 0.204	19600	50.20	0.55	17.80	637.00	2.14	155.00	29.80	1.44	50.80	82.50	2.19	2110.00	< 51.70	22.60	25700.00	< 27.00	< 100.00	12500.00	143.00
Sa				1	i	i				-	i	i	2000				i				i		<u> </u>	i		i	i			-
site ecisior	AD81691	WGS_CCP	WGS U2 6-ISM-1	5/15/17	1980	i	< 1.04	5.11	< 10.80	< 0.198	8600	47.40	0.38	11.90	390.00	1.92	98.70	14.10	0.83	67.70		1.25	1770.00	< 52.00	15.10	9360.00	< 28.00		6310.00	112.00
mpos s - De init 6	AD81692	WGS_CCP	WGS U2 6-ISM-2	5/15/17	2180	<del>i                                     </del>	< 1.13	Orania de la constanta de la c	10.90	< 0.222	47000	25.40	0.68	19.70	985.00	2.19	341.00	51.70	2.32	49.70	159.00	3.66	2200.00	< 56.40	28.40	26900.00	< 27.10		16100.00	143.00
3 CG m per	AD81693	WGS_CCP	WGS U2 6-ISM-3	5/15/17	2730	20.5	1.28	19.30	11.50	< 0.230	9670	31.10	0.68	15.80	1070.00	2.42	125.00	19.90	1.95	85.10	139.00	1.67	1480.00	< 57.70	25.70	17000.00	< 30.70	< 100.00	8570.00	192.00
Sa						!			7		!						!!!				Į.						!!		!	

TABLE 1 - SOIL ANALYTICAL RESULTS

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	santee cooper			3X Background	6076	122.6	1.4	12.2	0	0.000	72.2	15.3	0.4	0	2471.3	8.2	254.8	12.7	3	78.4	167.4	0	3859.1	0	2.7	13.9	47.7	0	131.5	231.6
	Santee Cooper	Analytic	al Services	EPA Eco.Soil	-	=	18	330	7.5	0.360	22	(2)	13	32	42	11	52E	220	38	720	#2 P	0.52	<u>120</u> 0	5145 -	96	###	922	<u> </u>	22	25
				EPA Eco Sed	25000	230	9.8	20		1.000	755	105	50	550	20000	35.8	177	460	22.7	255		11	750				39	675	-50	
				EPA Worker Soil	110000		3	2.2E+04	2.3E+04	9300.000	675		1.9E+03	4.7E+03	8.2E+04	8.2E+02	579	2.6E+03	6.4E+04		=	580	1.8E+06	in.	7.0E+04	i=.	570	6.0E+05		6.0E+04
	Sample ID	Location Code	Description	Sample Date	Aluminum	Ammonia-N	Arsenic	Barlum	Boron	Cadmlum	Calcium	Chloride	Cobalt	Fluoride	<u>6</u>	l Lead	Magneslum	Manganese	Nickel	Phosphorus	Potassium	Selenium	Silica	Sodium	Strontium	Sulfate	Suffide	Sulfite	Sulfur	Titanium
					mg/kg	mg/kg	mg√kg	mg/kg	mg&g	mg/kg        mg/kg	mg/kg	mgkg	mg/kg	mg/kg	mgkg	mg/kg   	mg/kg	 	mg/kg											
					SW846 6010D	EPA350.1	SW846 6010D	SW646 6010D	SW846 6010D	SW646 6010D	SW646 6010D	SW646 9056A	SW646 6010D	SW846 9056A	SW846 6010D	SW846 6010D	SW646 6010D	SW646 6010D	SW846 6010D	EPA 365.4	SW846 6010D	SW846 6010D	SW846 6010C	SW846 6010D	SW846 6010D	SW646 9056A	EPA 9034	SM4500_S03_B	SW646 6010D	SW646 6020B
sion	AD81694 v	WGS_CCP	WGS U27-ISM-1	5/15/17	1880	13.9	< 1.09	5.38	< 11.40	< 0.230	14900	35.60	0.46	15.80	577.00	1.80	119.00	19.40	1.19	53.40	71.20	1.89	1370.00	< 54.70	11.60	13000.00	< 30.10	< 100,00	5060.00	131,00
posite Deci t 7	AD81695	WGS_CCP	WGS U27-ISM-2	5/15/17	1820	18.8	< 0.972	4.39	10.60	< 0.198	12300	42.80	0.79	17.40	425.00	1.81	91,90	17.60	1.09	54.10	< 58.30	1.77	1270.00	< 48.60	13.20	14200.00	< 25.00	150.00	6530.00	189.00
Dies-	AD81696 V	WGS_CCP	WGS U27-ISM-3	5/15/17	1850	27.1	< 1.04	4.37	11.40	< 0.213	9910	38.40	0.68	16.10	537.00	1.81	98.30	22.00	1.12	47.40	< 62.60	1.80	1620.00	< 52.20	27.70	15900.00	< 27.50	< 100,00	10700.00	166.00
Sam																į.					į						į			
sion	AD81697	WGS_CCP	WGS U2 8-ISM-1	5/15/17	1420	35.8	< 1.12	5.19	< 10.40	< 0.213	14100	23.10	0.80	19.40	519.00	1.43	105.00	29.70	1.23	58.70	68.00	1.60	1260.00	< 56.10	20.40	20600.00	< 27.60	< 100.00	8870.00	119.00
positi Deci	AD81698 V	WGS_CCP	WGS U2 8-ISM-2	5/15/17	1800	33.9	1.79	6.71	< 10.50	< 0.216	22600	13.00	0.59	13.50	629.00	1.75	171.00	25.30	1.56	62.20	112.00	2.22	674.00	< 51.90	30.70	18900.00	< 28.30	< 100.00	15500.00	110.00
S Com	AD81699 V	WGS_CCP	WGS U2 8-ISM-3	5/15/17	1040	24.7	< 1.03	2.21	10.40	< 0.202	3950	18.40	0.30	10.30	198.00	1.23	48.00	10.20	0.45	44.90	< 61.60 <	: 1.03	2010.00	< 51.40	12.90	8770.00	< 28.80	240.00	3720.00	119.00
Sam					į	<u>i</u>										į											į			<u> </u>
ision	AD81700 N	WGS_CCP	WGS U2 9-ISM-1	5/15/17	2500	21	1.21	7.48	< 10.40	< 0.220	16800	17.20	0.52	16.90	646.00	2.43	136.00	30.60	1.57	65.30	87.20	1.56	1380.00	< 55.00	28.00	13700.00	< 28.90	< 100.00	20600.00	154.00
posit - Dec IIt 9	AD81701 \	WGS_CCP	WGS U2 9-ISM-2	5/15/17	1410	16.2	1.39	5.32	< 10.10	< 0.205	11200	20.80	0.35	12.60	496.00	1.61	104.00	20.30	1.08	65.50	67.90	1.32	774.00	< 51.20	11.80	6650.00	< 27.00	180.00	6320.00	165.00
Des Ur	AD81702	WGS_CCP	WGS U2 9-ISM-3	5/15/17	2020	17.2	1.11	6.76	< 10.60	< 0.214	15400	23.00	0.46	14.80	534.00	2.31	144.00	33.60	1.46	77.90	79.40	2.88	1300.00	< 53.50	29.10	13400.00	< 25.60	< 100.00	20900.00	169.00
San																					ŀ						1			1
cision		WGS_CCP	WGS U2 10-ISM-1	5/15/17	2730	41.3	1.57	8.39	< 10.80	< 0.209	34700	17.30	1.01	14.80	1140.00	3.53	279.00	44.30	2.92	59.90	144.00	2.77	1290.00	< 52.20	23.60	12400.00	< 27.60	< 100.00	16100.00	267.00
nposii - Dec	AD81704 \	WGS_CCP	WGS U2 10-ISM-2	5/15/17	2400	22.3	1.54	8.77	< 10.10	< 0.091	40000	16.90	0.86	17.50	1050.00	2.54	334.00	46.20	2.60	60.30	145.00	3.49	1180.00	< 53.00	25.60	13000.00	< 30.00	< 100.00	19800.00	158.00
3 Cor nples Un	AD81705	WGS_CCP	WGS U2 10-ISM-3	5/15/17	1620	10.3	1.57	10.0	< 10.30	< 0.223	23700	15.60	0.81	25.40	923.00	2.91	252.00	38.60	2.31	64.90	144.00	2.62	1280.00	< 55.80	30.80	14400.00	< 30.90	120.00	21500.00	149.00
Sar																											ļ			1
cision	AD81706	WGS_CCP	WGS U2 11-ISM-1	5/15/17	1610	19.2	1.48	8.37	< 10.60	< 0.224	33700	21.00	0.84	21.50	1080.00	2.57	281.00	29.00	2.45	97.10	143.00	2.07	2530.00	< 55.90	61.50	16400.00	< 29.70	< 100.00	52800.00	133.00
nposi - Det	AD81707 \	WGS_CCP	WGS U2 11-ISM-2	5/15/17	1610	24.2	< 1.05	4.76	< 10.60	< 0.210	12800	7.81	0.44	15.90	582.00	2.71	138.00	12.30	1.40	68.30	75.40 <	: 1.07	1120.00	< 52.50	8.83	8610.00	< 29.50	< 100.00	3950.00	136.00
3 Cal mples Ur.	AD81708 V	WGS_CCP	WGS U2 11-ISM-3	5/15/17	1790	26.6	< 1.13	6.7	11.40	< 0.225	8690	15.00	0.68	23.30	729.00	2.80	131.00	14.10	1.99	111.00	81.90 <	: 1.17	1140.00	< 56.40	18.80	6650.00	< 31.90	< 100.00	8080.00	141.00
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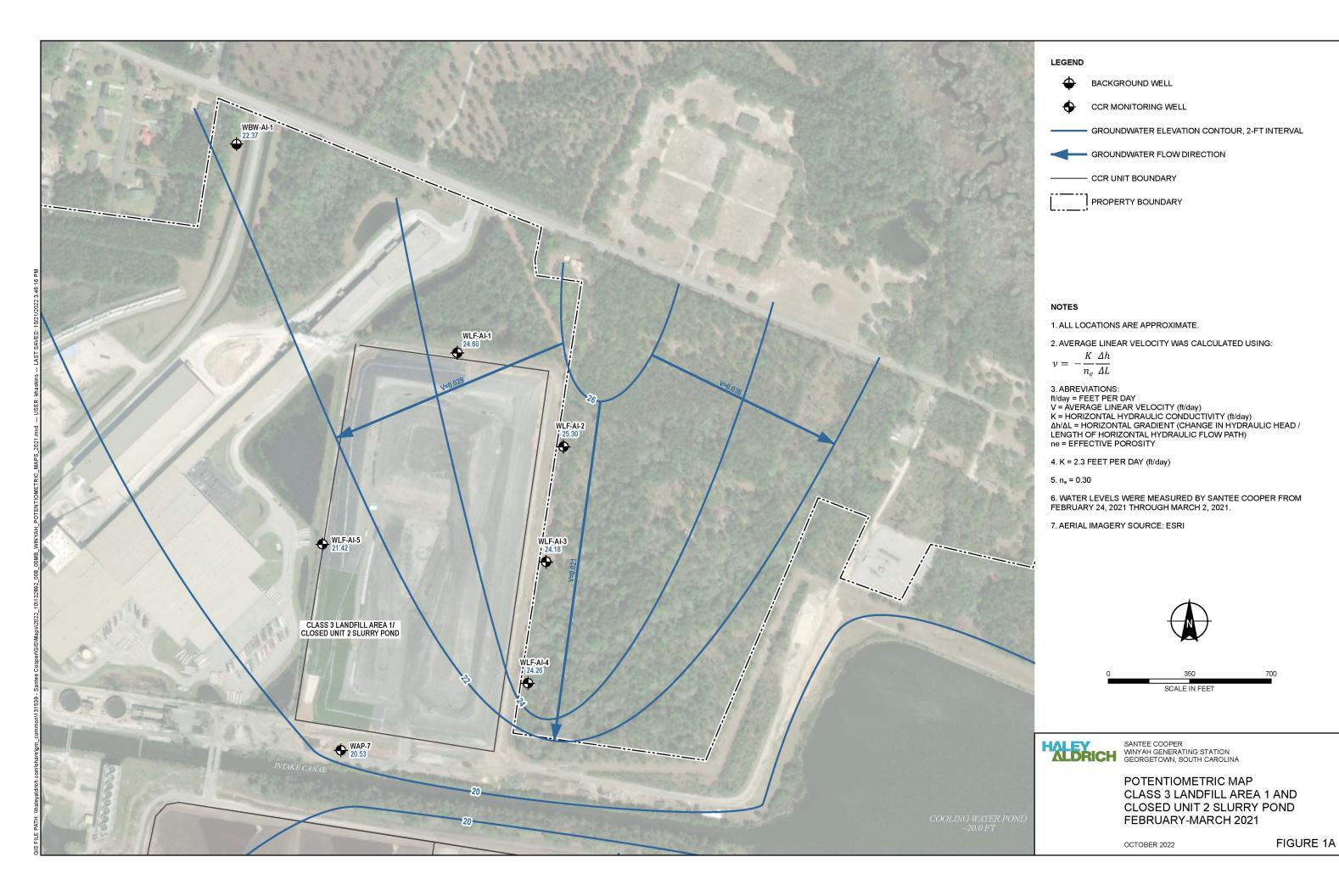
# TABLE 1 - SOIL ANALYTICAL RESULTS

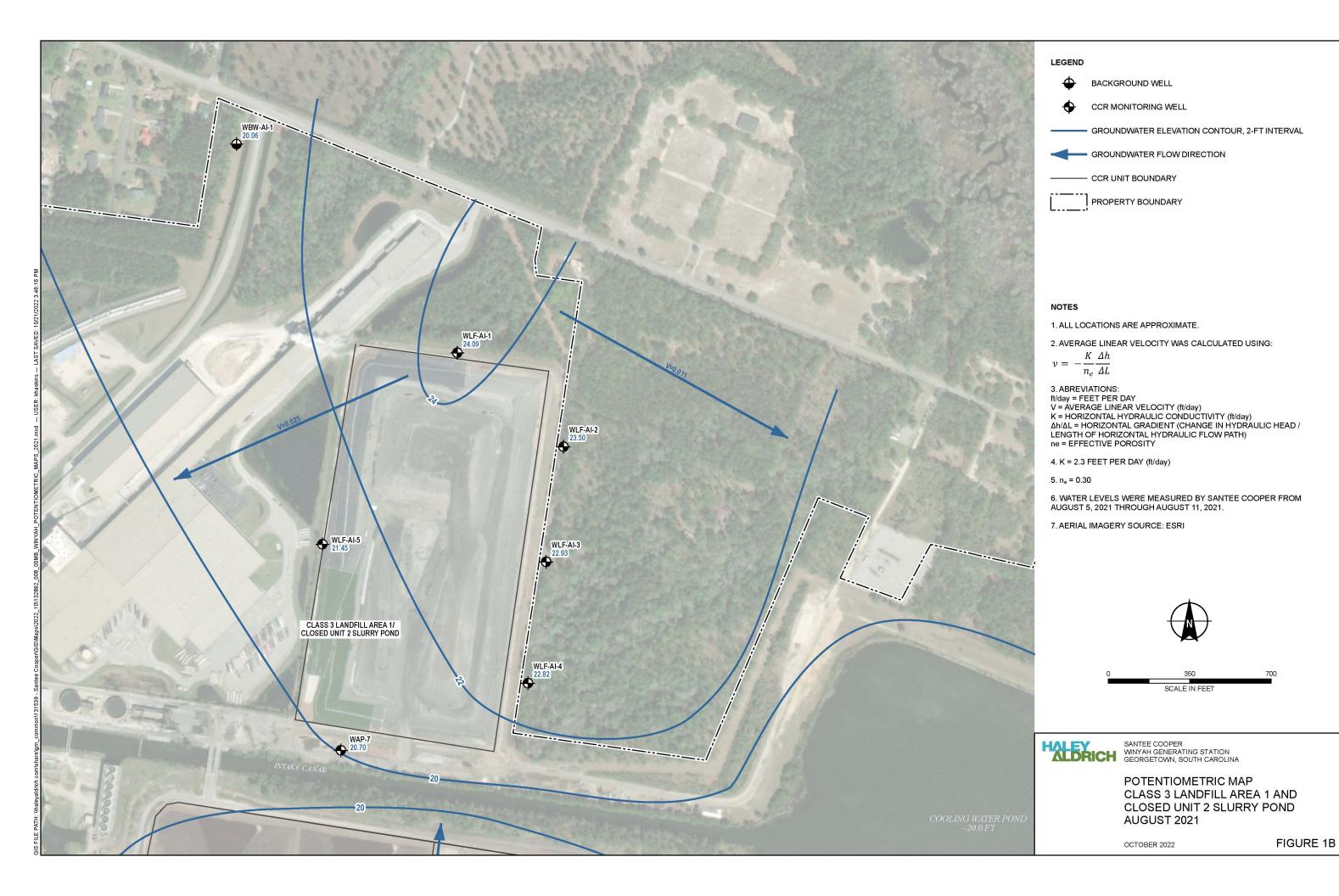
	Sa.			3X Background	6076	120 C		12.2	T	0.000	10 10 10 10 10	The state of the s	0.4		2471.3	Carlotte Street Street Street Street	254.0			78.4	167,4		3859.1		2.7	13.9	47.7		131.5	231.6
	santee cooper	Analytic	al Services	EPA Eco.Soil	5076	122.6	1.4	12.2	7.5		72.2	15.3	0.4	00	2411.3	8.2	254.8	12.7			107.4	0.50		.0	96	13.9	41.1	U	131.3	-
		Andiyiic	ar services	EPA Eco Sed	-	-	18	330	7.5	0.360	3.22	122		32		11	>==	220	38	-	)=	0.52	220	3=		3=2		#EE		
				EPA Worker Soil	25000	230	9.8	20		1.000	255	205	50	550	20000	35.8	675	460	22.7	- 12	-	11	77.0	- 17	- 17		39	977		
					110000		3	2.2E+04	2.3E+04	9300.000			1.9E+03	4.7E+03	8.2E+04	8.2E+02		2.6E+03	6.4E+04	لــــــــــــــــــــــــــــــــــــــ		580	1.8E+06		7.0E+04	LJ		6.0E+05		6.0E+04
	Sample ID	Location Code	Description	Sample Date	Aluminum	Ammonia-N	Arsenic	Barlum	Baron	Cadmium	Calcium	Chloride	Cobalt	Fluoride	Iron	Fead	Magnesium	Manganese	Nickel	Phosphorus	Potassium	Selenium	Silica	Sodium	Strontium	Sulfate	Sulfide	Suffite	Sulfur	Titanium
					mg/kg	l mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mgAkg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mgkg	mg/kg	mg/kg	mgkg	mg/kg	mg/kg	mg/kg	mg/kg
					SW646 6010D	EPA 350.1	SW846 6010D	SW646 6010D	SW846 6010D	SW846 6010D	SW846 6010D	SW846 9056A	SW846 6010D	SW846 9056A	SW646 6010D	SW646 6010D	SW646 6010D	SW846 6010D	SW646 5010D	EPA 365.4	SW846 6010D	SW646 5010D	SW846 6010C	SW646 6010D	SW846 6010D	SW846 9056A	EPA 9034	SM4500_S03_B	SW846 6010D	SW646 6020B
sion	AD81709	WGS_CCP	WGS U2 12-ISM-1	5/15/17	1690	19.1	1.96	7.98	< 9.78	< 0.237	19100	13.30	0.82	20.90	1370.00	2.93	251.00	18.70	2.46	70.60	140.00	1,53	1030.00	< 59.20	11.20	11200.00	< 32.10	< 100.00	5830.00	134.00
posite Deci	AD81710	WGS_CCP	WGS U2 12-ISM-2	5/15/17	2060	19.8	< 1.08	5.46	< 10.90	< 0.215	14900	18.70	0.58	22.40	731.00	2.82	197.00	50.80	1.93	72.10	108.00	2.68	1070.00	< 53.80	11.00	13200.00	< 30.00	< 100.00	7720.00	181.00
Ples- Unit	AD81711	WGS_CCP	WGS U2 12-ISM-3	5/15/17	1750	19.9	1.07	4.77	< 10.30	< 0.197	12900	12.40	0.45	18.00	589.00	2.56	148.00	27.10	1.41	52.10	70.50	2.14	1280.00	< 49.30	20.80	14400.00	< 26.20	< 100.00	14200.00	162.00
Sam									i												į			į			į			
sion	AD81712	WGS_CCP	WGS U2 13-ISM-1	5/15/17	2630	19.4	1.51	5.86	< 10.40	< 0.230	16400	24.00	0.58	22.90	840.00	2.91	182.00	28.70	1.93	74.00	106.00	2.43	1600.00	< 57.50	31.60	16000.00	< 28.20	< 100.00	25400.00	147.00
positi Deci	AD81713	WGS_CCP	WGS U2 13-ISM-2	5/15/17	3870	24.1	2.35	7.47	11.30	< 0.198	15400	26.10	0.90	25.50	1020.00	3.18	227.00	41.20	3.04	95.20	128.00	4.85	977.00	< 49.60	8.11	11900.00	< 13.60	130.00	4480.00	131.00
S Corr ples	AD81714	WGS_CCP	WGS U2 13-ISM-3	5/15/17	2700	25	2.39	9.7	11.50	< 0.215	24800	20.70	1.17	20.30	1080.00	3.75	276.00	29.30	3.43	70.60	166.00	2.68	1200.00	< 53.90	13.20	14400.00	< 27.90	< 100.00	7730.00	138.00
Sam	Ĭ					į į														į	<u> </u>			į						
ision	AD81715	WGS_CCP	WGS U2 14-ISM-1	5/15/17	3070	24.2	3.27	11.2	< 10.10	< 0.214	21100	28.40	1.25	26.50	2830.00	3.92	371.00	40.90	3.96	99,90	213.00	2.35	1550.00	< 53.50	37.80	13400.00	< 25.80	< 100.00	30600.00	146.00
- Dec	AD81716	WGS_CCP	WGS U2 14-ISM-2	5/15/17	2080	22.7	1.37	7.98	< 10.20	< 0.216	35400	15.20	0.76	11.70	1170.00	2.06	248.00	34.10	2.38	92.10	133.00	3.05	1380.00	< 53.90	27.80	14700.00	< 27.30	< 100.00	20400.00	134.00
3 Corr ples Uni	AD81717	WGS_CCP	WGS U2 14-ISM-3	5/15/17	4850	22.3	2.57	12.4	< 10.80	< 0.208	27300	9.09	1.10	8.80	2720.00	2.57	363.00	30.40	3.41	65.00	180.00	3.09	1920.00	< 52.00	11.80	8850.00	< 25.30	< 100.00	5130.00	136.00
Sam				Mean	}		2.40														H									

TABLE 2 Additional Intrawell Statistical Analysis Summary Winyah Class 3 Landfill Area 1 Prepared: October 7, 2022

												Ir	ntra-well Analysis	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non- Detect	CCR MCL/RSL	Report Result Unit	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February / March 2022 Concentration (mg/L)	Detect?	Background Limit (Upper Prediction Limit) mg/L	Background Limit (Upper Prediction Limit) ug/L	SSI
	CCR Appendix-III	: Chloride (mg/L	(Background Va	ilue Date Rang	ge: October 19	95 - August 202	21)							
WAP-07	16/16	0%	2	NA	mg/L	Yes	No	Decrease	Non-parametric	97.3	Υ	1712.00	1712000	N
	CCR Appendix-III	: Chloride (mg/L	(Background Va	lue Date Rang	ge: May 2002	- August 2021)								
WAP-07	41/41	0%	- 1	NA	mg/L	Yes	Yes	Decrease	Non-parametric	97.3	Y	376.00	376000	N
	CCR Appendix-III	: Boron, Total (m	ıg/L) (Backgroun	d Value Date I	Range: June 2	013 - August 207	21)							
WAP-07	13/13	0%		NA	mg/L	No	No	Stable	Normal	2.37	Y	2.18	2184.65	Υ









LEGEND

BACKGROUND WELL



CCR MONITORING WELL



GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL



- CCR UNIT BOUNDARY



PROPERTY BOUNDARY

#### NOTES

- 1. ALL LOCATIONS ARE APPROXIMATE.
- 2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:

$$v = -\frac{K}{n_e} \frac{\Delta h}{\Delta L}$$

3. ABREVIATIONS:

3. ABREVIATIONS:
ft/day = FEET PER DAY
V = AVERAGE LINEAR VELOCITY (ft/day)
K = HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)
Δh/ΔL = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD /
LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
ne = EFFECTIVE POROSITY

4. K = 2.3 FEET PER DAY (ft/day)

 $5. n_e = 0.30$ 

- 6. WATER LEVELS WERE MEASURED BY SANTEE COOPER ON FEBRUARY 15, 2022.
- 7. SURFACE WATER POND (PSE) ELEVATIONS WERE MEASURED ON MARCH 3, 2022.
- 8. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.01 FT/DAY.
- 9. AERIAL IMAGERY SOURCE: ESRI





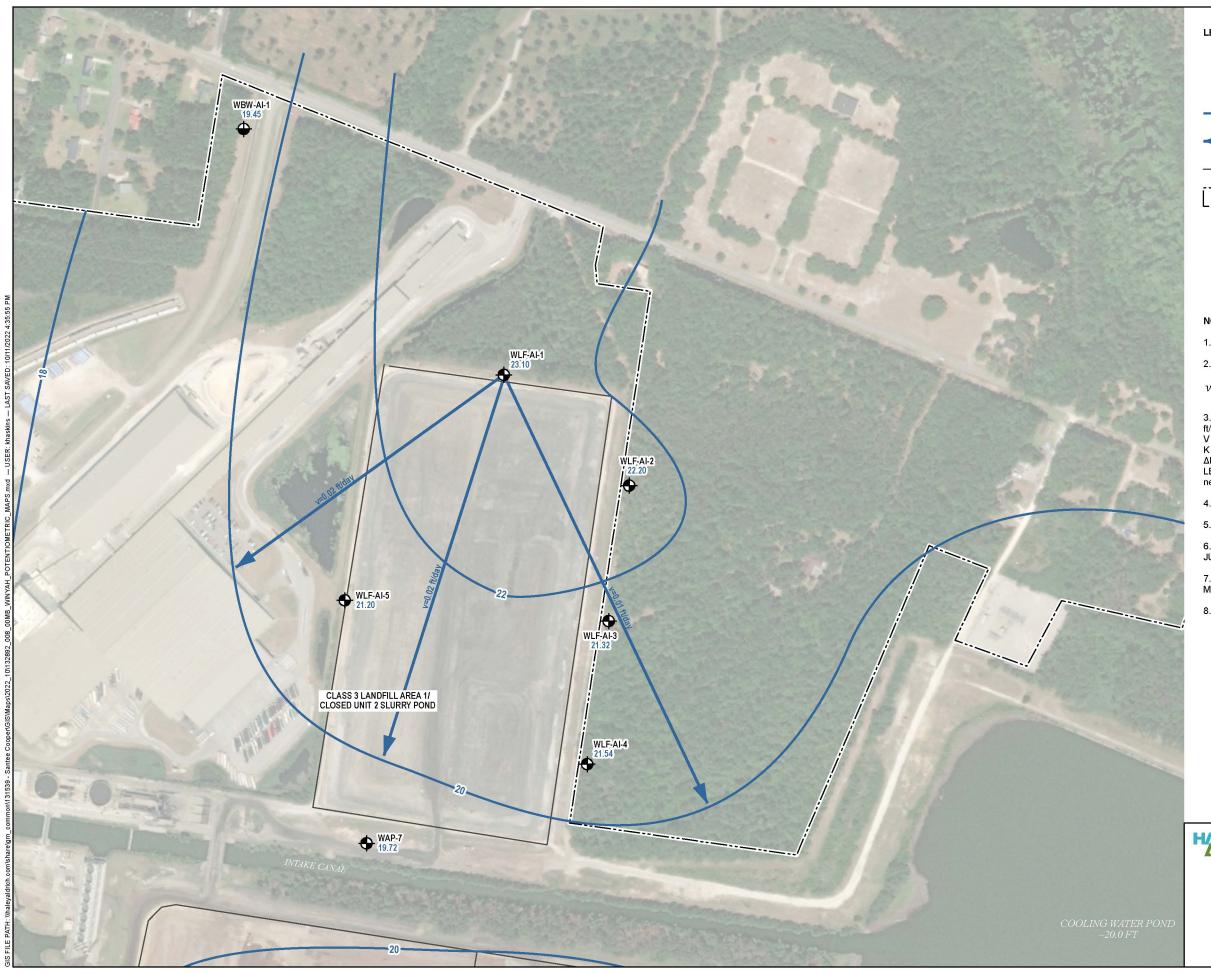


SANTEE COOPER WINYAH GENERATING STATION GEORGETOWN, SOUTH CAROLINA

POTENTIOMETRIC MAP CLASS 3 LANDFILL AREA 1 AND **CLOSED UNIT 2 SLURRY POND** FEBRUARY 15-16 2022

OCTOBER 2022

FIGURE 1C



#### LEGEND



BACKGROUND WELL



CCR MONITORING WELL



GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL



GROUNDWATER FLOW DIRECTION



PROPERTY BOUNDARY

- CCR UNIT BOUNDARY

#### NOTES

- 1. ALL LOCATIONS ARE APPROXIMATE.
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Δh/ΔL = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD /
LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
ne = EFFECTIVE POROSITY

4. K = 2.3 FEET PER DAY (ft/day)

 $5. n_e = 0.30$ 

- 6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 5 THROUGH JULY 6, 2022
- 7. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.02 FT/DAY.
- 8. AERIAL IMAGERY SOURCE: ESRI





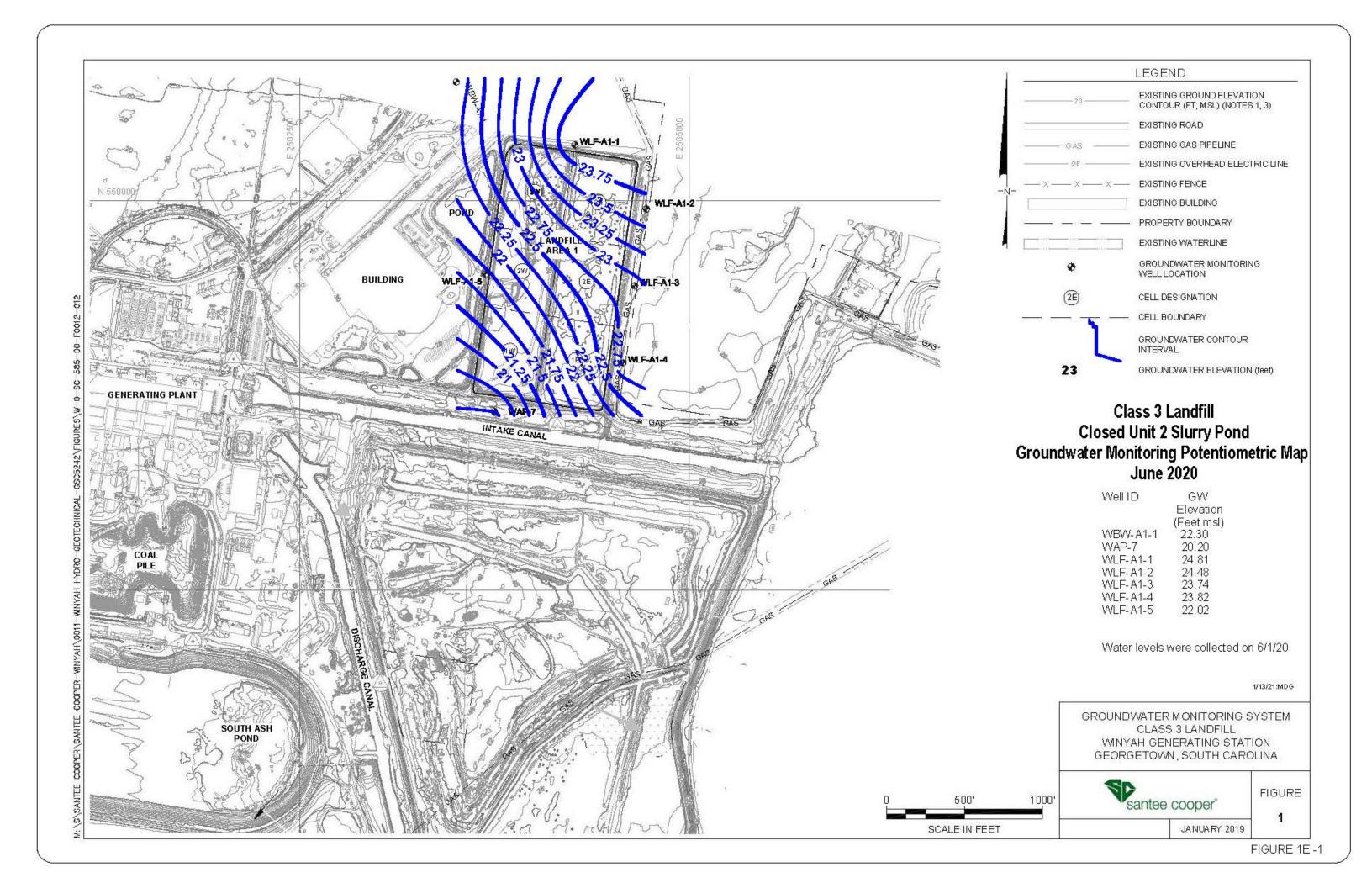


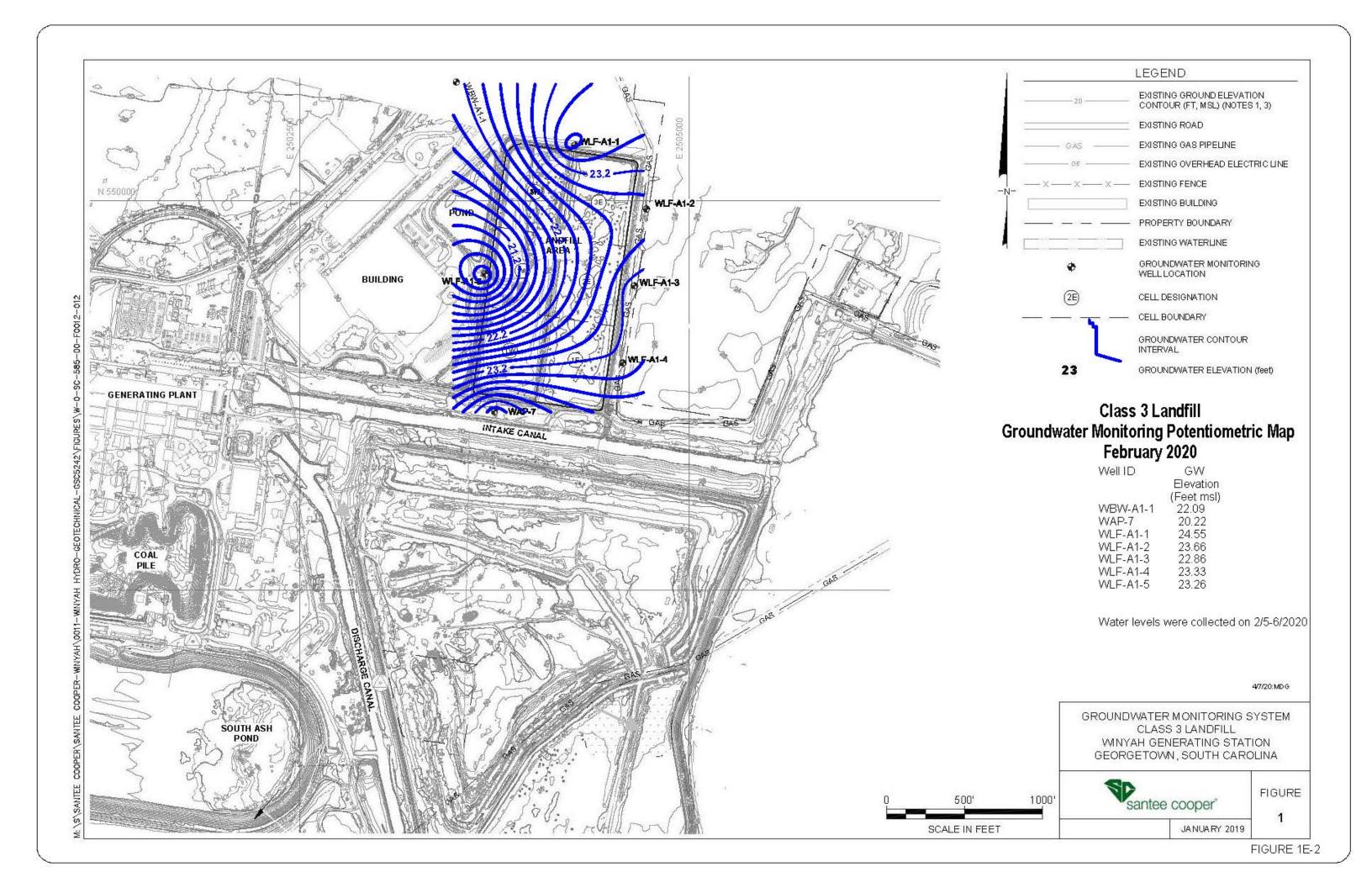
SANTEE COOPER WINYAH GENERATING STATION GEORGETOWN, SOUTH CAROLINA

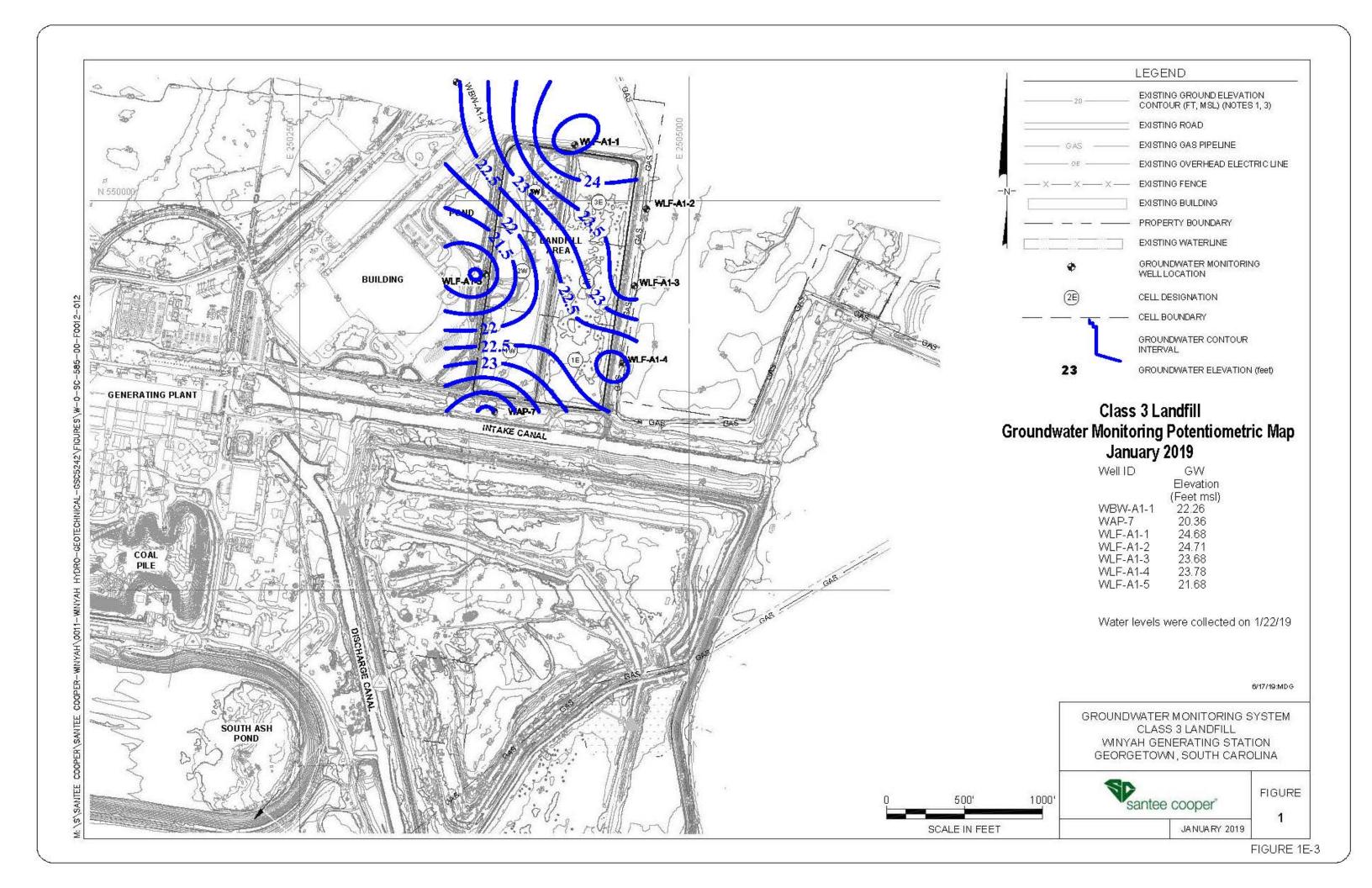
POTENTIOMETRIC MAP CLASS 3 LANDFILL AREA 1 AND CLOSED UNIT 2 SLURRY POND JULY 5-6, 2022

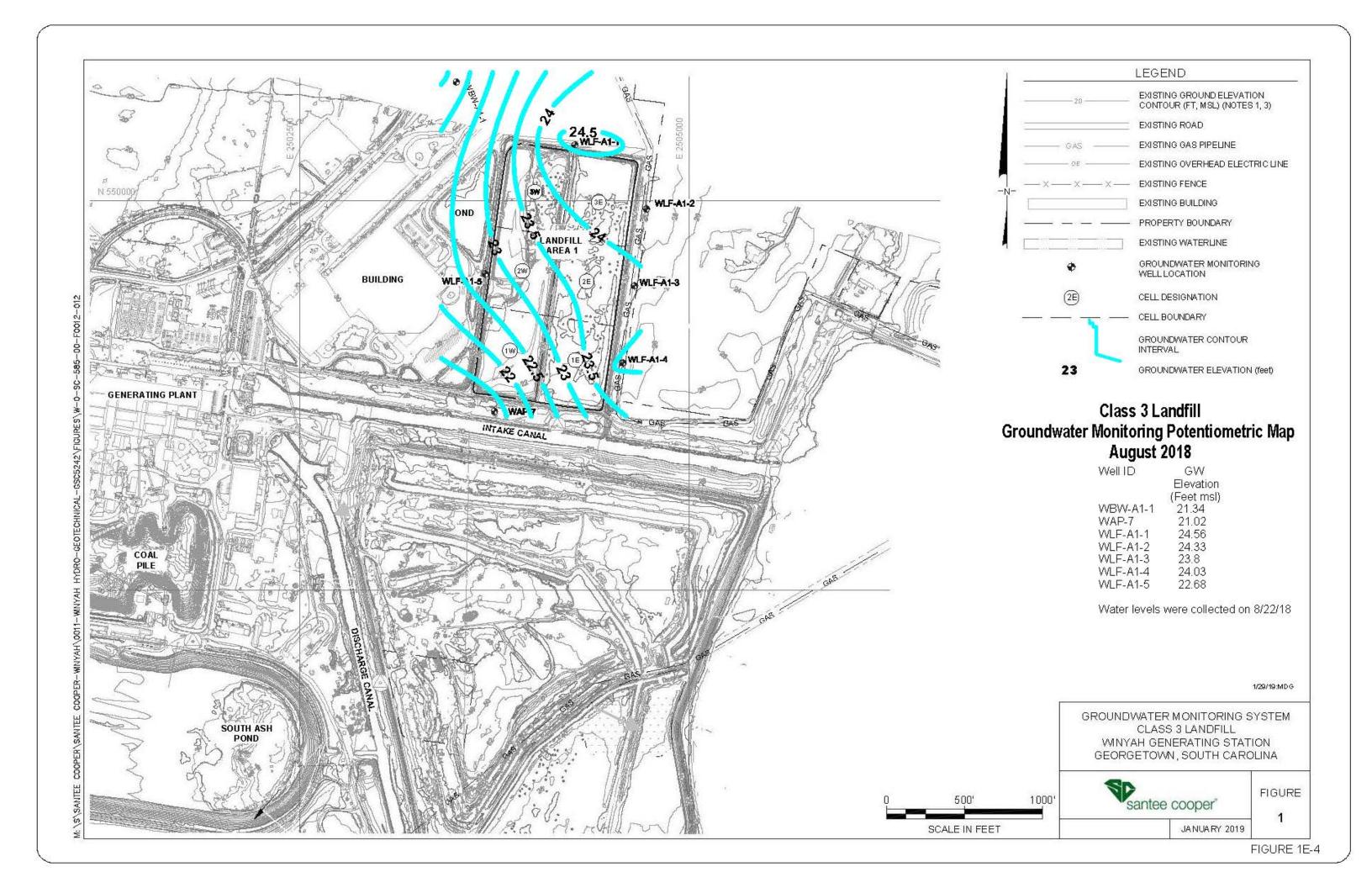
OCTOBER 2022

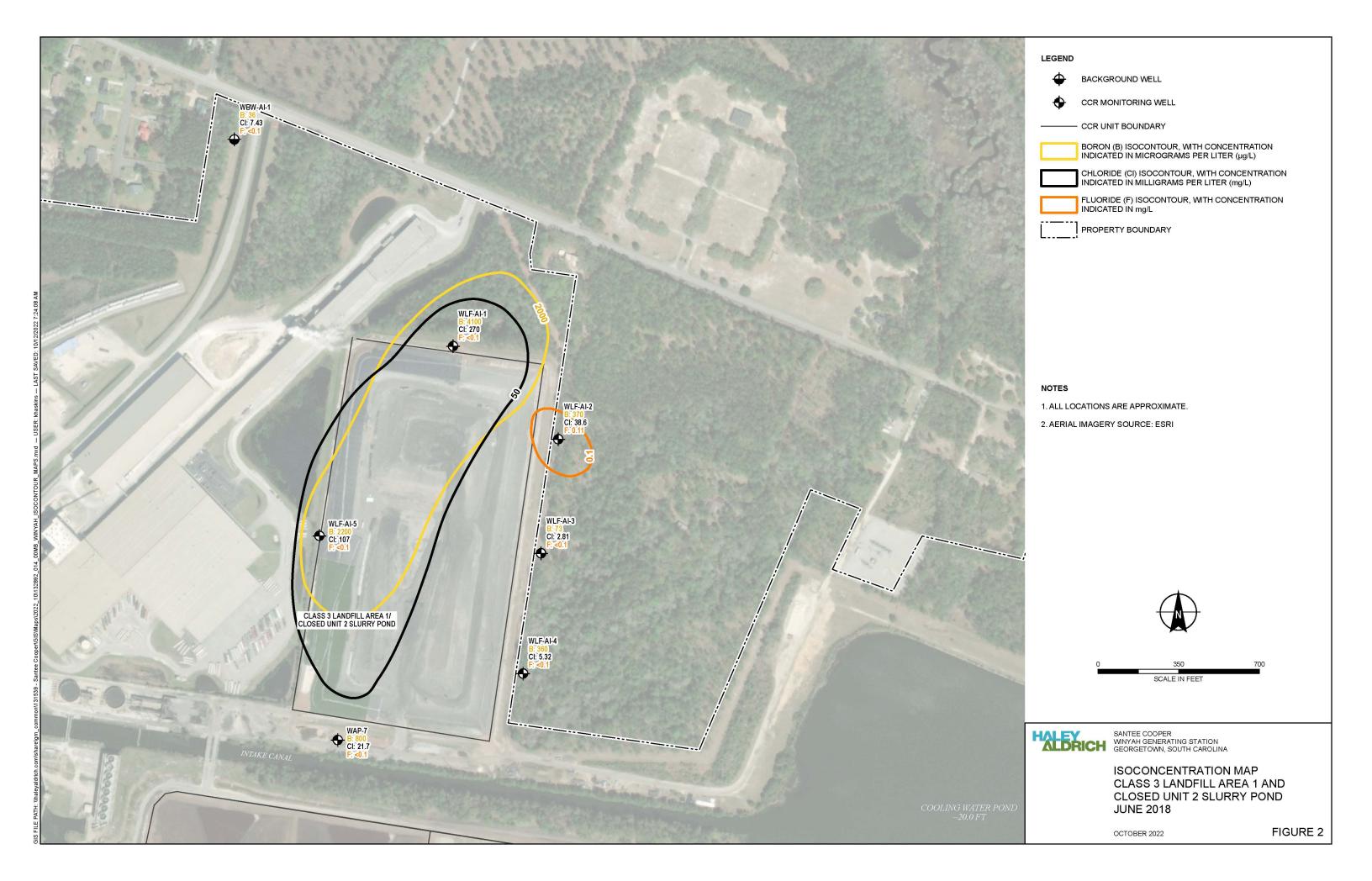
FIGURE 1D

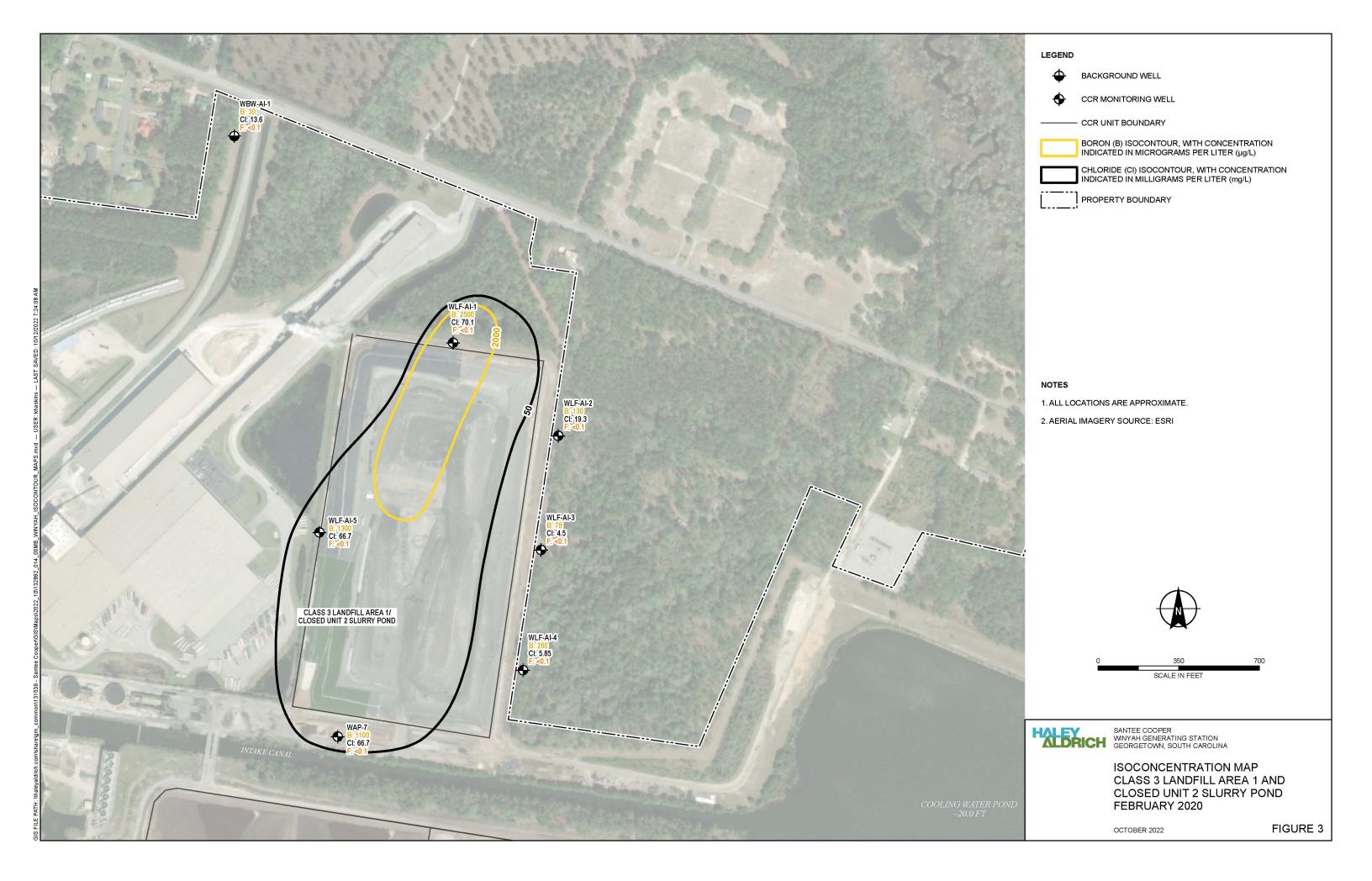


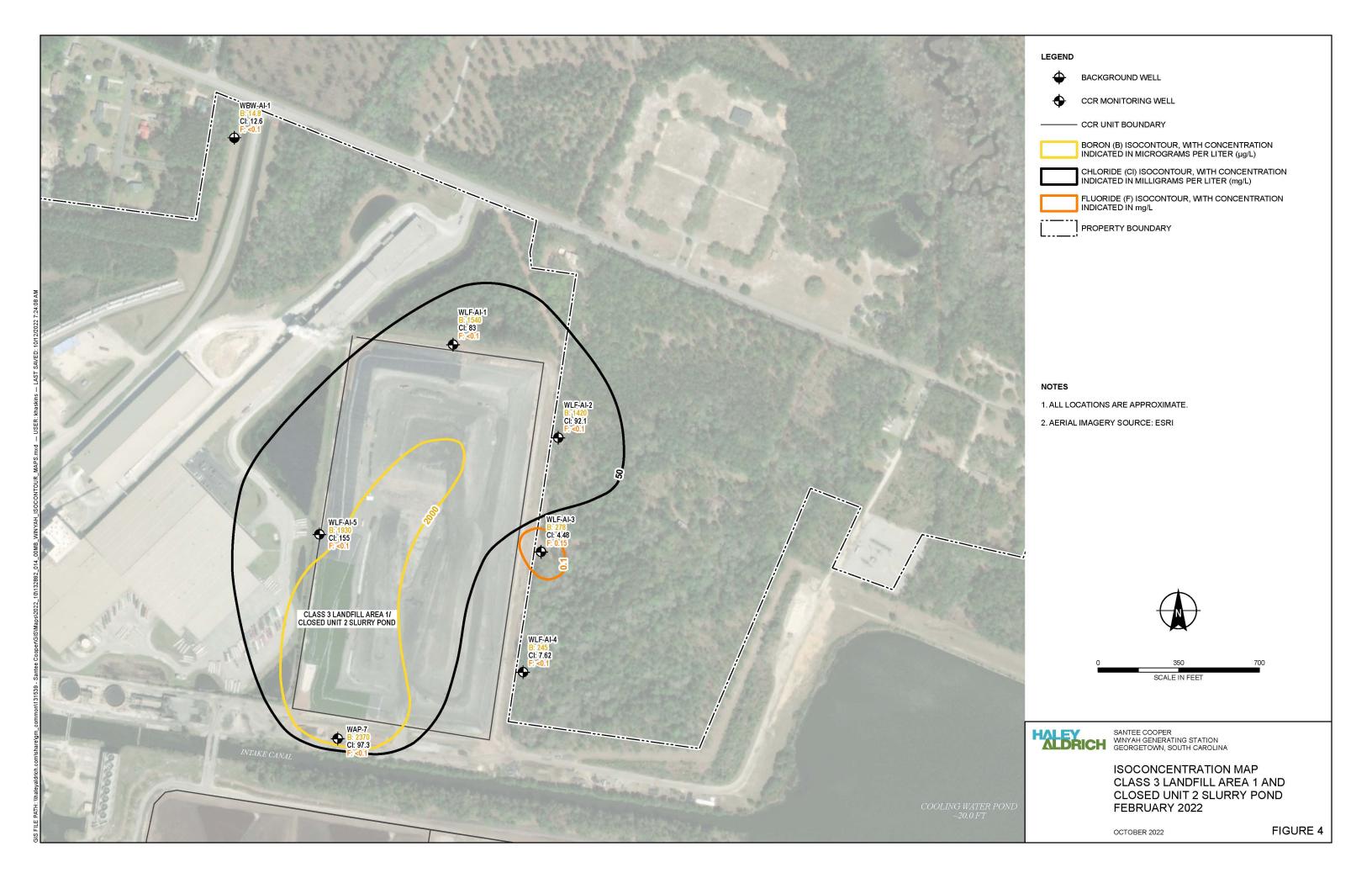


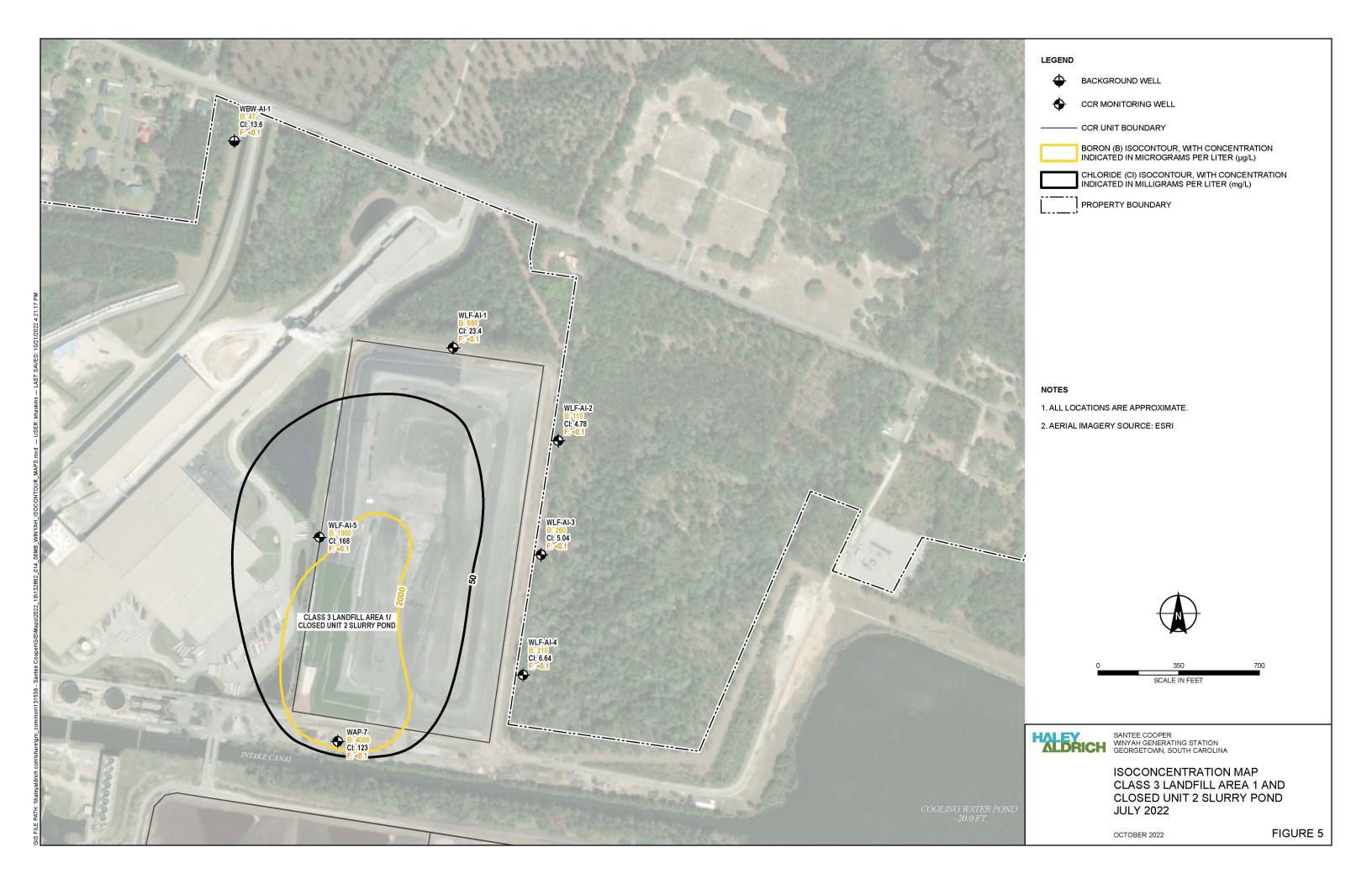












## APPENDIX A

Letter from SCDHEC Approving State Closure of Unit 2 Slurry Pond (August 2017)



August 01, 2017

Susan W Jackson PE SANTEE COOPER PO BOX 2946101 MONCKS CORNER SC 29461-6101

RE:

LOA-004716

SANTEE COOPER (SCPSA)

WINYAH GENERATING STATION (WGS)

**UNIT 2 SLURRY POND CLOSURE** 

CLOSURE SAMPLING EVALUATION

NPDES #SC0022471 Georgetown County

Dear Ms. Jackson:

This Department has completed the review of the confirmatory soil sampling for the above referenced closure of the Unit 2 Slurry Pond. The facility conducted sampling in May 2017. The sampling data shows that the remaining soils in the vicinity of the excavation exceed EPA's worker number of 3 mg/kg for Arsenic and the EPA's ecological risk number of 7.5 mg/kg for Boron and 0.52 mg/kg for Selenium, it also exceed a number of background results. The entire footprint of this Unit 2 Slurry Pond will be sealed under clean backfill and the CCR landfill to be built on-site. Based on the sampling data and the final disposition of the closure area, the closure activities may continue with backfilling and final grading provided the facility implement land use control(s) for the area of the Unit 2 Slurry Pond. Specifically, Santee Cooper must comply with the following conditions:

- The proposed language for the land use control(s) and the proposed method of implementation must be submitted to the Department for review and approval within sixty (60) days of receipt of this letter; and
- Documentation of the implementation of the land use control(s) must be submitted within ninety (90) days following the Department's approval of the land use control(s) language and methodology.
- Once closeout construction has begun, it shall be continuous until closeout is completed. Failure to properly proceed with the closeout or properly complete the closeout of this pond may result in enforcement action by this Agency. Closeout shall be completed by December 31, 2017. Any request for an extension shall be made in writing and approved by this office in writing. Justification of the need for the extension shall be included with the request.

LOA-004716 WINYAH GENERATING STATION (WGS) UNIT 2 SLURRY POND CLOSURE CLOSURE SAMPLING EVALUATION PAGE 2

Upon completion of closeout, the facility shall request a final inspection by the regional DHEC office.
The request will include a letter from a SC Registered Professional Engineer, stating that the
closeout has been completed in accordance with the approved closure plan. You may contact
Shauna F Stevens of the PEE DEE REGION BEHS MYRTLE BEACH at 927 Shine Ave, Myrtle Beach, SC
29577, 843-238-4378 to set up this inspection. Final closeout will be considered accomplished only
after written approval from the regional DHEC office.

If you have any questions, please contact me at 803-898-4236 or amickbm@dhec.sc.gov.

Sincerely,

Byron M Amick

Industrial Wastewater Permitting Section

Water Facilities Permitting Division

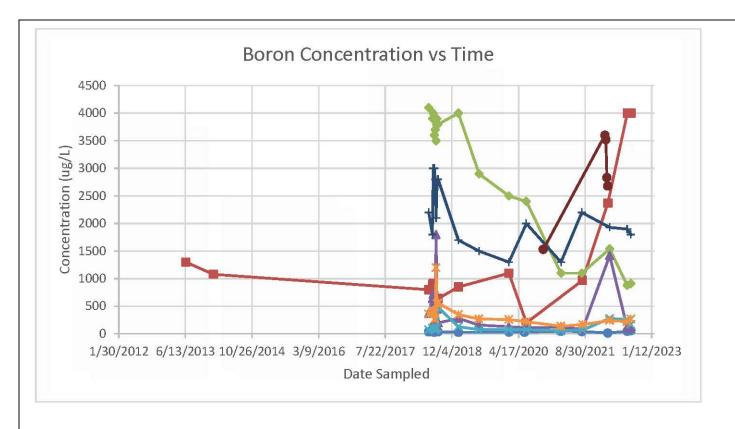
cc via e-mail: Denise Bunte-Bisnett, Santee Cooper

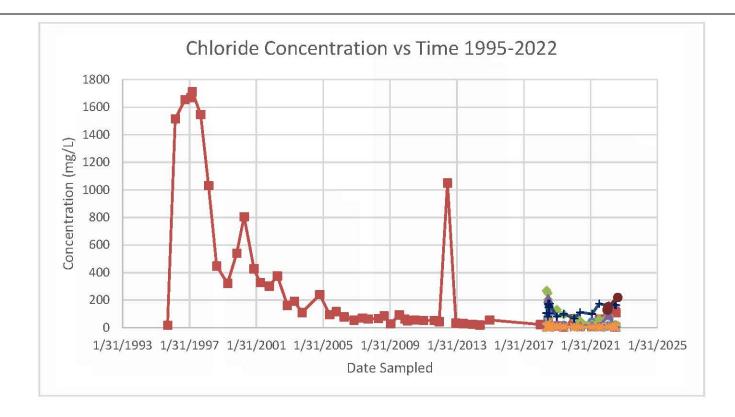
Shauna F Stevens, PEE DEE REGION BEHS MYRTLE BEACH

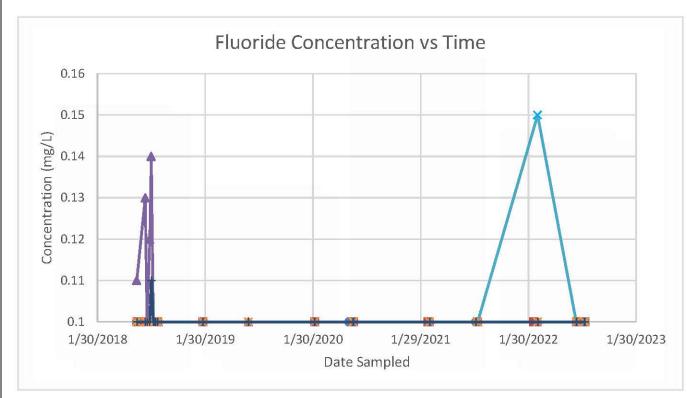
**BOW/WPC Enforcement** 

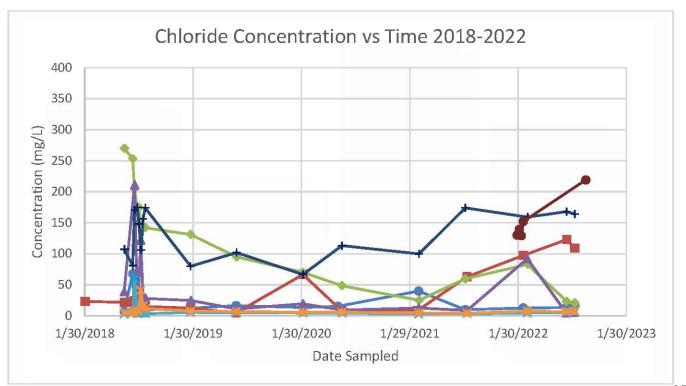
**APPENDIX B** 

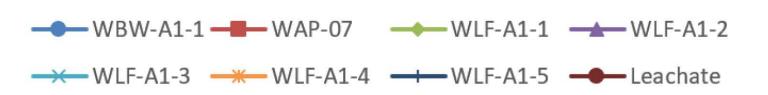
**Time-Series Plots** 







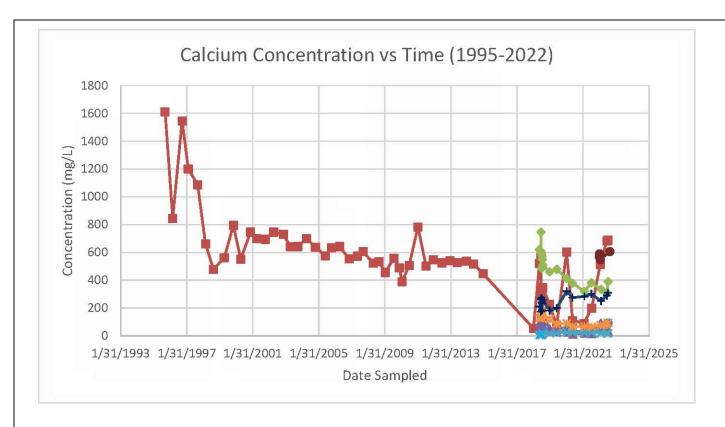


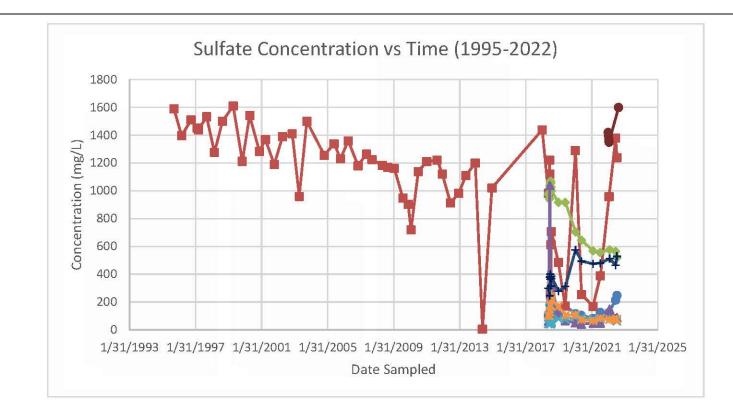


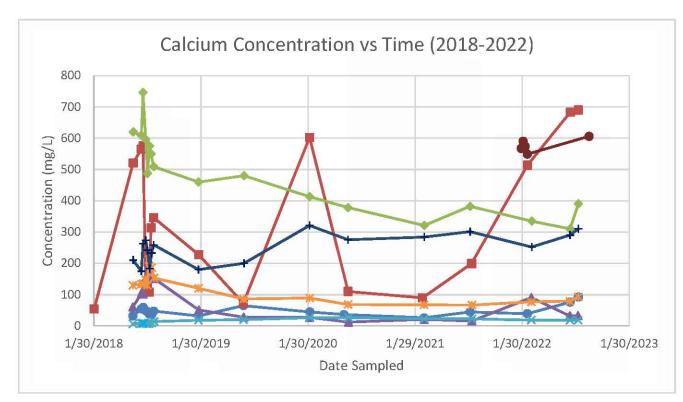
APPENDIX B-1

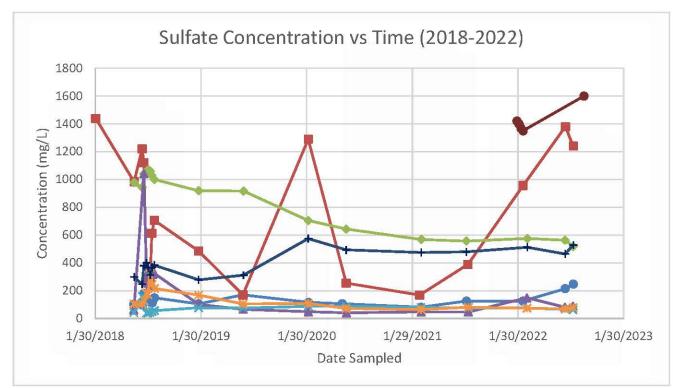
TIME-SERIES PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022











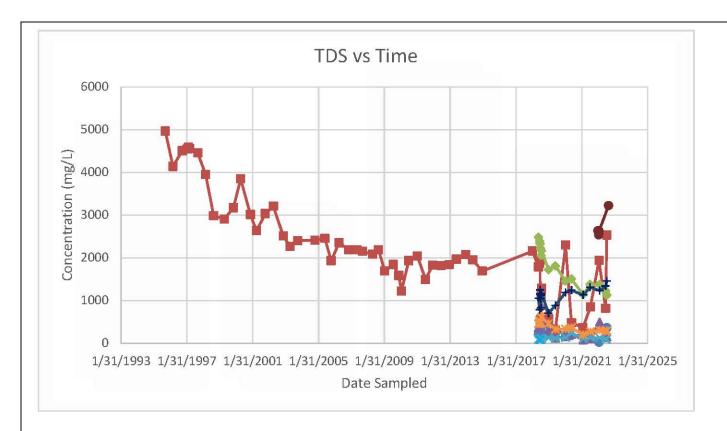
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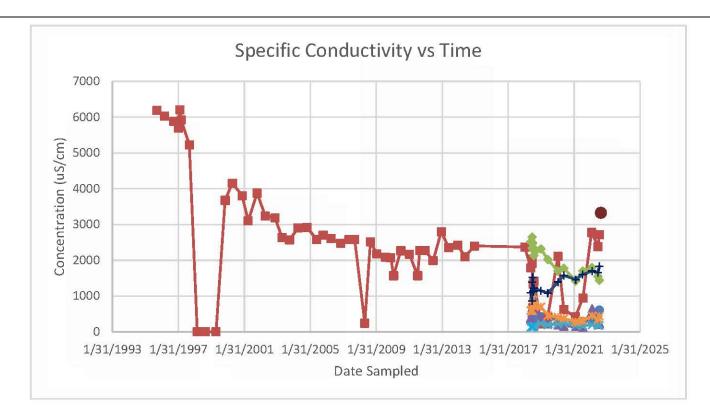
WLF-A1-3 WLF-A1-4 WLF-A1-5 Leachate

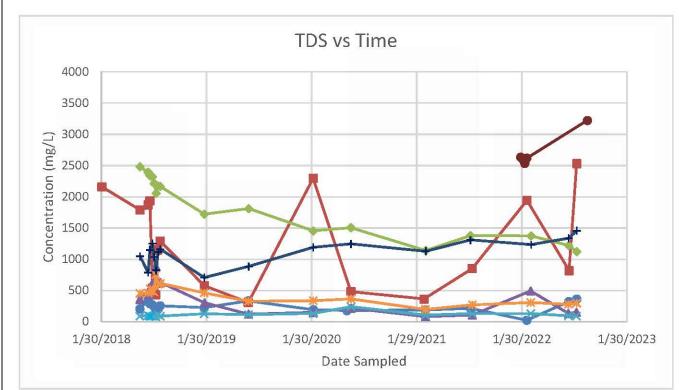
## APPENDIX B-2

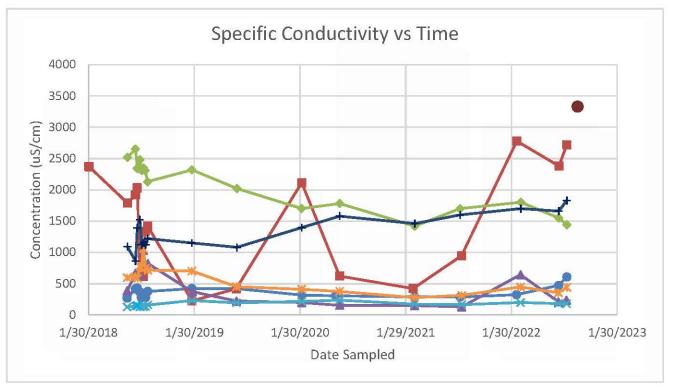
TIME-SERIES PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022

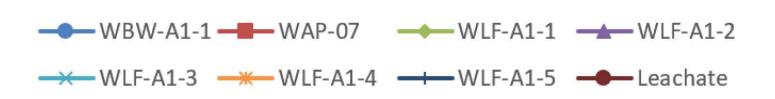






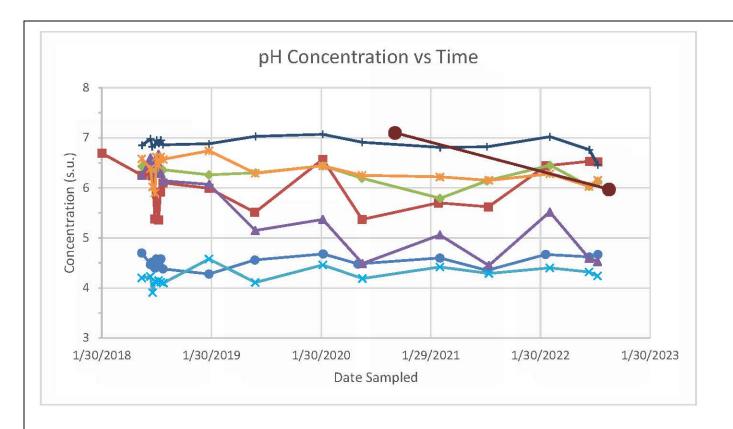


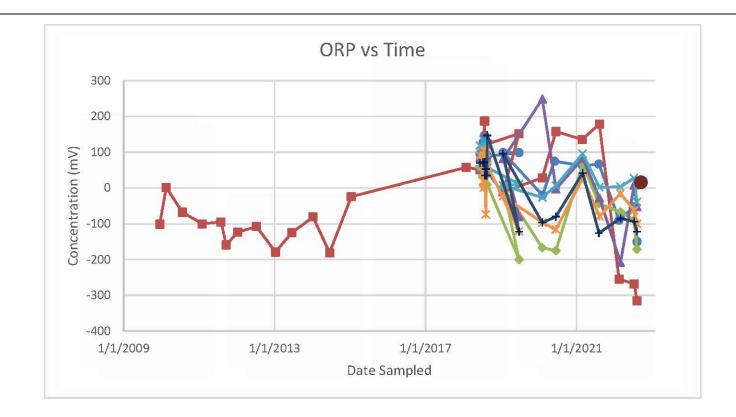


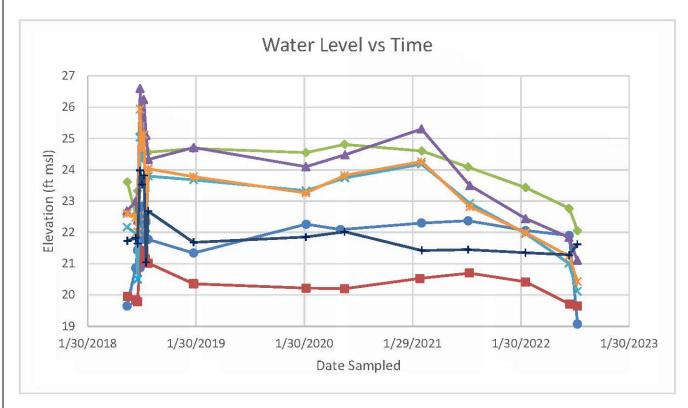


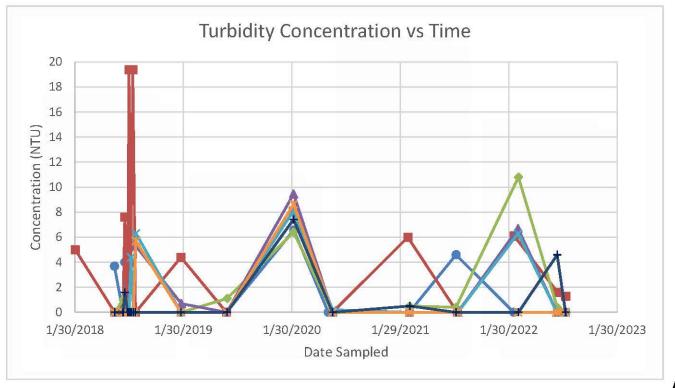
APPENDIX B-3
TIME-SERIES PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022











WBW-A1-1 WAP-07 WLF-A1-1 WLF-A1-2

WLF-A1-3 WLF-A1-4 WLF-A1-5 Leachate

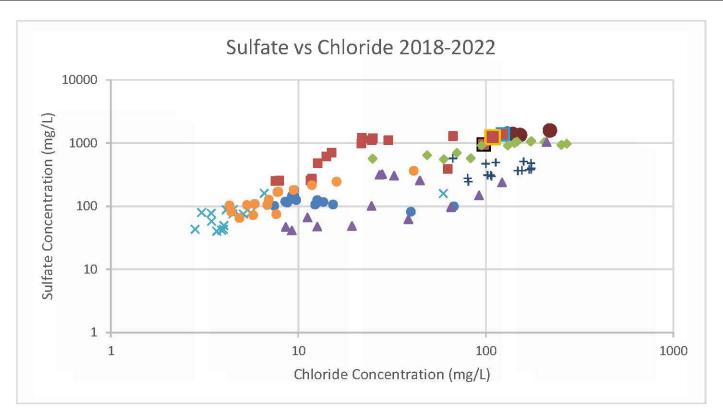
APPENDIX B-4

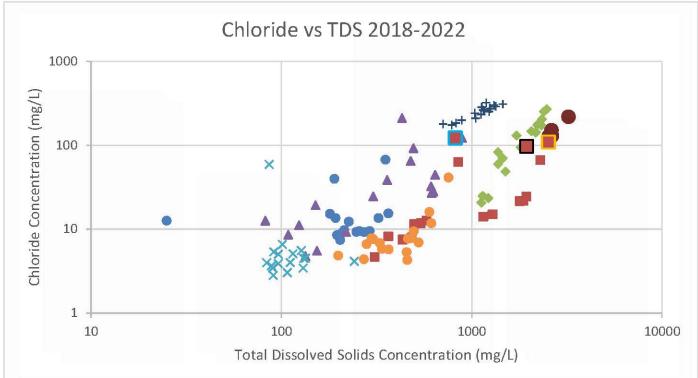
TIME-SERIES PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022

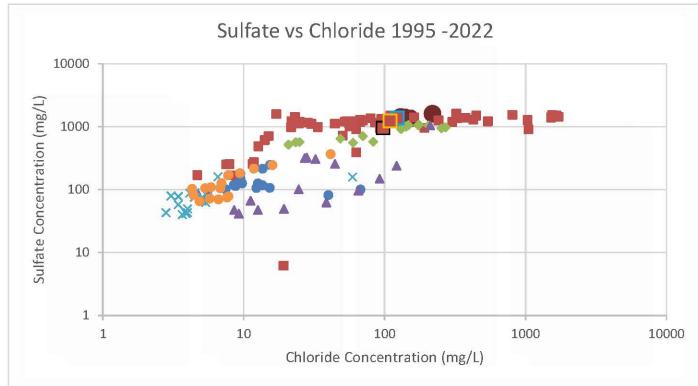


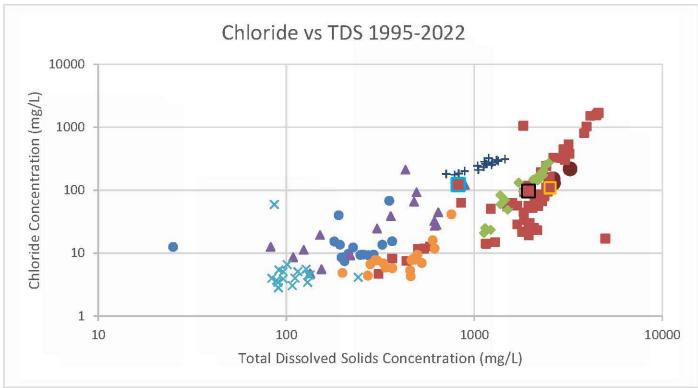
**APPENDIX C** 

**Bivariate Plots** 





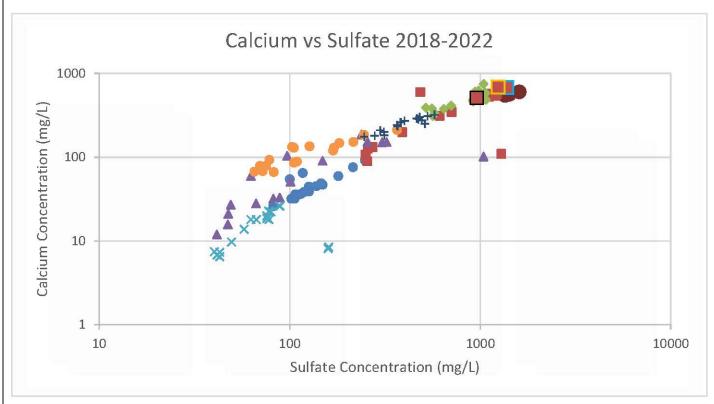


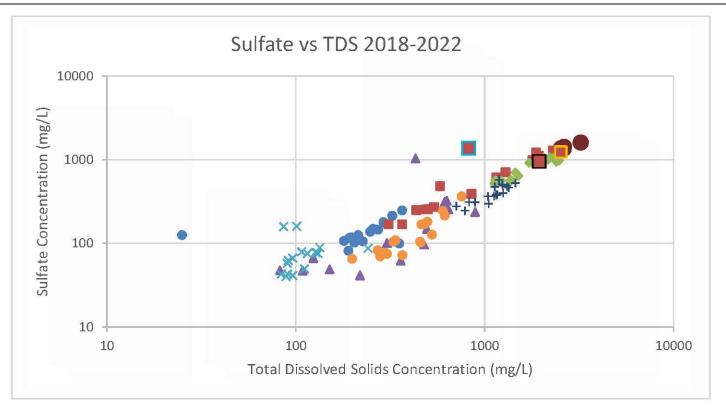


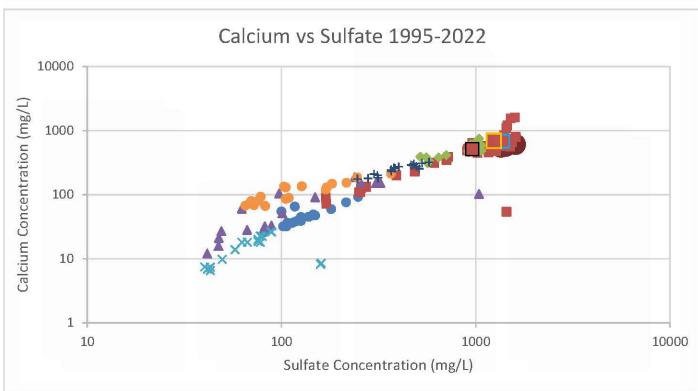
WBW-A1-1
 WAP-07
 WLF-A1-1
 WLF-A1-2
 XWLF-A1-3
 WLF-A1-4
 WLF-A1-5
 Leachate
 WAP-7 2/17/2022
 WAP-7 7/13/2022
 WAP-7 8/9/2022

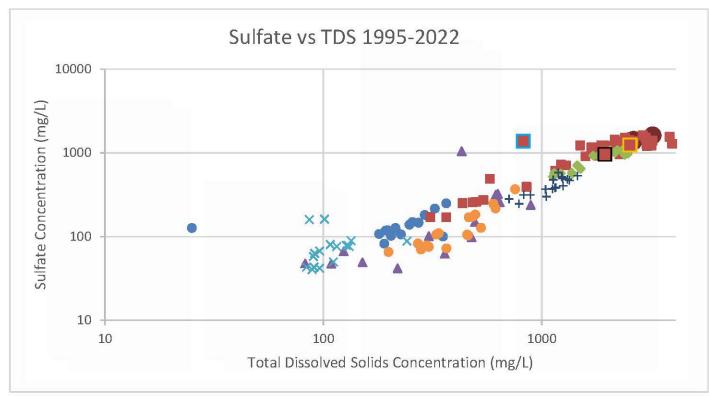
Notes: Historical data (1995-2017) presented are for WAP-7 only. Data for 2018-2022 are for all site monitoring wells. APPENDIX C-1
BIVARIATE PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

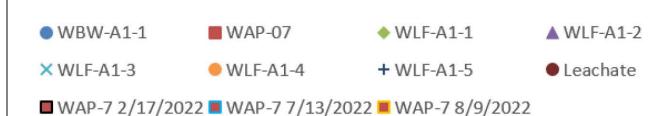
OCTOBER 2022





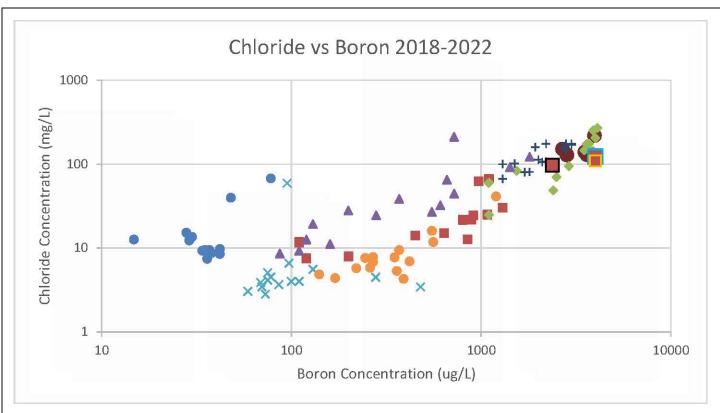


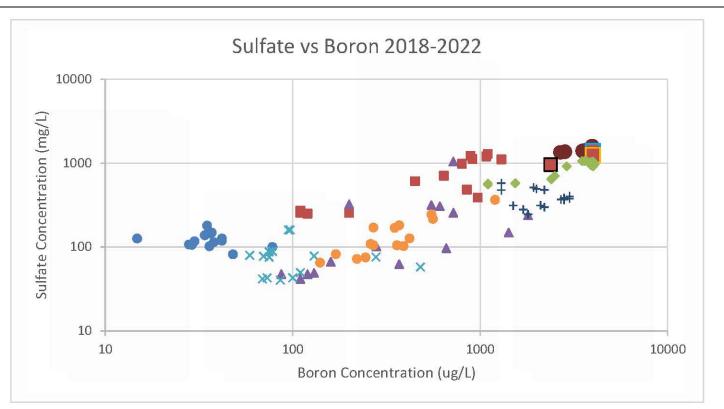


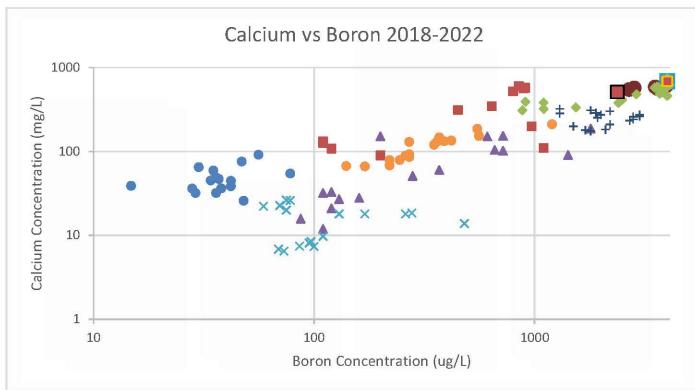


Notes: Historical data (1995-2017) presented are for WAP-7 only. Data for 2018-2022 are for all site monitoring wells. APPENDIX C-2
BIVARIATE PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022









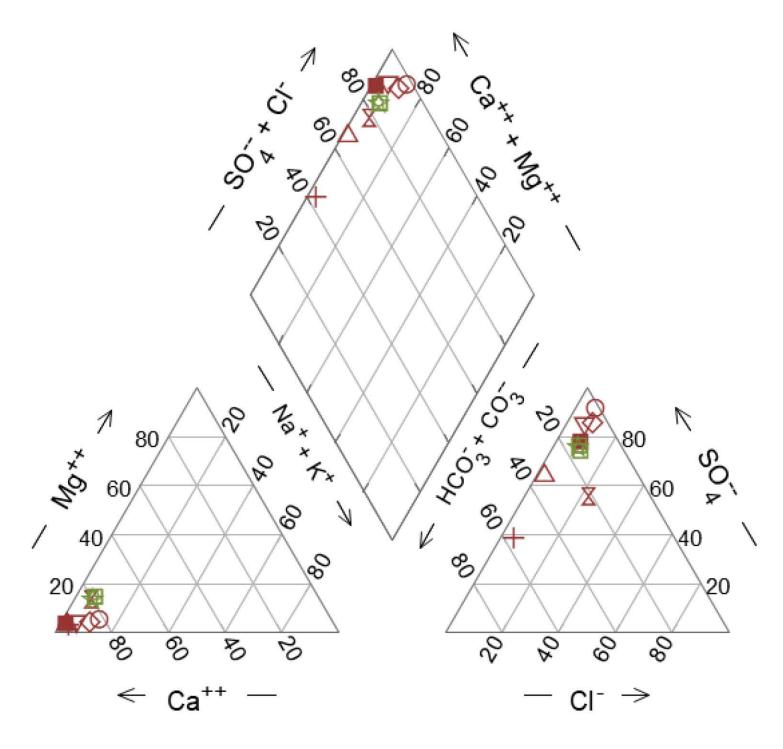


Notes: Historical data (1995-2017) presented are for WAP-7 only. Data for 2018-2022 are for all site monitoring wells. APPENDIX C-3
BIVARIATE PLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022



**APPENDIX D** 

**Piper Plots** 



- WAP-7-8.9.2022
- O WBW-A1-1-8.9.2022
- △ WLF-A1–1–8.9.2022
- ▼ WLF-A1-2-8.8.2022
- ♦ WLF-A1-3-8.8.2022
- + WLF-A1-4-8.9.2022
- X WLF-A1-5-8.9.2022
- WGS-Lechate-1.26.22\*
- WGS-Lechate-2.2.22\*
- ★ WGS-Lechate-2.9.22\*
- WGS-Lechate-2.16.22\*

\* = No alkalinity, WLF-A2-6 alkalinity concentrations used

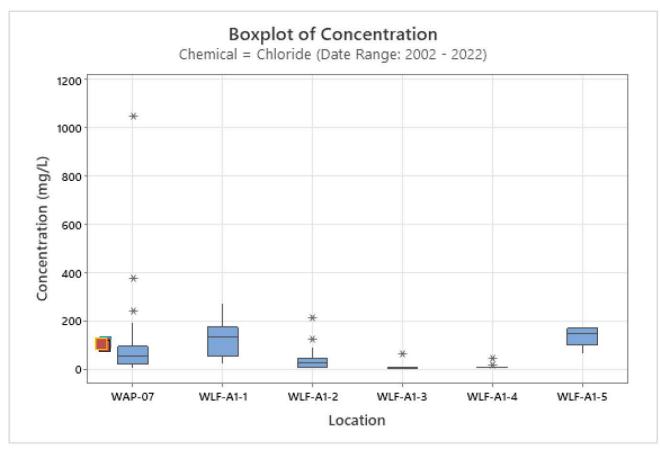
% meq/kg

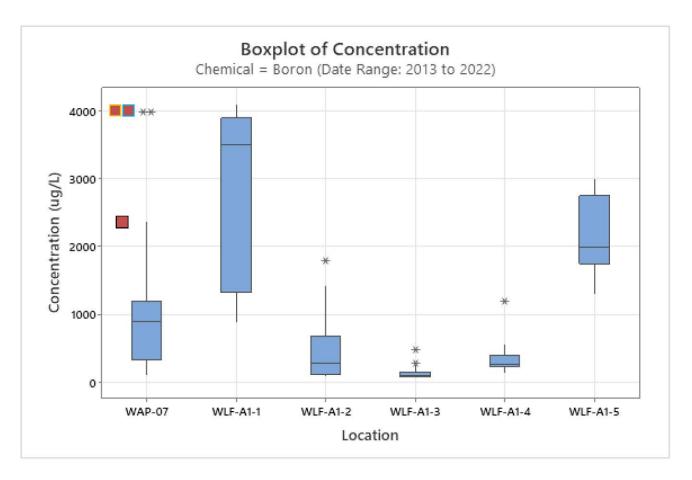
APPENDIX D
PIPER PLOT
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022

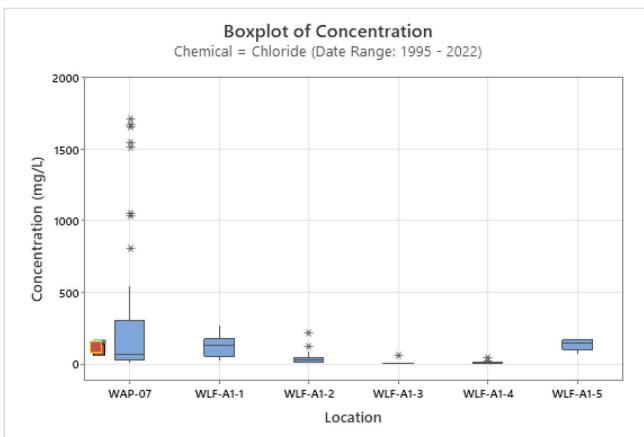


**APPENDIX E** 

**Boxplots** 









APPENDIX E
BOXPLOTS
CLASS 3 LANDFILL AREA 1
ALTERNATE SOURCE DEMONSTRATOIN
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA
OCTOBER 2022

