2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT SOUTH ASH POND WINYAH GENERATING STATION

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1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2025 Annual Groundwater Monitoring Corrective Action Report for the South Ash Pond at the Winyah Generating Station (WGS). This 2025 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, Title 40 Code of Federal Regulations (40 CFR) Part 257, Subpart D dated April 17, 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

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

At the start of the current annual reporting period (January 1, 2025), the WGS South Ash Pond continued to operate under an assessment monitoring program in accordance with § 257.95, which was initiated on July 16, 2018. Statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards (GWPS) were not identified in any of the wells to date, including both the February and July 2025 sampling events.

At the end of the current annual reporting period (December 31, 2025), the South Ash Pond is certified closed by removal in accordance with § 257.102(c)(1) as the following criteria have been met:

- Completed removal of CCR and decontamination of all areas affected by release from the CCR unit;
- Documented that the standards of § 257.102(c) have been met through posting the Notice of Completion of Closure by Removal of CCR certified October 22, 2025.
- Documented that groundwater protection standards have been met by demonstrating that no Appendix IV constituents were detected at SSLs above the groundwater protection standard for two consecutive monitoring events or three years, in accordance with $257.98 (c). The South Ash Pond has met these criteria for all consecutive groundwater monitoring events since assessment monitoring was initiated in 2018.

Therefore, assessment monitoring of the South Ash Pond under the CCR Rule is no longer required.

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

2. 2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a) and (c)

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

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

The South Ash Pond at WGS was a CCR surface impoundment which is no longer receiving CCR or non-CCR waste streams and has completed closure by removal. As such, for 2025 it was subject to the groundwater monitoring and corrective action requirements set forth by the EPA in 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Unit Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

2.2 40 CFR § 257.90(e) - SUMMARY

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

This Annual Report documents the activities completed in 2025 for the WGS South Ash Pond as required by the subject regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.95, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

Previously, statistically significant increases (SSIs) of Appendix III constituents were identified downgradient of the South Ash Pond, and the notification was provided on January 15, 2018. As a result, an assessment monitoring program was initiated as required by § 257.94(e)(2), and notification was placed in the facility's operating record as required by § 257.106(h)(4).

As required by § 257.93(h)(2), a statistical evaluation of the detected Appendix IV constituents was conducted. The results of this evaluation determined that the detected Appendix IV constituents were not present at SSLs above the GWPS. Therefore, this unit has remained in assessment monitoring since 2018 when the initial assessment monitoring was triggered. The unit never entered corrective action based on the results of semi-annual groundwater sampling and statistical analyses.

For the assessment monitoring in 2025, the two sampling events are consistent with prior sampling results and confirm that SSLs of the detected Appendix IV constituents above GWPS are not present for this unit.

The WGS South Ash Pond has met all federal closure requirements established under 40 CFR Part 257.102(c)(1), including meeting the groundwater standard. Therefore, assessment monitoring of the South Ash Pond under the CCR Rule is no longer required.

2.2.2 Key Actions Completed

The following key actions were completed in 2025:

- Prepared 2024 Annual Report including:

    - The Annual Report was placed in the facility's operating record pursuant to § 257.105(h)(1);
    - Pursuant to § 257.106(h)(1), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];
    - Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)].
- Collected and analyzed two rounds of groundwater samples (February/March and June/July) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the concentrations in the facility's operating record as required by § 257.95(d)(1). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B.
- Completed statistical evaluations to determine if SSLs above GWPS were present for detected Appendix IV constituents in accordance with § 257.93(h)(2) (Appendix A).
- Updated the statistical upper tolerance limits for background wells WAP-1 and WBW-1 after the first semi-annual sampling event of 2025 in accordance with the Unified Guidance.
- Continued potentiometric surface characterization of the uppermost aquifer given changing site conditions by completing sitewide synoptic water level measurements on an approximately quarterly basis to further evaluate temporal changes.
- Continued baseline sampling for WAP-2R and WAP-28R (which were installed in 2023 due to concerns related to WAP-2 and WAP-28), while evaluating whether to potentially replace WAP-2 and WAP-28, respectively.
- On August 18, 2025, an updated closure plan was approved by SCDES and uploaded to the CCR Website. As of October 6, 2025, all visible CCR and CCR-impacted subsoils were removed from the South Ash Pond. The South Ash Pond was certified closed by SCDES on October 24, 2025.
- The WGS Groundwater Monitoring Plan was updated in December 2025 to make general revisions and improvements to reflect changes in site conditions and procedures. It will continue to be revised as necessary.
- The WGS Sampling and Analysis Plan was updated in December 2025 to make general revisions and improvements to reflect changes in site conditions and procedures. It will continue to be revised as necessary.
- Revised the WGS Statistical Data Analysis Plan.

2.2.3 Problems Encountered

No problems were encountered during the 2025 Annual Reporting Period.

2.2.4 Actions to Resolve Problems

No actions were required during the 2025 Annual Reporting Period.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2026 include the following:

- Prepare the 2025 annual report; place it in the record as required by § 257.105(h)(1); notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].

2.3 40 CFR § 257.90(e) - INFORMATION

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

2.3.1 40 CFR § 257.90(e)(1)

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

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

2.3.2 40 CFR § 257.90(e)(2)

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

No groundwater monitoring wells were installed nor decommissioned in 2025.

2.3.3 40 CFR § 257.90(e)(3)

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

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

2.3.4 40 CFR § 257.90(e)(4)

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

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

In assessment monitoring, the sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the monitoring events in 2025 were compared to their respective GWPS (Appendix A). A statistically significant increase (SSI) of a sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. As required by § 257.93(h)(2), the statistical evaluation of the detected Appendix IV constituents determined that SSLs above the GWPS were not present at the South Ash Pond in 2025, which is consistent with previous results since assessment monitoring was initiated in 2018. Therefore, this unit meets federal closure requirements established under 40 CFR Part § 257.102(c)(1) and will cease federal groundwater monitoring after 2025.

2.3.5 40 CFR § 257.90(e)(5)

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

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

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

TABLES

Table 1 - Summary of Analytical Results
Winyah Generating Station South Ash Pond Assessment Monitoring 2025

					Appendix III Constituents							Appendix IV Constituents																Field Parameters							
Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number		Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226	Radium 228	Radium 226/228 Combined Calculation	Selenium	Thallium	Depth to Groundwater	Groundwater Elevation	pH	Specific Conductivity	Temperature	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen
				Unit	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	SU	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	pCi/L	pCi/L	pCi/L	ug/L	ug/L	Feet	Feet	SU	uS	C	mv	NTU	ppm
				Method	EPA 6010D	EPA 6020B	EPA 300.0	EPA 300.0	EPA 300.0	SM 2540C		EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 300.0	EPA 6020B	EPA 6010D	EPA 7470	EPA 6010D	EPA 903.1 Mod	EPA 904.0	EPA 903.1 Mod	EPA 6020B	EPA 6020B						SM2580		
				GWPS/ US EPA MCL/RSL	----	----	----	4.00	----	----	----	25.0	10.0	2000	4.00	5.00	100	6.00	4.00	15.0	40.0	2.00	100	----	----	6.00	50.0	2.00	----	----	----	----	----	----	----	----
Site Background Wells																																			
WAP-1	Background	2/18/2025	AG25121		26.6	6.1	8.58	<0.10	41.1	62.5	4.63	<5.0	<5.0	40.3	<0.5	<0.5	<5.0	0.65	<0.100	<1.0	<5.0	<0.2	<5.0	0.883	1.00	1.88	<10.0	<1.0	5.85	23.59	4.63	96	18.5	-42	0.2	0.5
WAP-1	Background	6/25/2025	AG36871		25.5	6.7	8.81	<0.10	22.6	55.00	4.34	5.3	5.7	36.5	<0.5	<0.5	<5.0	0.94	<0.10	<1.0	<5.0	<0.2	<5.0	1.63	0.513	2.14	<10.0	<1.0	6.19	23.25	4.34	101	24.38	147	0	0.31
WAP-1	**total samples**				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WBW-1	Background	2/18/2025	AG25164		16.4	1.5	2.73	<0.10	6.56	32.5	4.16	<5.0	<5.0	16.1	<0.5	<0.5	<5.0	0.61	<0.10	<1.0	<5.0	<0.2	<5.0	0.607	0.847	1.45	<10.0	<1.0	7.93	24.04	4.16	37.0	15.25	318	8.80	2.56
WBW-1	Background	6/25/2025	AG36911		22.8	1.4	2.40	<0.10	6.11	30.00	3.78	<5.0	<5.0	22.2	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	<5.0	<0.2	<5.0	0.248	1.99	2.24	<10.0	<1.0	8.39	23.58	3.78	36.0	24.05	338	2.10	1.54
WBW-1	**total samples**				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
South Ash Pond Wells																																			
WAP-2	Assessment	2/18/2025	AG25122		710	88.8	86.6	<0.10	175	495.0	5.83	<5.0	28.3	92.2	0.78	<0.5	<5.0	7.1	<0.10	<1.0	8.90	<0.2	<5.0	0.955	0.650	1.61	<10.0	<1.0	7.32	16.37	5.83	746	17.68	-83.0	11.5	0.480
WAP-2	Assessment	6/25/2025	AG36872		781	87.6	85.4	<0.10	169	490.0	5.62	6.3	34.8	87.5	0.78	<0.5	<5.0	4.9	<0.10	<1.0	9.92	<0.2	<5.0	2.55	1.39	3.94	<10.0	<1.0	8.03	15.66	5.62	709	26.35	-44.0	0	0.240
WAP-2	**total samples**				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-3	Assessment	2/24/2025	AG25125		1310	238	185	0.102	143	955.0	6.23	<5.0	<5.0	172	<0.5	<0.5	<5.0	1.3	0.102	<1.0	17.5	<0.2	<5.0	0.771	0.822	1.59	<10.0	<1.0	8.76	10.67	6.23	1380	18.83	3.00	10.6	4.49
WAP-3	Assessment	6/26/2025	AG36874		1360	210	180	<0.10	135	930.0	6.00	5.1	<5.0	157	<0.5	<0.5	<5.0	1.6	<0.10	<1.0	14.5	<0.2	<5.0	1.53	3.21	4.74	<10.0	<1.0	8.98	10.45	6.00	1180	23.64	36.0	4.10	0.320
WAP-3	**total samples**				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-12	Assessment	3/7/2025	AG25136		9540	411	893	<0.10	1030	2638	4.40	<5.0	<5.0	82.1	<0.5	<0.5	<5.0	1.9	<0.10	<1.0	<5.0	<0.2	<5.0	2.08	3.71	5.79	<10.0	<1.0	9.56	21.28	4.40	3420	17.71	266	0.750	0.750
WAP-12	Duplicate	3/7/2025	AG25137		8370	409	581	<0.10	708	2615	***	<5.0	<5.0	77.8	<0.5	<0.5	<5.0	1.8	<0.10	<1.0	<5.0	<0.2	<5.0	1.56	3.81	5.37	<10.0	<1.0	***	***	***	***	***	***	***	***
WAP-12	Assessment	7/10/2025	AG36884		5720	275	425	<0.1	485	1645	4.45	<5.0	<5.0	56.4	<0.5	<0.5	<5.0	1.0	<0.1	<1.0	<5.0	<0.2	<5.0	2.28	4.27	6.55	<10.0	<1.0	10.43	20.41	4.45	2160	25.80	138	0	2.05
WAP-12	Duplicate	7/10/2025	AG36885		6330	327	493	<0.1	556	2002	***	<5.0	<5.0	64.6	<0.5	<0.5	<5.0	1.0	<0.1	<1.0	<5.0	<0.2	<5.0	1.41	4.06	5.47	<10.0	<1.0	***	***	***	***	***	***	***	***
WAP-12	**total samples**				4	4	4	4	4	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2
WAP-13	Assessment	2/24/2025	AG25138		3990	351	446	<0.10	99.2	1600	6.60	<5.0	<5.0	251	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	14.4	<0.2	<5.0	1.83	1.57	3.40	<10.0	<1.0	10.81	11.16	6.60	2380	20.12	-104	4.40	0.220
WAP-13	Assessment	7/14/2025	AG36886		3690	333	436	<0.10	49.5	1660	6.48	<5.0	<5.0	237	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	13.7	<0.2	<5.0	0.639	1.25	1.89	<10.0	<1.0	10.29	11.68	6.48	2450	24.93	-90.0	0	0.620
WAP-13	**total samples**				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-28	Assessment	2/24/2025	AG25160		2440	86.0	173	0.134	139	627.5	5.43	<5.0	<5.0	109	<0.5	<0.5	<5.0	12.0	0.134	<1.0	<5.0	<0.2	<5.0	2.31	0.113	2.42	<10.0	<1.0	11.81	11.28	5.43	1050	20.07	70.0	4.00	0.440
WAP-28	Assessment	7/14/2025	AG36907		2590	53.4	109	0.12	154	467.5	5.24	<5.0	<5.0	86.7	<0.5	<0.5	<5.0	8.1	0.12	<1.0	<5.0	<0.2	<5.0	1.14	1.14	2.28	<10.0	<1.0	11.74	11.35	5.24	762	27.42	92.0	0	0.430
WAP-28	**total samples**				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Notes:
1. All groundwater samples collected from the monitoring wells were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Eurofins (Certification # 98001), Davis & Brown (Certification # 21117), Shealy Environmental Services, Inc (Certification # 32010), Test America Laboratories Inc. Savannah (Certification # 98001), Rogers & Callcot, Inc. (Certification # 23105001), and Pace Analytical Services LLC (Certification #99030).
2. All Background, Corrective Measures Assessment (CMA) / Nature & Extent (NE), & 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 (btoc) to the water surface. Elevation is shown relative to mean sea level (msl).
5. *** means not collected. Mainly pertinant for duplicate samples.

Table 2
Winyah Generating Station
2025 Synoptic Water Levels for Groundwater Monitoring Wells

		1st Event - 2/17/2025		2nd Event - 4/23/2025		3rd Event - 6/23/2025		4th Event - 11/4/2025	
Well Name	TOC Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)
WBW-1	31.97	7.94	24.03	8.41	23.56	8.37	23.6	7.35	24.62
PZ-1	31.25	9.91	21.34	10.86	20.39	10.44	20.81	8.29	22.96
WAP-1	29.44	8.88	20.56	6.41	23.03	6.19	23.25	5.05	24.39
WAP-2	23.69	7.32	16.37	8.09	15.6	7.81	15.88	7.75	15.94
WAP-2R	24.29	7.65	16.64	8.4	15.89	8.08	16.21	7.43	16.86
WAP-3	19.43	8.84	10.59	9.89	9.54	8.69	10.74	8.49	10.94
WAP-4	20.34	7.8	12.54	8.73	11.61	7.04	13.3	7.4	12.94
WAP-5	26.25	9.79	16.46	10.79	15.46	9.77	16.48	10.1	16.15
WAP-6	30.98	5.54	25.44	9.33	21.65	8.63	22.35	6.94	24.04
WAP-7	29.94	10.62	19.32	10.41	19.53	9.59	20.35	9.48	20.46
WAP-8	30.38	11.61	18.77	11.31	19.07	10.82	19.56	10.51	19.87
WAP-9	28.04	10.61	17.43	11.36	16.68	10.3	17.74	10.26	17.78
WAP-10	26.11	6.86	19.25	7.77	18.34	7.11	19	6.88	19.23
WAP-11	9.55	5.39	4.16	6.19	3.36	6.07	3.48	5.21	4.34
WAP-12	30.84	8.15	22.69	10.52	20.32	9.96	20.88	10.08	20.76
WAP-13	21.97	10.79	11.18	11.95	10.02	10.45	11.52	11.01	10.96
WAP-14	14.69	6.19	8.5	8.36	6.33	6.15	8.54	6.95	7.74
WAP-14A	13.95	5.46	8.49	7.09	6.86	5.66	8.29	6.09	7.86
WAP-14B	9.23	5.49	3.74	6.51	2.72	5.68	3.55	5.61	3.62
WAP-14C	13.88	10.58	3.3	11.42	2.46	10.37	3.51	10.48	3.4
WAP-15	22.17	8.14	14.03	9.29	12.88	7.73	14.44	8.08	14.09
WAP-16	25.08	11.41	13.67	11.91	13.17	11.37	13.71	12.81	12.27
WAP-17	26.88	6.82	20.06	7.37	19.51	6.54	20.34	6.58	20.3
WAP-18	31.04	11.6	19.44	11.56	19.48	11	20.04	10.46	20.58
WAP-19	43.39	24.05	19.34	24.06	19.33	23.26	20.13	22.81	20.58
WAP-21	43.06	25.08	17.98	25.11	17.95	24.61	18.45	24.13	18.93
WAP-22	30.32	10.8	19.52	10.66	19.66	10.27	20.05	9.91	20.41
WAP-23	43.23	25.55	17.68	25.52	17.71	25.03	18.2	25	18.23
WAP-24	28.77	9.34	19.43	10.07	18.7	9.4	19.37	9.04	19.73
WAP-25	27.1	8.6	18.5	8.58	18.52	8.16	18.94	7.79	19.31
WAP-26	27.56	6.1	21.46	9.76	17.8	8.73	18.83	7.54	20.02
WAP-27	43.18	25.26	17.92	25.27	17.91	24.84	18.34	24.67	18.51
WAP-28	23.09	11.86	11.23	12.57	10.52	11.69	11.4	11.86	11.23
WAP-28R	20.27	9.19	11.08	9.91	10.36	9.04	11.23	9.16	11.11
WAP-29	12.34	7.28	5.06	8.09	4.25	7.57	4.77	7.59	4.75
WAP-30	43.37	25.59	17.78	25.56	17.81	25.06	18.31	25.03	18.34
WBW-A1-1	28.14	7.16	20.98	8.67	19.47	7.38	20.76	6.99	21.15
WLF-A1-1	41.35	18.33	23.02	19.12	22.23	17.83	23.52	17.17	24.18
WLF-A1-2	29.21	7.29	21.92	8.14	21.07	7.14	22.07	5.69	23.52
WLF-A1-3	28.31	6.92	21.39	7.85	20.46	6.86	21.45	5.28	23.03
WLF-A1-4	28.24	6.73	21.51	7.49	20.75	6.52	21.72	5.12	23.12
WLF-A1-5	37.64	16.92	20.72	17.11	20.53	16.57	21.07	16.51	21.13
WLF-A2-1	30.04	10.69	19.35	10.59	19.45	10.06	19.98	9.64	20.4
WLF-A2-2	27.56	8.16	19.4	8.17	19.39	7.56	20	7.2	20.36
WLF-A2-6	35.14	15.31	19.83	15.66	19.48	14.76	20.38	14.57	20.57
WGS-PSE-1	-	-	19.71	-	18.85	-	20.61	-	21.74
WGS-PSE-2	-	-	32.50	-	32.42	-	33.38	-	19.96
WGS-PSE-3	-	-	15.83	-	11.91	-	16.73	-	15.83
WGS-PSE-4	-	-	7.91	-	8.31	-	9.09	-	8.26
WGS-PSE-5	-	-	19.20	-	19.35	-	19.85	-	20.10
WGS-PSE-6	-	-	15.11	-	15.42	-	15.43	-	15.33
WGS-PSE-7	-	-	18.63	-	17.17	-	16.73	-	17.39
WGS-PSE-8	-	-	23.72	-	23.46	-	23.40	-	24.36
WGS-PSE-9	-	-	23.89	-	23.50	-	23.16	-	24.65
WSE AT WAP-21	-	-	15.08	-	14.90	-	15.02	-	14.99
WSE AT WAP-21	-	-	18.87	-	19.29	-	19.78	-	19.77
WSE AT WAP-27	-	-	14.58	-	14.25	-	14.82	-	13.76
WSE AT WAP-27	-	-	18.72	-	19.31	-	19.66	-	19.81
WSE AT WAP-19	-	-	35.81	-	NA	-	NA	-	32.28
WSE AT WAP-19	-	-	19.16	-	19.30	-	19.88	-	20.11
WSE AT WLF-A2-2	-	-	36.16	-	33.60	-	35.27	-	NA
WSE AT WLF-A2-2	-	-	18.91	-	19.25	-	19.81	-	19.86
WSE AT PUMP	-	-	13.43	-	13.74	-	15.94	-	15.54
WSE AT PUMP	-	-	14.41	-	14.25	-	14.58	-	13.09

Notes:

1. Additional groundwater monitoring wells used for developmenrt of potentiometric maps. These wells monitor groundwater constituent concentrations under the SCDES NPDES Permit #SC0037401 and are not used for CCR constituent concentrations.

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

3. Pond surface elevations (PSE) and staff gauge elevations were collected to aid in the potentiometric surface interpretation elevation.

FIGURES



LEGEND

- BACKGROUND WELL
- SOUTH ASH POND WELL
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY
- POND WATER SURFACE ELEVATION MEASUREMENT LOCATION

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI

N

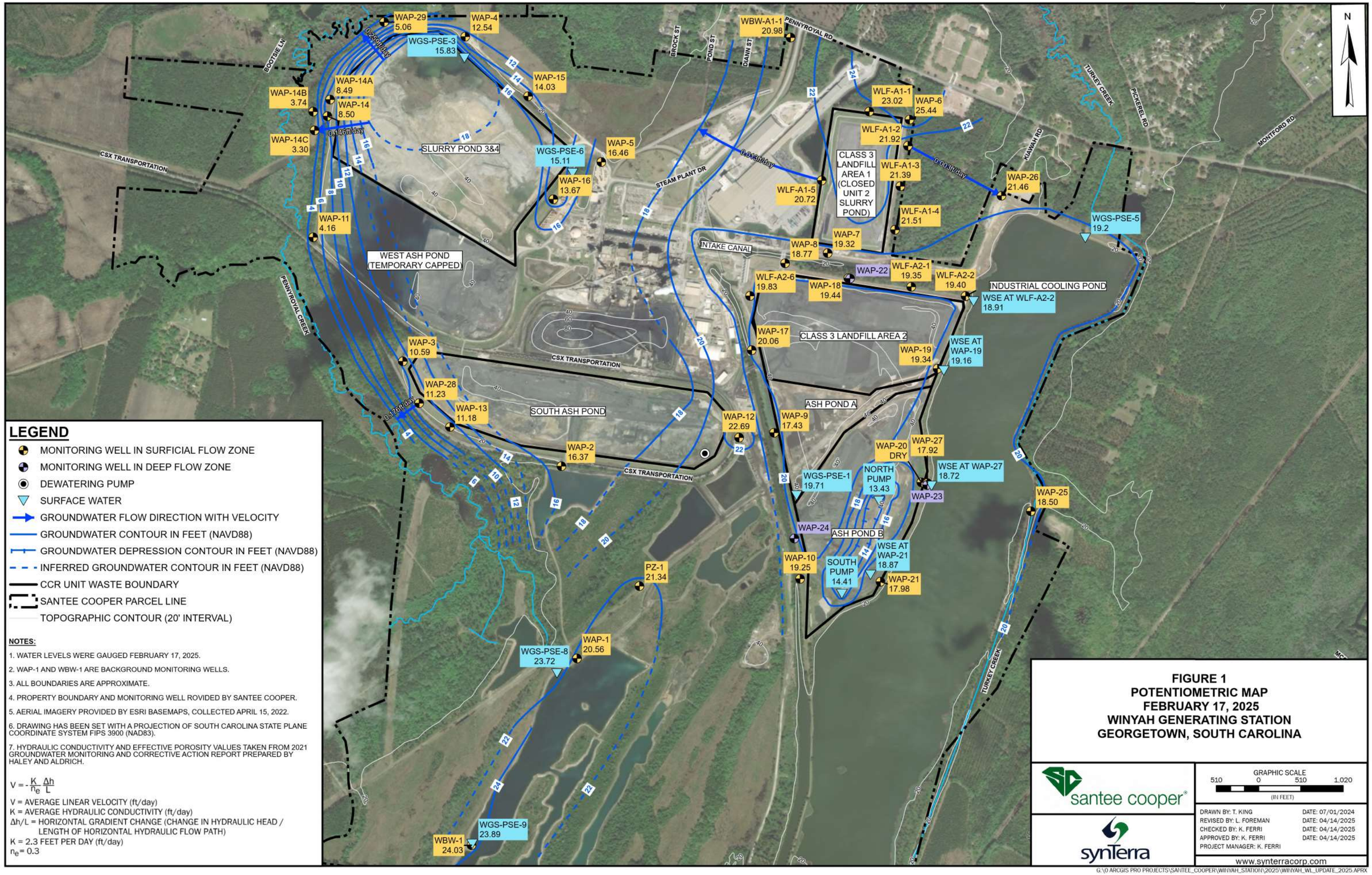
0 750 1,500
SCALE IN FEET

SANTEE COOPER
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

LOCATION OF SOUTH ASH POND GROUNDWATER MONITORING WELLS FOR CCR COMPLIANCE

JANUARY 2026

FIGURE 1



LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- DEWATERING PUMP
- SURFACE WATER
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED FEBRUARY 17, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL ROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83).
7. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

$$V = -\frac{K}{n_e}\frac{\Delta h}{L}$$

V = AVERAGE LINEAR VELOCITY (ft/day)
K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
Δh/L = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
K = 2.3 FEET PER DAY (ft/day)
n_e = 0.3

FIGURE 1
POTENTIOMETRIC MAP
FEBRUARY 17, 2025
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

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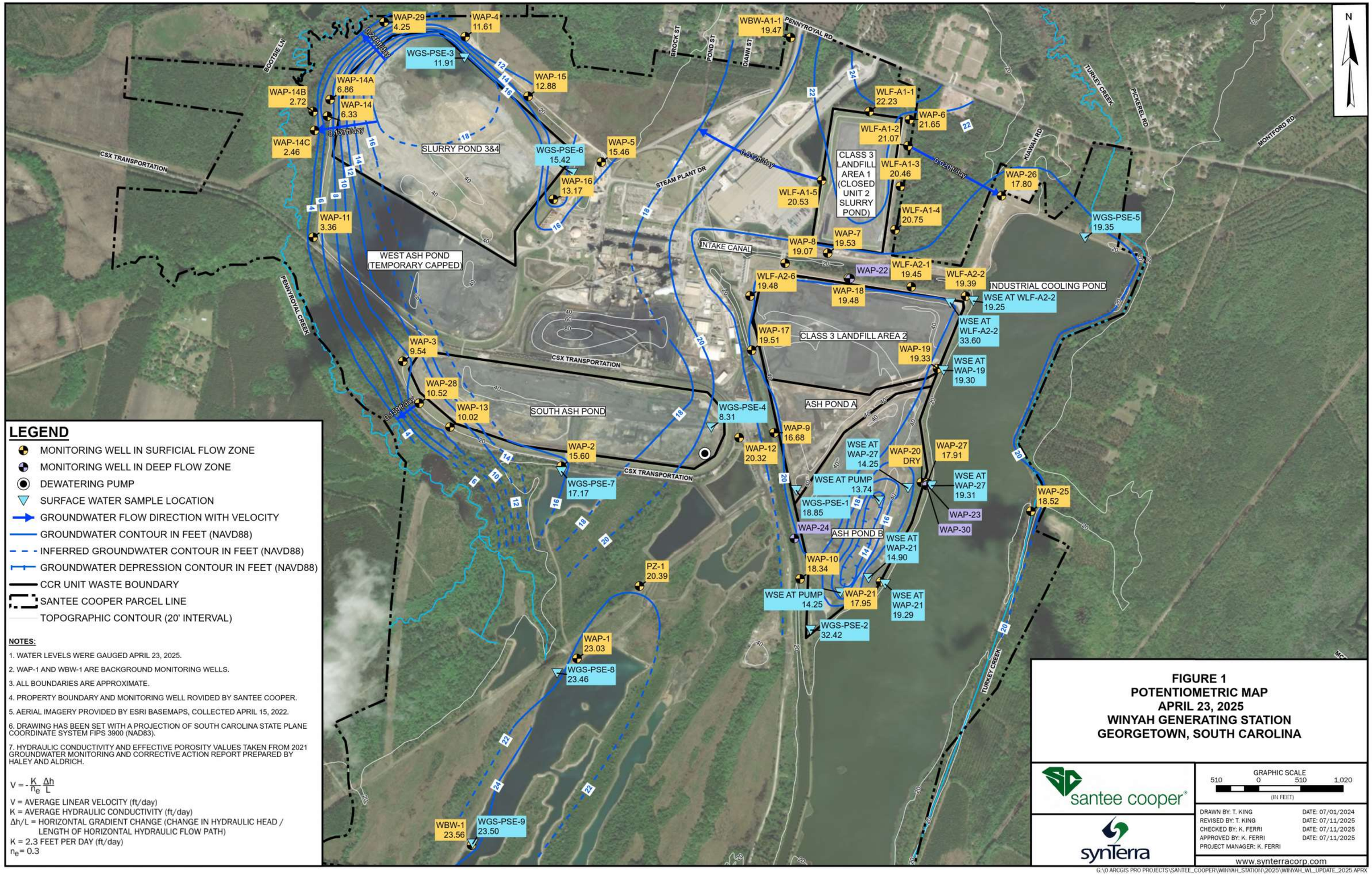
synTerra

GRAPHIC SCALE
510 0 510 1,020
(IN FEET)

DRAWN BY: T. KING	DATE: 07/01/2024
REVISED BY: L. FOREMAN	DATE: 04/14/2025
CHECKED BY: K. FERRI	DATE: 04/14/2025
APPROVED BY: K. FERRI	DATE: 04/14/2025
PROJECT MANAGER: K. FERRI	

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LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- DEWATERING PUMP
- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED APRIL 23, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL ROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.
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K = 2.3 FEET PER DAY (ft/day)
n_e = 0.3

FIGURE 1
POTENTIOMETRIC MAP
APRIL 23, 2025
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

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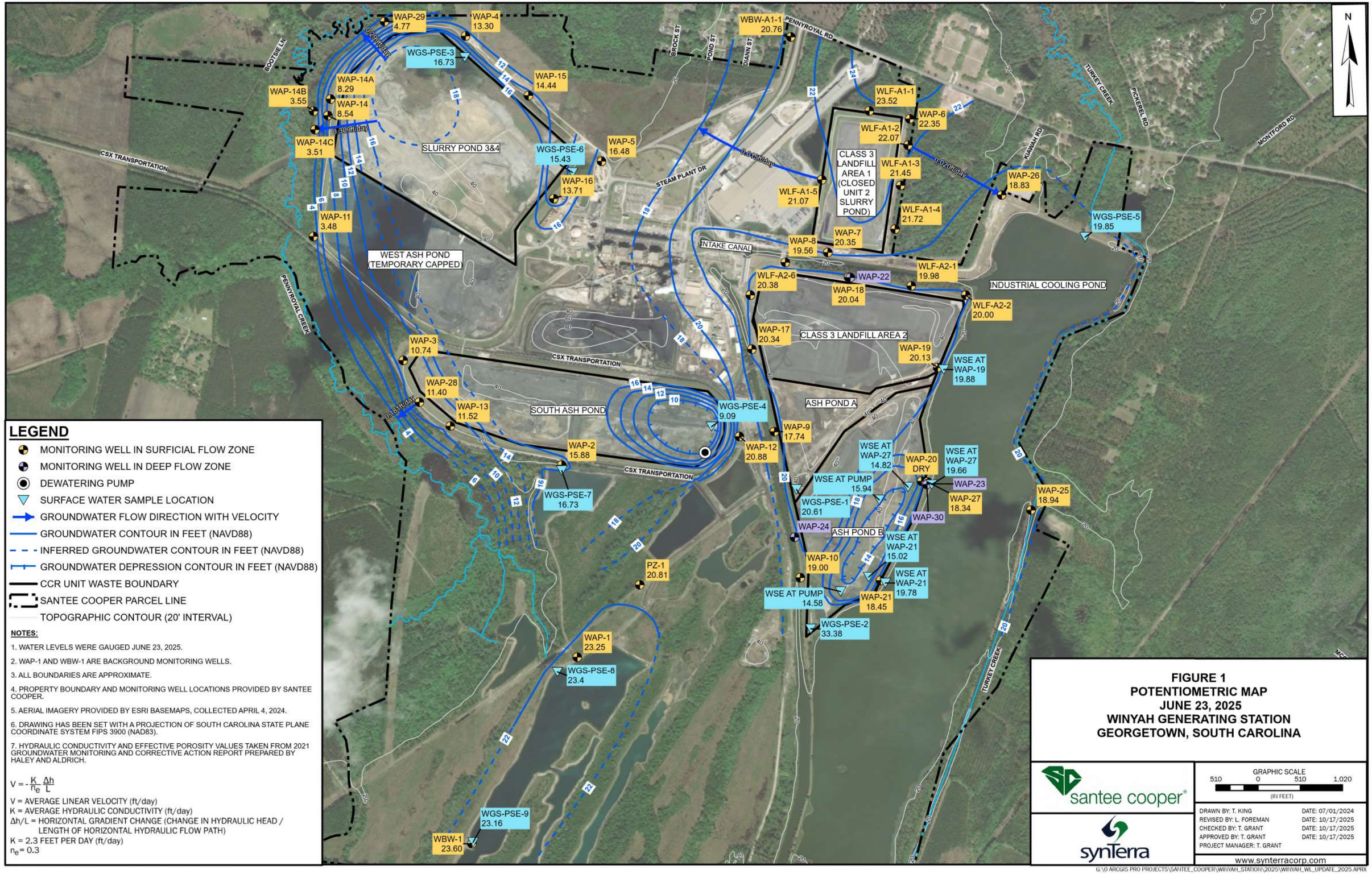
synTerra

GRAPHIC SCALE
510 0 510 1,020
(IN FEET)

DRAWN BY: T. KING	DATE: 07/01/2024
REVISED BY: T. KING	DATE: 07/11/2025
CHECKED BY: K. FERRI	DATE: 07/11/2025
APPROVED BY: K. FERRI	DATE: 07/11/2025
PROJECT MANAGER: K. FERRI	

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LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- DEWATERING PUMP
- SURFACE WATER SAMPLE LOCATION
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- GROUNDWATER CONTOUR IN FEET (NAVD88)
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- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED JUNE 23, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL LOCATIONS PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 4, 2024.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83).
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Δh/L = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
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n_e = 0.3

FIGURE 1
POTENTIOMETRIC MAP
JUNE 23, 2025
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

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synTerra

GRAPHIC SCALE
510 0 510 1,020
(IN FEET)

DRAWN BY: T. KING	DATE: 07/01/2024
REVISED BY: L. FOREMAN	DATE: 10/17/2025
CHECKED BY: T. GRANT	DATE: 10/17/2025
APPROVED BY: T. GRANT	DATE: 10/17/2025
PROJECT MANAGER: T. GRANT	

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N

WAP-29 4.75
WAP-4 12.94
WGS-PSE-3 15.83
WAP-14A 7.86
WAP-14B 3.62
WAP-14 7.74
WAP-14C 3.40
WAP-15 14.09
WAP-5 16.15
WGS-PSE-6 15.33
WAP-16 12.27
WAP-11 4.34
WBW-A1-1 21.15
WLF-A1-1 24.18
WAP-6 24.04
WLF-A1-2 23.52
WLF-A1-3 23.03
WLF-A1-4 23.12
WLF-A1-5 21.13
WAP-26 20.02
WGS-PSE-5 20.10
WAP-8 19.87
WAP-7 20.46
WAP-22
WLF-A2-1 20.40
WLF-A2-2 20.36
WLF-A2-6 20.57
WAP-18 20.58
WAP-17 20.30
WSE AT WLF-A2-2 19.86
WSE AT WAP-19 32.28
WSE AT WAP-19 20.11
WAP-19 20.58
WAP-3 10.94
WAP-28 11.23
WAP-13 10.96
WGS-PSE-4 8.26
WAP-9 17.78
WAP-12 20.76
WSE AT WAP-27 13.76
WAP-27 18.51
WSE AT WAP-27 19.81
WSE AT PUMP 15.54
WAP-30
WAP-23
WAP-25 19.31
WAP-2 15.94
WGS-PSE-7 17.39
WGS-PSE-1 21.74
WAP-24
WAP-10 19.23
WSE AT WAP-21 19.77
WAP-21 18.93
WSE AT PUMP 13.09
WSE AT WAP-21 14.99
WGS-PSE-2 19.96
PZ-1 22.96
WAP-1 24.39
WGS-PSE-8 24.36
WBW-1 24.62
WGS-PSE-9 24.65

SLURRY POND 3&4
WEST ASH POND (TEMPORARY CAPPED)
SOUTH ASH POND
CLASS 3 LANDFILL AREA 1 (CLOSED UNIT 2 SLURRY POND)
CLASS 3 LANDFILL AREA 2
ASH POND A
ASH POND B
INDUSTRIAL COOLING POND
INTAKE CANAL

CSX TRANSPORTATION
STEAM PLANT DR
PENNYROYAL RD
PENNYROYAL CREEK
BOOTSIE LN
BROCK ST
POND ST
DIANN ST
TURKEY CREEK
PICKEREL RD
KINWAH RD
MONTFORD RD

0.138ft/day
0.170ft/day
0.015ft/day
0.022ft/day

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER SURVEY LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- STREAM
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED NOVEMBER 4, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL LOCATIONS PROVIDED BY SANTEE COOPER.
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K = 2.3 FEET PER DAY (ft/day)
n_e = 0.3

FIGURE 1
POTENTIOMETRIC MAP
NOVEMBER 4, 2025
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

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500 0 500 1,000
GRAPHIC SCALE (IN FEET)

DRAWN BY: T. KING	DATE: 07/01/2024
REVISED BY: C. NORRIS	DATE: 01/13/2026
CHECKED BY: T. GRANT	DATE: 01/13/2026
APPROVED BY: T. GRANT	DATE: 01/13/2026
PROJECT MANAGER: T. GRANT	

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Appendix A – Statistical Analyses

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

TECHNICAL MEMORANDUM

July 1, 2025
File No. 132892-102

SUBJECT: Statistical Evaluation of the February and March 2025 Semiannual Groundwater Assessment Monitoring Data, Winyah Generating Station, South Ash Pond

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February and March 2025 semiannual assessment monitoring event for the Winyah Generating Station (WGS) South Ash Pond. Data for this groundwater sampling event were validated on April 30, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

The WGS South Ash Pond ceased receipt of coal combustion residual (CCR) material and non-CCR wastewater inflows prior to April 11, 2021. The unit continues in assessment monitoring and closure by excavation and removal is underway.

Recent analytical testing results were evaluated to determine if statistically significant levels (SSLs) exist above Groundwater Protection Standards (GWPS) of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR §257.93(f) (1-4)) 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 on October 14, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of

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

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

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

The background wells (WAP-1 and WBW-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2024 and updated in the Statistical Ouput produced with R programming software (Attachment A). The background dataset will be updated in Table 1 after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on both the overall dataset and on the eight most recent samples. Trends were only evaluated for constituent/well datasets of sufficient sample size. Recent trend analysis results are included in Table 1 and both overall and recent trends are included in Attachment A, Table A-4. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

Of the 20 well/constituent datasets that were evaluated for recent trends, 35 percent were stable and 60 percent were variable with no statistically significant trend. An increasing trend was identified for lithium in WAP-13, but the event sample concentration (0.0144 milligrams per liter [mg/L]) was well below the GWPS (0.04 mg/L). A probably increasing trend, which is not statistically significant at 95 percent confidence, but may indicate potential emerging trends, was identified for lithium at WAP-3,

but concentrations remain below the GWPS. It is important to note that increasing trends are not part of the comparison criteria for triggering an SSL.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with previous results, SSLs were not identified.

Arsenic in WAP-2 was identified above the GWPS and the LCL was calculated. The resulting concentration was not an SSL. The concentrations may possibly be attributed to the dewatering activities and site conditions resulting from ongoing closure-by-removal construction activities. Concentrations should decrease once closure is complete, and groundwater equilibrium is restored. The expected date for completing CCR and soil removals for the South Ash Pond is by the end of 2025. Groundwater trends will continue to be monitored during future sampling events.

Enclosures:

Table 1 – February and March 2025 Semiannual Corrective Action Monitoring Data (WGS South Ash Pond)

Attachment A – Statistical Output, February and March 2025

TABLE

TABLE 1
FEBRUARY AND MARCH 2025 SEMIANNUAL MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Antimony, Total (mg/L)																					
WBW-1	0/21	100%	0.005 - 0.025	0.0060	0.0050	0.0050	NA	73%	0	1	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.025	NA	0.006	0.025	NA	NA
WAP-1	0/21	100%	0.002 - 0.025	0.0058	0.0050	0.0050	NA	77%	0	1	Not Evaluated		2/18/2025	0.005	No		NA			NA	NA
WAP-2	0/19	100%	0.002 - 0.025	0.0059	0.0050	0.0070	NA	79%	0	1	Not Evaluated	NA	2/18/2025	0.005	No		No			NA	No
WAP-3	1/19	95%	0.002 - 0.025	0.0059	0.0050	0.0070	0.0050	79%	0	1	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
WAP-12	0/19	100%	0.002 - 0.025	0.0059	0.0050	0.0070	NA	79%	0	1	Not Evaluated	NA	3/7/2025	0.005	No		No			NA	No
WAP-13	0/19	100%	0.002 - 0.025	0.0059	0.0050	0.0070	NA	79%	0	1	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																					
WBW-1	0/23	100%	0.003 - 0.005	0.00448	0.005	0.00500	NA	20%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.0096	NA	0.01	0.01	NA	NA
WAP-1	6/25	76%	0.003 - 0.005	0.00541	0.005	0.00846	0.0096	28%	0	0	No Trend		2/18/2025	0.005	No		NA			NA	NA
WAP-2	7/25	72%	0.003 - 0.005	0.01180	0.005	0.04220	0.0712	135%	6	0	No Trend	Non-Parametric	2/18/2025	0.0283	Yes		Yes			0.005	No
WAP-3	0/24	100%	0.003 - 0.005	0.00458	0.005	0.00500	NA	18%	0	0	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
WAP-12	5/20	75%	0.003 - 0.03	0.00614	0.005	0.00929	0.0082	94%	0	1	Not Evaluated	NA	3/7/2025	0.005	No		No			NA	No
WAP-13	3/20	85%	0.003 - 0.005	0.00481	0.005	0.00622	0.0103	33%	1	0	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
CCR Appendix IV: Barium, Total (mg/L)																					
WBW-1	23/23	0%	NA	0.0181	0.0150	0.0428	0.0534	62%	0	0	Stable	Non-Parametric (Pooled Background Data)	2/18/2025	0.0161	Yes	0.094	NA	2	2	NA	NA
WAP-1	25/25	0%	NA	0.04	0.04	0.08	0.094	63%	0	0	Stable		2/18/2025	0.0403	Yes		NA			NA	NA
WAP-2	25/25	0%	NA	0.2770	0.3090	0.4070	0.436	38%	0	0	Stable	NA	2/18/2025	0.0922	Yes		No			NA	No
WAP-3	25/25	0%	NA	0.1030	0.0880	0.1970	0.224	53%	0	0	No Trend	NA	2/24/2025	0.172	Yes		Yes			NA	No
WAP-12	23/23	0%	NA	0.0413	0.0360	0.0802	0.0871	45%	0	0	Probably Increasing	NA	3/7/2025	0.0821	Yes		No			NA	No
WAP-13	23/23	0%	NA	0.2650	0.2630	0.3180	0.34	12%	0	0	Probably Decreasing	NA	2/24/2025	0.251	Yes		Yes			NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																					
WBW-1	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0005	No	0.0005	NA	0.004	0.004	NA	NA
WAP-1	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/18/2025	0.0005	No		NA			NA	NA
WAP-2	4/19	79%	0.0005 - 0.0005	0.0006	0.0005	0.0013	0.0017	50%	0	0	No Trend	NA	2/18/2025	0.00078	Yes		Yes			NA	No
WAP-3	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	NA	2/24/2025	0.0005	No		No			NA	No
WAP-12	1/19	95%	0.0005 - 0.005	0.0007	0.0005	0.0011	0.00065	138%	0	1	Not Evaluated	NA	3/7/2025	0.0005	No		No			NA	No
WAP-13	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	NA	2/24/2025	0.0005	No		No			NA	No
CCR Appendix IV: Cadmium, Total (mg/L)																					
WBW-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0005	No	0.0005	NA	0.005	0.005	NA	NA
WAP-1	0/24	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/18/2025	0.0005	No		NA			NA	NA
WAP-2	0/24	100%	0.0005 - 0.002	0.0006	0.0005	0.0005	NA	54%	0	0	Not Evaluated	NA	2/18/2025	0.0005	No		No			NA	No
WAP-3	0/24	100%	0.0005 - 0.002	0.0006	0.0005	0.0005	NA	54%	0	0	Not Evaluated	NA	2/24/2025	0.0005	No		No			NA	No
WAP-12	0/20	100%	0.0005 - 0.005	0.0008	0.0005	0.0022	NA	130%	0	0	Not Evaluated	NA	3/7/2025	0.0005	No		No			NA	No
WAP-13	0/20	100%	0.0005 - 0.002	0.0006	0.0005	0.0006	NA	58%	0	0	Not Evaluated	NA	2/24/2025	0.0005	No		No			NA	No

TABLE 1
FEBRUARY AND MARCH 2025 SEMIANNUAL MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Chromium, Total (mg/L)																					
WBW-1	1/22	96%	0.005 - 0.005	0.005	0.005	0.005	0.005	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No		NA			NA	NA
WAP-1	0/24	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA	NA
WAP-2	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	NA	2/18/2025	0.005	No	0.005	No	0.1	0.1	NA	No
WAP-3	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
WAP-12	0/20	100%	0.005 - 0.05	0.008	0.005	0.012	NA	134%	0	0	Not Evaluated	NA	3/7/2025	0.005	No		No			NA	No
WAP-13	0/20	100%	0.005 - 0.01	0.005	0.005	0.005	NA	21%	0	0	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
CCR Appendix IV: Cobalt, Total (mg/L)																					
WBW-1	8/23	65%	0.0005 - 0.0005	0.0012	0.0005	0.0031	0.00838	148%	1	0	Decreasing	Non-Parametric (Pooled Background Data)	2/18/2025	0.00061	Yes		NA			NA	NA
WAP-1	10/23	57%	0.0005 - 0.0005	0.0007	0.0005	0.0015	0.0016	51%	0	0	Probably Decreasing		2/18/2025	0.00065	Yes		NA			NA	NA
WAP-2	5/20	75%	0.0005 - 0.0005	0.0024	0.0005	0.0095	0.0175	183%	3	0	No Trend	NA	2/18/2025	0.0071	Yes	0.00838	No	0.006	0.00838	NA	No
WAP-3	10/20	50%	0.0005 - 0.0005	0.0008	0.0005	0.0018	0.0025	66%	0	0	No Trend	NA	2/24/2025	0.0013	Yes		No			NA	No
WAP-12	11/20	45%	0.0005 - 0.0005	0.0011	0.0006	0.0024	0.00505	98%	0	0	No Trend	NA	3/7/2025	0.0019	Yes		No			NA	No
WAP-13	11/20	45%	0.0005 - 0.0005	0.0006	0.0005	0.0008	0.00111	25%	0	0	Stable	NA	2/24/2025	0.0005	No		No			NA	No
CCR Appendix IV: Fluoride, Total (mg/L)																					
WBW-1	1/24	96%	0.1 - 0.1	0.100	0.100	0.100	0.1	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.1	No		NA			NA	NA
WAP-1	2/24	92%	0.1 - 0.1	0.103	0.100	0.125	0.14	10%	0	0	Not Evaluated		2/18/2025	0.1	No		NA			NA	NA
WAP-2	3/24	88%	0.1 - 0.1	0.110	0.100	0.135	0.28	34%	0	0	Stable	NA	2/18/2025	0.1	No	0.14	No	4	4	NA	No
WAP-3	14/24	42%	0.1 - 0.1	0.13	0.11	0.21	0.22	31%	0	0	Stable	NA	2/24/2025	0.102	Yes		No			NA	No
WAP-12	1/24	96%	0.1 - 0.1	0.103	0.100	0.100	0.16	12%	0	0	Not Evaluated	NA	3/7/2025	0.1	No		No			NA	No
WAP-13	8/24	67%	0.1 - 0.1	0.116	0.100	0.194	0.21	27%	0	0	No Trend	NA	2/24/2025	0.1	No		No			NA	No
CCR Appendix IV: Lead, Total (mg/L)																					
WBW-1	0/22	100%	0.001 - 0.01	0.002	0.001	0.010	NA	121%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.001	No		NA			NA	NA
WAP-1	4/24	83%	0.001 - 0.01	0.002	0.001	0.004	0.00456	103%	0	0	Not Evaluated		2/18/2025	0.001	No		NA			NA	NA
WAP-2	0/24	100%	0.001 - 0.0025	0.001	0.001	0.003	NA	47%	0	0	Not Evaluated	NA	2/18/2025	0.001	No	0.01	No	0.015	0.015	NA	No
WAP-3	0/24	100%	0.001 - 0.0025	0.001	0.001	0.003	NA	47%	0	0	Not Evaluated	NA	2/24/2025	0.001	No		No			NA	No
WAP-12	0/20	100%	0.001 - 0.025	0.003	0.001	0.011	NA	185%	0	1	Not Evaluated	NA	3/7/2025	0.001	No		No			NA	No
WAP-13	0/20	100%	0.001 - 0.01	0.002	0.001	0.003	NA	108%	0	0	Not Evaluated	NA	2/24/2025	0.001	No		No			NA	No
CCR Appendix IV: Lithium, Total (mg/L)																					
WBW-1	1/23	96%	0.005 - 0.01	0.0089	0.0100	0.0100	0.0099	24%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No		NA			NA	NA
WAP-1	1/23	96%	0.005 - 0.01	0.0088	0.0100	0.0100	0.0116	26%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA	NA
WAP-2	11/20	45%	0.01 - 0.01	0.0128	0.0100	0.0211	0.0385	53%	0	0	No Trend	NA	2/18/2025	0.0089	Yes	0.0116	No	0.04	0.04	NA	No
WAP-3	6/20	70%	0.005 - 0.01	0.0123	0.0100	0.0231	0.0259	43%	0	0	Probably Increasing	NA	2/24/2025	0.0175	Yes		Yes			NA	No
WAP-12	0/20	100%	0.005 - 0.05	0.0105	0.0100	0.0120	NA	91%	0	1	Not Evaluated	NA	3/7/2025	0.005	No		No			NA	No
WAP-13	12/20	40%	0.01 - 0.01	0.0257	0.0120	0.1320	0.151	155%	2	0	Increasing	NA	2/24/2025	0.0144	Yes		Yes			NA	No

TABLE 1
FEBRUARY AND MARCH 2025 SEMIANNUAL MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Mercury, Total (mg/L)																					
WBW-1	1/21	95%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.0002	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0002	No		NA			NA	NA
WAP-1	0/21	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		2/18/2025	0.0002	No		NA			NA	NA
WAP-2	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	2/18/2025	0.0002	No	0.0002	No	0.002	0.002	NA	No
WAP-3	1/19	95%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.000259	7%	0	0	Not Evaluated	NA	2/24/2025	0.0002	No		No			NA	No
WAP-12	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	3/7/2025	0.0002	No		No			NA	No
WAP-13	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	2/24/2025	0.0002	No		No			NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																					
WBW-1	0/23	100%	0.005 - 0.01	0.009	0.010	0.010	NA	26%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No					NA	NA
WAP-1	0/23	100%	0.005 - 0.05	0.011	0.010	0.010	NA	83%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA	NA
WAP-17	0/19	100%	0.005 - 0.01	0.009	0.010	0.010	NA	26%	0	0	Not Evaluated	NA	2/24/2025	0.005	No	0.05	No	0.1	0.1	NA	No
WAP-18	0/19	100%	0.005 - 0.01	0.008	0.010	0.010	NA	28%	0	0	Not Evaluated	NA	2/18/2025	0.005	No		No			NA	No
WAP-19	0/19	100%	0.005 - 0.01	0.008	0.010	0.010	NA	28%	0	0	Not Evaluated	NA	2/24/2025	0.005	No		No			NA	No
WAP-9	0/19	100%	0.005 - 0.01	0.009	0.010	0.010	NA	26%	0	0	Not Evaluated	NA	3/7/2025	0.005	No		No			NA	No
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																					
WBW-1	15/22	32%	0 - 4	2.96	4.00	4.33	4.39	50%	0	0	Stable	Non-Parametric (Pooled Background Data)	2/18/2025	1.45	Yes		NA			NA	NA
WAP-1	17/22	23%	4-4	3.3	4.0	5.7	5.97	47%	4	0	Stable		2/18/2025	1.88	Yes		NA			NA	NA
WAP-2	23/24	4%	4-4	6.06	5.82	8.48	12.1	35%	18	0	Stable	NA	2/18/2025	1.61	Yes	5.97	No	5	5.97	NA	No
WAP-3	18/22	18%	4-4	3.41	4.00	4.62	6.56	40%	1	0	Stable	NA	2/24/2025	1.59	Yes		No			NA	No
WAP-12	22/22	0%	4-4	4.35	4.33	6.49	6.71	37%	8	0	No Trend	NA	3/7/2025	5.79	Yes		No			NA	No
WAP-13	19/22	14%	4-4	3.87	3.96	5.98	6.35	30%	3	0	Stable	NA	2/24/2025	3.4	Yes		No			NA	No
CCR Appendix IV: Selenium, Total (mg/L)																					
WBW-1	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	42%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.01	No		NA			NA	NA
WAP-1	0/23	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	38%	0	0	Not Evaluated		2/18/2025	0.01	No		NA			NA	NA
WAP-2	0/23	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated	NA	2/18/2025	0.01	No	0.02	No	0.05	0.05	NA	No
WAP-3	0/23	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated	NA	2/24/2025	0.01	No		No			NA	No
WAP-12	0/19	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	46%	0	0	Not Evaluated	NA	3/7/2025	0.01	No		No			NA	No
WAP-13	0/19	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	46%	0	0	Not Evaluated	NA	2/24/2025	0.01	No		No			NA	No

TABLE 1
FEBRUARY AND MARCH 2025 SEMIANNUAL MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Thalium, Total (mg/L)																					
WBW-1	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.001	No	0.001	NA	0.002	0.002	NA	NA
WAP-1	0/20	100%	0.0001 - 0.001	0.001	0.001	0.001	NA	21%	0	0	Not Evaluated		2/18/2025	0.001	No		NA			NA	NA
WAP-2	0/18	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	2/18/2025	0.001	No		No			NA	No
WAP-3	0/18	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	2/24/2025	0.001	No		No			NA	No
WAP-12	0/18	100%	0.001 - 0.01	0.002	0.001	0.002	NA	141%	0	1	Not Evaluated	NA	3/7/2025	0.001	No		No			NA	No
WAP-13	0/18	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	2/24/2025	0.001	No		No			NA	No

Notes:

[a] Mann-Kendall Trends calculated from the 8 most recent samples at a 95% confidence limits and trend classifications are determined based on guidance from the Monitoring and Remediation Optimization System (Aziz, 2003). Recent trend date ranges vary by well/constituent and are included in Attachment A, Table A-4. 'Probably increasing' and 'probably decreasing' trends indicate that while no statistically significant trend was identified at the indicated confidence level, data suggest emerging trends at a lower confidence level. Data sets that do not meet test requirements, such as having a detection rate of at least 25%, are labeled as 'Not Evaluated'.

[b] Interwell Tolerance Limits are calculated from data collected from pooled upgradient well data (WBW-1 and WAP-1) through July 2024. No statistical outlier data points were removed from background datasets.

MCL/RSL: Maximum contaminant level/Regional screening level

mg/L: milligrams per liter, pCi/L: picocuries per liter

NA: not applicable

ATTACHMENT A
Statistical Output, February and March 2025

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
Pooled Background	Antimony	mg/L	42	42	100	0.025	0.002	0.00588	0.005	0.0044	74	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-1 (Background)	Antimony	mg/L	21	21	100	0.025	0.002	0.00581	0.005	0.0044	76.5	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-12	Antimony	mg/L	19	19	100	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-10 to 2025-03-07
WAP-13	Antimony	mg/L	19	19	100	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-10 to 2025-02-24
WAP-2	Antimony	mg/L	19	19	100	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-3	Antimony	mg/L	19	18	95	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-11 to 2025-02-24
WBW-1 (Background)	Antimony	mg/L	21	21	100	0.025	0.005	0.00595	0.005	0.0044	73.3	0.005 - 0.025	2015-11-10 to 2025-02-18
Pooled Background	Arsenic	mg/L	48	42	88	0.0096	0.003	0.00496	0.005	0.0013	26.5	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Arsenic	mg/L	25	19	76	0.0096	0.003	0.00541	0.005	0.0015	27.6	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-12	Arsenic	mg/L	20	15	75	0.03	0.003	0.00614	0.005	0.0057	93.6	0.003 - 0.03	2015-11-10 to 2025-03-07
WAP-13	Arsenic	mg/L	20	17	85	0.0103	0.003	0.00481	0.005	0.0016	33.1	0.003 - 0.005	2015-11-10 to 2025-02-24
WAP-2	Arsenic	mg/L	25	18	72	0.0712	0.003	0.0118	0.005	0.016	135	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-3	Arsenic	mg/L	24	24	100	0.005	0.003	0.00458	0.005	0.00083	18.1	0.003 - 0.005	2015-11-11 to 2025-02-24
WBW-1 (Background)	Arsenic	mg/L	23	23	100	0.005	0.003	0.00448	0.005	0.0009	20.1	0.003 - 0.005	2015-11-10 to 2025-02-18
Pooled Background	Barium	mg/L	48	0	0	0.094	0.0058	0.0306	0.0214	0.024	77.9	NA	2015-11-10 to 2025-02-18
WAP-1 (Background)	Barium	mg/L	25	0	0	0.094	0.0058	0.0422	0.0434	0.027	63.2	NA	2015-11-10 to 2025-02-18
WAP-12	Barium	mg/L	23	0	0	0.0871	0.0156	0.0413	0.036	0.018	44.6	NA	2015-11-10 to 2025-03-07
WAP-13	Barium	mg/L	23	0	0	0.34	0.196	0.265	0.263	0.031	11.7	NA	2015-11-10 to 2025-02-24
WAP-2	Barium	mg/L	25	0	0	0.436	0.00148	0.277	0.309	0.1	37.7	NA	2015-11-10 to 2025-02-18
WAP-3	Barium	mg/L	25	0	0	0.224	0.0284	0.103	0.088	0.055	53.1	NA	2015-11-11 to 2025-02-24
WBW-1 (Background)	Barium	mg/L	23	0	0	0.0534	0.0072	0.0181	0.015	0.011	62	NA	2015-11-10 to 2025-02-18
Pooled Background	Beryllium	mg/L	42	42	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-12	Beryllium	mg/L	19	18	95	0.005	0.0005	0.000745	0.0005	0.001	138	0.0005 - 0.005	2015-11-10 to 2025-03-07
WAP-13	Beryllium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-24
WAP-2	Beryllium	mg/L	19	15	79	0.0017	0.0005	0.000618	0.0005	0.00031	50.4	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-3	Beryllium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-02-24
WBW-1 (Background)	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Cadmium	mg/L	46	46	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Cadmium	mg/L	24	24	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-12	Cadmium	mg/L	20	20	100	0.005	0.0005	0.0008	0.0005	0.001	130	0.0005 - 0.005	2015-11-10 to 2025-03-07
WAP-13	Cadmium	mg/L	20	20	100	0.002	0.0005	0.000575	0.0005	0.00034	58.3	0.0005 - 0.002	2015-11-10 to 2025-02-24
WAP-2	Cadmium	mg/L	24	24	100	0.002	0.0005	0.000563	0.0005	0.00031	54.4	0.0005 - 0.002	2015-11-10 to 2025-02-18
WAP-3	Cadmium	mg/L	24	24	100	0.002	0.0005	0.000563	0.0005	0.00031	54.4	0.0005 - 0.002	2015-11-11 to 2025-02-24
WBW-1 (Background)	Cadmium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Chromium	mg/L	46	45	98	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Chromium	mg/L	24	24	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
WAP-12	Chromium	mg/L	20	20	100	0.05	0.005	0.0075	0.005	0.01	134	0.005 - 0.05	2015-11-10 to 2025-03-07
WAP-13	Chromium	mg/L	20	20	100	0.01	0.005	0.00525	0.005	0.0011	21.3	0.005 - 0.01	2015-11-10 to 2025-02-24
WAP-2	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-3	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-11-11 to 2025-02-24
WBW-1 (Background)	Chromium	mg/L	22	21	95	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
Pooled Background	Cobalt	mg/L	46	28	61	0.00838	0.0005	0.000942	0.0005	0.0013	133	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Cobalt	mg/L	23	13	57	0.0016	0.0005	0.000715	0.0005	0.00036	50.7	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-12	Cobalt	mg/L	20	9	45	0.00505	0.0005	0.00111	0.00058	0.0011	97.7	0.0005 - 0.0005	2015-11-10 to 2025-03-07
WAP-13	Cobalt	mg/L	20	9	45	0.00111	0.0005	0.00058	0.000515	0.00015	25.1	0.0005 - 0.0005	2015-11-10 to 2025-02-24
WAP-2	Cobalt	mg/L	20	15	75	0.0175	0.0005	0.00236	0.0005	0.0043	183	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-3	Cobalt	mg/L	20	10	50	0.0025	0.0005	0.000804	0.000515	0.00053	65.5	0.0005 - 0.0005	2015-11-11 to 2025-02-24
WBW-1 (Background)	Cobalt	mg/L	23	15	65	0.00838	0.0005	0.00117	0.0005	0.0017	148	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Fluoride	mg/L	48	45	94	0.14	0.1	0.101	0.1	0.0071	7.04	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-1 (Background)	Fluoride	mg/L	24	22	92	0.14	0.1	0.103	0.1	0.01	9.71	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-12	Fluoride	mg/L	24	23	96	0.16	0.1	0.103	0.1	0.012	11.9	0.1 - 0.1	2015-11-10 to 2025-03-07
WAP-13	Fluoride	mg/L	24	16	67	0.21	0.1	0.116	0.1	0.031	26.8	0.1 - 0.1	2015-11-10 to 2025-02-24
WAP-2	Fluoride	mg/L	24	21	88	0.28	0.1	0.11	0.1	0.037	34	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-3	Fluoride	mg/L	24	10	42	0.22	0.1	0.127	0.106	0.039	30.8	0.1 - 0.1	2015-11-11 to 2025-02-24
WBW-1 (Background)	Fluoride	mg/L	24	23	96	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-10 to 2025-02-18

Notes: Data collected through the current reporting period are summarized in this table. Data sets used to calculate background limits are summarized in Table A-5 and may not include all data summarized here because background limits are only updated periodically.

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
Pooled Background	Lead	mg/L	46	42	91	0.01	0.001	0.00202	0.001	0.0023	112	0.001 - 0.01	2015-11-10 to 2025-02-18
WAP-1 (Background)	Lead	mg/L	24	20	83	0.01	0.001	0.00189	0.001	0.0019	103	0.001 - 0.01	2015-11-10 to 2025-02-18
WAP-12	Lead	mg/L	20	20	100	0.025	0.001	0.003	0.001	0.0056	185	0.001 - 0.025	2015-11-10 to 2025-03-07
WAP-13	Lead	mg/L	20	20	100	0.01	0.001	0.00187	0.001	0.002	108	0.001 - 0.01	2015-11-10 to 2025-02-24
WAP-2	Lead	mg/L	24	24	100	0.0025	0.001	0.00135	0.001	0.00063	46.8	0.001 - 0.0025	2015-11-10 to 2025-02-18
WAP-3	Lead	mg/L	24	24	100	0.0025	0.001	0.00135	0.001	0.00063	46.8	0.001 - 0.0025	2015-11-11 to 2025-02-24
WBW-1 (Background)	Lead	mg/L	22	22	100	0.01	0.001	0.00216	0.001	0.0026	121	0.001 - 0.01	2015-11-10 to 2025-02-18
Pooled Background	Lithium	mg/L	46	44	96	0.0116	0.005	0.00884	0.01	0.0022	24.8	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-1 (Background)	Lithium	mg/L	23	22	96	0.0116	0.005	0.00877	0.01	0.0023	26.4	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-12	Lithium	mg/L	20	20	100	0.05	0.005	0.0105	0.01	0.0096	91.3	0.005 - 0.05	2015-11-10 to 2025-03-07
WAP-13	Lithium	mg/L	20	8	40	0.151	0.00863	0.0257	0.012	0.04	155	0.01 - 0.01	2015-11-10 to 2025-02-24
WAP-2	Lithium	mg/L	20	9	45	0.0385	0.00732	0.0128	0.01	0.0068	52.8	0.01 - 0.01	2015-11-10 to 2025-02-18
WAP-3	Lithium	mg/L	20	14	70	0.0259	0.005	0.0123	0.01	0.0053	42.6	0.005 - 0.01	2015-11-11 to 2025-02-24
WBW-1 (Background)	Lithium	mg/L	23	22	96	0.01	0.005	0.00891	0.01	0.0021	23.6	0.005 - 0.01	2015-11-10 to 2025-02-18
Pooled Background	Mercury	mg/L	42	41	98	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-1 (Background)	Mercury	mg/L	21	21	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-12	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-03-07
WAP-13	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-24
WAP-2	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-3	Mercury	mg/L	19	18	95	0.000259	0.0002	0.000203	0.0002	1.4e-05	6.66	0.0002 - 0.0002	2015-11-11 to 2025-02-24
WBW-1 (Background)	Mercury	mg/L	21	20	95	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
Pooled Background	Molybdenum	mg/L	46	46	100	0.05	0.005	0.00967	0.01	0.0064	66.6	0.005 - 0.05	2015-11-10 to 2025-02-18
WAP-1 (Background)	Molybdenum	mg/L	23	23	100	0.01	0.005	0.0087	0.01	0.0022	25.8	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-12	Molybdenum	mg/L	19	19	100	0.01	0.005	0.00868	0.01	0.0023	26	0.005 - 0.01	2015-11-10 to 2025-03-07
WAP-13	Molybdenum	mg/L	19	19	100	0.01	0.005	0.00868	0.01	0.0023	26	0.005 - 0.01	2015-11-10 to 2025-02-24
WAP-2	Molybdenum	mg/L	19	19	100	0.01	0.005	0.00842	0.01	0.0024	28.4	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-3	Molybdenum	mg/L	19	19	100	0.01	0.005	0.00842	0.01	0.0024	28.4	0.005 - 0.01	2015-11-11 to 2025-02-24
WBW-1 (Background)	Molybdenum	mg/L	23	23	100	0.05	0.005	0.0107	0.01	0.0088	82.9	0.005 - 0.05	2015-11-10 to 2025-02-18
Pooled Background	Radium-226 & 228	pCi/L	46	12	26	5.97	0	3.08	4	1.5	48.9	0 - 4	2015-11-10 to 2025-02-18
WAP-1 (Background)	Radium-226 & 228	pCi/L	23	5	22	5.97	0.952	3.28	4	1.6	47.6	4 - 4	2015-11-10 to 2025-02-18
WAP-12	Radium-226 & 228	pCi/L	23	0	0	6.71	0.84	4.42	4.4	1.6	35.9	NA	2015-11-10 to 2025-03-07
WAP-13	Radium-226 & 228	pCi/L	23	3	13	6.35	1.84	3.85	3.91	1.1	29.5	4 - 4	2015-11-10 to 2025-02-24
WAP-2	Radium-226 & 228	pCi/L	25	1	4	12.1	1.61	5.88	5.8	2.2	38.1	4 - 4	2015-11-10 to 2025-02-18
WAP-3	Radium-226 & 228	pCi/L	23	4	17	6.56	0.358	3.33	4	1.4	42	4 - 4	2015-11-11 to 2025-02-24
WBW-1 (Background)	Radium-226 & 228	pCi/L	23	7	30	4.39	0	2.89	4	1.5	50.7	0 - 4	2015-11-10 to 2025-02-18
Pooled Background	Selenium	mg/L	46	46	100	0.02	0.0025	0.011	0.01	0.0043	38.8	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-1 (Background)	Selenium	mg/L	24	24	100	0.02	0.0025	0.0107	0.01	0.004	37.3	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-12	Selenium	mg/L	20	20	100	0.02	0.0025	0.0111	0.01	0.005	45.2	0.0025 - 0.02	2015-11-10 to 2025-03-07
WAP-13	Selenium	mg/L	20	20	100	0.02	0.0025	0.0111	0.01	0.005	45.2	0.0025 - 0.02	2015-11-10 to 2025-02-24
WAP-2	Selenium	mg/L	24	24	100	0.02	0.0025	0.0105	0.01	0.0042	39.6	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-3	Selenium	mg/L	24	24	100	0.02	0.0025	0.0105	0.01	0.0042	39.6	0.0025 - 0.02	2015-11-11 to 2025-02-24
WBW-1 (Background)	Selenium	mg/L	22	22	100	0.02	0.0025	0.0112	0.01	0.0046	41	0.0025 - 0.02	2015-11-10 to 2025-02-18
Pooled Background	Thallium	mg/L	42	42	100	0.001	0.0001	0.000979	0.001	0.00014	14.2	0.0001 - 0.001	2015-11-10 to 2025-02-18
WAP-1 (Background)	Thallium	mg/L	21	21	100	0.001	0.0001	0.000957	0.001	0.0002	20.5	0.0001 - 0.001	2015-11-10 to 2025-02-18
WAP-12	Thallium	mg/L	19	19	100	0.01	0.001	0.00147	0.001	0.0021	140	0.001 - 0.01	2015-11-10 to 2025-03-07
WAP-13	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-02-24
WAP-2	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-02-18
WAP-3	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-02-24
WBW-1 (Background)	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-02-18

Notes: Data collected through the current reporting period are summarized in this table. Data sets used to calculate background limits are summarized in Table A-5 and may not include all data summarized here because background limits are only updated periodically.

Table A-2. Results of Shapiro-Wilk Test for Normality

		Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Antimony	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-12	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-13	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-2	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-3	Antimony	0.393	6.5e-08	19	18	Not normal
WBW-1 (Background)	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results
Pooled Background	Arsenic	0.543	5.3e-11	48	42	Not normal
WAP-1 (Background)	Arsenic	0.648	1.6e-06	25	19	Not normal
WAP-12	Arsenic	0.671	1.8e-05	20	15	Not normal
WAP-13	Arsenic	0.589	2.3e-06	20	17	Not normal
WAP-2	Arsenic	0.563	1.7e-07	25	18	Not normal
WAP-3	Arsenic	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Arsenic	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Barium	0.853	2.7e-05	48	0	Not normal
WAP-1 (Background)	Barium	0.940	0.15	25	0	Normal
WAP-12	Barium	0.913	0.047	23	0	Not normal
WAP-13	Barium	0.973	0.76	23	0	Normal
WAP-2	Barium	0.896	0.015	25	0	Not normal
WAP-3	Barium	0.931	0.092	25	0	Normal
WBW-1 (Background)	Barium	0.747	6.1e-05	23	0	Not normal
Pooled Background	Beryllium	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-12	Beryllium	0.302	1.3e-08	19	18	Not normal
WAP-13	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-2	Beryllium	0.513	6.6e-07	19	15	Not normal
WAP-3	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-12	Cadmium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Cadmium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-3	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Cadmium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.133	5.4e-15	46	45	Not normal
WAP-1 (Background)	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-12	Chromium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Chromium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-3	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Chromium	0.221	7.4e-10	22	21	Not normal
Pooled Background	Cobalt	0.447	6.2e-12	46	28	Not normal
WAP-1 (Background)	Cobalt	0.729	3.4e-05	23	13	Not normal
WAP-12	Cobalt	0.686	2.7e-05	20	9	Not normal
WAP-13	Cobalt	0.818	0.0016	20	9	Not normal
WAP-2	Cobalt	0.520	4.9e-07	20	15	Not normal
WAP-3	Cobalt	0.749	0.00017	20	10	Not normal
WBW-1 (Background)	Cobalt	0.489	6.8e-08	23	15	Not normal
Pooled Background	Fluoride	0.266	4.1e-14	48	45	Not normal
WAP-1 (Background)	Fluoride	0.321	1.5e-09	24	22	Not normal
WAP-12	Fluoride	0.209	2.2e-10	24	23	Not normal
WAP-13	Fluoride	0.678	5.2e-06	24	16	Not normal
WAP-2	Fluoride	0.366	3.5e-09	24	21	Not normal
WAP-3	Fluoride	0.850	0.0022	24	10	Not normal
WBW-1 (Background)	Fluoride	0.209	2.2e-10	24	23	Not normal
Pooled Background	Lead	0.519	4.5e-11	46	42	Not normal
WAP-1 (Background)	Lead	0.560	2.3e-07	24	20	Not normal
WAP-12	Lead	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Lead	NA	NA	20	20	Not Evaluated - All Non-Detect Results

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
		W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
WAP-2	Lead	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-3	Lead	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Lead	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Lithium	0.616	9.9e-10	46	44	Not normal
WAP-1 (Background)	Lithium	0.611	1.2e-06	23	22	Not normal
WAP-12	Lithium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Lithium	0.487	2.4e-07	20	8	Not normal
WAP-2	Lithium	0.712	5.5e-05	20	9	Not normal
WAP-3	Lithium	0.684	2.5e-05	20	14	Not normal
WBW-1 (Background)	Lithium	0.629	1.9e-06	23	22	Not normal
Pooled Background	Mercury	0.142	2.8e-14	42	41	Not normal
WAP-1 (Background)	Mercury	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-12	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-13	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-2	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-3	Mercury	0.244	5.3e-09	19	18	Not normal
WBW-1 (Background)	Mercury	0.228	1.4e-09	21	20	Not normal
Pooled Background	Molybdenum	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-12	Molybdenum	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-13	Molybdenum	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-2	Molybdenum	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-3	Molybdenum	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Radium-226 & 228	0.891	0.00045	46	12	Not normal
WAP-1 (Background)	Radium-226 & 228	0.834	0.0014	23	5	Not normal
WAP-12	Radium-226 & 228	0.957	0.4	23	0	Normal
WAP-13	Radium-226 & 228	0.938	0.16	23	3	Normal
WAP-2	Radium-226 & 228	0.962	0.46	25	1	Normal
WAP-3	Radium-226 & 228	0.949	0.27	23	4	Normal
WBW-1 (Background)	Radium-226 & 228	0.894	0.019	23	7	Not normal
Pooled Background	Selenium	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Selenium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-12	Selenium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Selenium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Selenium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-3	Selenium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-12	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-13	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-2	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-3	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Table A-3. Results of Rosner/Dixon Test for Outliers

			Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)							
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
Pooled Background	Antimony	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Antimony	19	18	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Arsenic	48	42	Rosner	3.523, 3.198, 3.478	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Arsenic	25	19	Dixon	0.2826	0.4965	NA	NA	No	No
WAP-12	Arsenic	20	15	Dixon	0.8785	0	NA	NA	Yes	No
WAP-13	Arsenic	20	17	Dixon	0.726	0	NA	NA	Yes	No
WAP-2	Arsenic	25	18	Dixon	0.629	0	NA	NA	Yes	No
WAP-3	Arsenic	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Arsenic	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Barium	48	0	Rosner	2.654, 2.329, 2.509	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Barium	25	0	Dixon	0.1511	0.6865	NA	NA	No	No
WAP-12	Barium	23	0	Dixon	0.376	0.1948	NA	NA	No	No
WAP-13	Barium	23	0	Dixon	0.3302	0.343	NA	NA	No	No
WAP-2	Barium	25	0	Dixon	0.3443	0.248	NA	NA	No	No
WAP-3	Barium	25	0	Dixon	0.2048	0.9412	NA	NA	No	No
WBW-1	Barium	23	0	Dixon	0.4943	0.02517	NA	NA	Yes	No
Pooled Background	Beryllium	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Beryllium	19	18	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-13	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Beryllium	19	15	Dixon	0.7667	0	NA	NA	Yes	No
WAP-3	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Cadmium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Cadmium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Cadmium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Cadmium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Chromium	46	45	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Chromium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Chromium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Chromium	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Cobalt	46	28	Rosner	5.931, 4.175, 3.556	NA	3.094, 3.085, 3.076	3	NA	No
WAP-1	Cobalt	23	13	Dixon	0.1727	0.7719	NA	NA	No	No
WAP-12	Cobalt	20	9	Dixon	0.6923	0	NA	NA	Yes	No
WAP-13	Cobalt	20	9	Dixon	0.7705	0	NA	NA	Yes	No
WAP-2	Cobalt	20	15	Dixon	0.6118	0	NA	NA	Yes	No
WAP-3	Cobalt	20	10	Dixon	0.6	0	NA	NA	Yes	No
WBW-1	Cobalt	23	15	Dixon	0.7716	0	NA	NA	Yes	No
Pooled Background	Fluoride	48	45	Rosner	5.396, 6.71, NA	NA	3.112, 3.103, 3.094	2	NA	No
WAP-1	Fluoride	24	22	Dixon	1	0	NA	NA	Yes	No
WAP-12	Fluoride	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-13	Fluoride	24	16	Dixon	0.4545	0.04771	NA	NA	Yes	No
WAP-2	Fluoride	24	21	Dixon	0.9444	0	NA	NA	Yes	No
WAP-3	Fluoride	24	10	Dixon	0.08333	0.2447	NA	NA	No	No
WBW-1	Fluoride	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Lead	46	42	Rosner	3.522, 4.201, 5.53	NA	3.094, 3.085, 3.076	3	NA	No
WAP-1	Lead	24	20	Dixon	0.8333	0	NA	NA	Yes	No
WAP-12	Lead	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Lead	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Lead	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Lead	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Lead	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Lithium	46	44	Rosner	1.754, 1.838, 1.936	NA	3.094, 3.085, 3.076	0	NA	No
WAP-1	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-12	Lithium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Lithium	20	8	Dixon	0.856	0	NA	NA	Yes	No
WAP-2	Lithium	20	9	Dixon	0.7684	0	NA	NA	Yes	No
WAP-3	Lithium	20	14	Dixon	0.3082	0.5355	NA	NA	No	No
WBW-1	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Mercury	42	41	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Mercury	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Mercury	19	18	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Mercury	21	20	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Molybdenum	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Molybdenum	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Molybdenum	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
WAP-2	Molybdenum	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Molybdenum	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Radium-226 & 228	46	12	Rosner	2.045, 1.941, 1.89	NA	3.094, 3.085, 3.076	0	NA	No
WAP-1	Radium-226 & 228	23	5	Dixon	0.2022	0.9681	NA	NA	No	No
WAP-12	Radium-226 & 228	23	0	Dixon	0.1906	0.8912	NA	NA	No	No
WAP-13	Radium-226 & 228	23	3	Dixon	0.1439	0.587	NA	NA	No	No
WAP-2	Radium-226 & 228	25	1	Dixon	0.4139	0.08751	NA	NA	No	No
WAP-3	Radium-226 & 228	23	4	Dixon	0.4361	0.07808	NA	NA	No	No
WBW-1	Radium-226 & 228	23	7	Dixon	0.1449	0.5931	NA	NA	No	No
Pooled Background	Selenium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Selenium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Selenium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Selenium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Selenium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Selenium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Thallium	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall Test

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
Pooled Background	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0.74	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.765	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0.229	NA	NA	NA	NA
WAP-12	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.793	NA	NA	NA	NA	8	0	2017-09-20 to 2025-03-07	0.229	NA	NA	NA	NA
WAP-13	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.793	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0.229	NA	NA	NA	NA
WAP-2	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.793	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-18	0.229	NA	NA	NA	NA
WAP-3	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	19	1	0.774	NA	NA	NA	NA	8	1	2017-09-20 to 2025-02-24	0.417	NA	NA	NA	NA
WBW-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.733	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Stable	48	6	0.621	NA	NA	NA	NA	8	3	2022-07-06 to 2025-02-18	0.709	-0.161	0.69	31	-4
WAP-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	25	6	0.65	NA	NA	NA	NA	8	5	2019-05-30 to 2025-02-18	0.521	0.189	0.61	39	5
WAP-12	Arsenic	Decreasing	Not Evaluated - No detected results.	20	5	0.839	-0.363	0.0424	95.8	-59	8	0	2018-06-05 to 2025-03-07	1.25	NA	NA	NA	NA
WAP-13	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	20	3	0.7	NA	NA	NA	NA	8	1	2018-06-04 to 2025-02-24	0.575	NA	NA	NA	NA
WAP-2	Arsenic	Increasing	No Trend	25	7	1.65	0.592	0.000184	100	142	8	7	2020-02-03 to 2025-02-18	0.848	0.286	0.386	61.4	8
WAP-3	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.181	NA	NA	NA	NA	8	0	2019-06-24 to 2025-02-24	0.244	NA	NA	NA	NA
WBW-1 (Background)	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.201	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.267	NA	NA	NA	NA
Pooled Background	Barium	Increasing	Stable	48	48	0.779	0.297	0.00307	99.7	334	8	8	2022-07-06 to 2025-02-18	0.594	-0.5	0.108	89.2	-14
WAP-1 (Background)	Barium	Increasing	Stable	25	25	0.632	0.471	0.00107	99.9	141	8	8	2019-05-30 to 2025-02-18	0.256	-0.0364	1	0	-1
WAP-12	Barium	Decreasing	Probably Increasing	23	23	0.446	-0.352	0.0201	98	-89	8	8	2019-06-20 to 2025-03-07	0.664	0.571	0.0635	93.7	16
WAP-13	Barium	No Trend	Probably Decreasing	23	23	0.117	0.131	0.398	60.2	33	8	8	2019-06-24 to 2025-02-24	0.0698	-0.571	0.0635	93.7	-16
WAP-2	Barium	Stable	Stable	25	25	0.377	-0.12	0.414	58.6	-36	8	8	2019-06-20 to 2025-02-18	0.56	-0.5	0.108	89.2	-14
WAP-3	Barium	Increasing	No Trend	25	25	0.531	0.487	0.000708	99.9	146	8	8	2019-06-24 to 2025-02-24	0.221	0.5	0.108	89.2	14
WBW-1 (Background)	Barium	No Trend	Stable	23	23	0.62	0.159	0.303	69.7	40	8	8	2019-05-30 to 2025-02-18	0.492	-0.357	0.266	73.4	-10
Pooled Background	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
WAP-12	Beryllium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	19	1	1.33	NA	NA	NA	NA	8	0	2017-09-20 to 2025-03-07	1.5	NA	NA	NA	NA
WAP-13	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0	NA	NA	NA	NA
WAP-2	Beryllium	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	19	4	0.942	NA	NA	NA	NA	8	4	2017-09-20 to 2025-02-18	0.828	0.403	0.232	76.8	10
WAP-3	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0	NA	NA	NA	NA
WBW-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
WAP-12	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.3	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-07	1.5	NA	NA	NA	NA
WAP-13	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.583	NA	NA	NA	NA	8	0	2018-06-04 to 2025-02-24	0	NA	NA	NA	NA
WAP-2	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.544	NA	NA	NA	NA	8	0	2019-06-20 to 2025-02-18	0	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-3	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.544	NA	NA	NA	NA	8	0	2019-06-24 to 2025-02-24	0	NA	NA	NA	NA
WBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	46	1	0.144	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
WAP-12	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.34	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-07	1.5	NA	NA	NA	NA
WAP-13	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.213	NA	NA	NA	NA	8	0	2018-06-04 to 2025-02-24	0	NA	NA	NA	NA
WAP-2	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2019-06-20 to 2025-02-18	0	NA	NA	NA	NA
WAP-3	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2019-06-24 to 2025-02-24	0	NA	NA	NA	NA
WBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.204	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-18	0.314	NA	NA	NA	NA
Pooled Background	Cobalt	Increasing	Stable	46	18	1.66	0.532	0.00000226	100	439	8	8	2022-07-06 to 2025-02-18	0.556	-0.357	0.266	73.4	-10
WAP-1 (Background)	Cobalt	Increasing	Probably Decreasing	23	10	0.8	0.537	0.00103	99.9	113	8	8	2019-05-30 to 2025-02-18	0.401	-0.571	0.0635	93.7	-16
WAP-12	Cobalt	Probably Increasing	No Trend	20	11	1.16	0.339	0.0517	94.8	58	8	7	2018-06-05 to 2025-03-07	0.805	0.214	0.536	46.4	6
WAP-13	Cobalt	Probably Decreasing	Stable	20	11	0.508	-0.334	0.0558	94.4	-57	8	4	2018-06-04 to 2025-02-24	0.392	-0.483	0.144	85.6	-12
WAP-2	Cobalt	Increasing	No Trend	20	5	2.03	0.574	0.00198	99.8	73	8	5	2018-06-04 to 2025-02-18	1.2	0.491	0.126	87.4	13
WAP-3	Cobalt	No Trend	No Trend	20	10	0.9	0.223	0.21	79	37	8	5	2018-06-04 to 2025-02-24	0.618	0.265	0.445	55.5	7
WBW-1 (Background)	Cobalt	Increasing	Decreasing	23	8	1.78	0.517	0.00199	99.8	100	8	8	2019-05-30 to 2025-02-18	1.06	-0.714	0.0187	98.1	-20
Pooled Background	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	48	3	0.338	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	2	0.421	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
WAP-12	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.411	NA	NA	NA	NA	8	0	2019-06-20 to 2025-03-07	0	NA	NA	NA	NA
WAP-13	Fluoride	No Trend	No Trend	24	8	0.625	0.127	0.457	54.3	26	8	4	2019-06-24 to 2025-02-24	0.46	0.338	0.344	65.6	8
WAP-2	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Stable	24	3	0.767	NA	NA	NA	NA	8	2	2019-06-20 to 2025-02-18	0.94	-0.0524	1	0	-1
WAP-3	Fluoride	Stable	Stable	24	14	0.544	-0.0602	0.717	28.3	-15	8	4	2019-06-24 to 2025-02-24	0.4	-0.0806	0.894	10.6	-2
WBW-1 (Background)	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.196	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	46	4	1.12	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0.505	NA	NA	NA	NA
WAP-1 (Background)	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	4	1.06	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.497	NA	NA	NA	NA
WAP-12	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.85	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-07	1.54	NA	NA	NA	NA
WAP-13	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.08	NA	NA	NA	NA	8	0	2018-06-04 to 2025-02-24	1.13	NA	NA	NA	NA
WAP-2	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.468	NA	NA	NA	NA	8	0	2019-06-20 to 2025-02-18	0.497	NA	NA	NA	NA
WAP-3	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.468	NA	NA	NA	NA	8	0	2019-06-24 to 2025-02-24	0.497	NA	NA	NA	NA
WBW-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	1.21	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	1.13	NA	NA	NA	NA
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	46	2	0.366	NA	NA	NA	NA	8	1	2022-07-06 to 2025-02-18	0.764	NA	NA	NA	NA
WAP-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.406	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-12	Lithium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.913	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-07	0.37	NA	NA	NA	NA
WAP-13	Lithium	No Trend	Increasing	20	12	1.72	-0.16	0.364	63.6	-28	8	6	2018-06-04 to 2025-02-24	0.387	0.618	0.0461	95.4	17
WAP-2	Lithium	Increasing	No Trend	20	11	0.767	0.616	0.000381	100	105	8	8	2018-06-04 to 2025-02-18	0.579	0.286	0.386	61.4	8

Note:

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		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-3	Lithium	Increasing	Probably Increasing	20	6	0.797	0.521	0.00406	99.6	76	8	6	2018-06-04 to 2025-02-24	0.567	0.571	0.0635	93.7	16
WBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.332	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-18	0.647	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	42	1	0.151	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
WAP-12	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-03-07	0	NA	NA	NA	NA
WAP-13	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0	NA	NA	NA	NA
WAP-2	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-18	0	NA	NA	NA	NA
WAP-3	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	19	1	0.337	NA	NA	NA	NA	8	1	2017-09-20 to 2025-02-24	0.469	NA	NA	NA	NA
WBW-1 (Background)	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	21	1	0.208	NA	NA	NA	NA	8	1	2019-01-23 to 2025-02-18	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.666	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.258	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-12	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.26	NA	NA	NA	NA	8	0	2017-09-20 to 2025-03-07	0.376	NA	NA	NA	NA
WAP-13	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.26	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0.376	NA	NA	NA	NA
WAP-2	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.284	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-3	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.284	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0.37	NA	NA	NA	NA
WBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.829	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.376	NA	NA	NA	NA
Pooled Background	Radium-226 & 228	Stable	Stable	46	34	0.559	-0.141	0.179	82.1	-142	8	8	2022-07-06 to 2025-02-18	0.427	-0.286	0.386	61.4	-8
WAP-1 (Background)	Radium-226 & 228	Stable	Stable	23	18	0.554	-0.19	0.222	77.8	-47	8	8	2019-05-30 to 2025-02-18	0.508	-0.143	0.711	28.9	-4
WAP-12	Radium-226 & 228	Decreasing	No Trend	23	23	0.359	-0.494	0.00106	99.9	-125	8	8	2019-06-20 to 2025-03-07	0.529	0.5	0.108	89.2	14
WAP-13	Radium-226 & 228	Stable	Stable	23	20	0.361	-0.231	0.132	86.8	-58	8	8	2019-06-24 to 2025-02-24	0.241	-0.429	0.174	82.6	-12
WAP-2	Radium-226 & 228	Probably Decreasing	Stable	25	24	0.404	-0.28	0.0526	94.7	-84	8	8	2020-02-03 to 2025-02-18	0.714	-0.429	0.174	82.6	-12
WAP-3	Radium-226 & 228	Stable	Stable	23	19	0.483	-0.141	0.367	63.3	-35	8	8	2019-06-24 to 2025-02-24	0.459	-0.429	0.174	82.6	-12
WBW-1 (Background)	Radium-226 & 228	Stable	Stable	23	16	0.558	-0.0776	0.631	36.9	-19	8	8	2019-05-30 to 2025-02-18	0.52	-0.0714	0.902	9.8	-2
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.388	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.373	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.524	NA	NA	NA	NA
WAP-12	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.452	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-07	0.572	NA	NA	NA	NA
WAP-13	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.452	NA	NA	NA	NA	8	0	2018-06-04 to 2025-02-24	0.572	NA	NA	NA	NA
WAP-2	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.396	NA	NA	NA	NA	8	0	2019-06-20 to 2025-02-18	0.524	NA	NA	NA	NA
WAP-3	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.396	NA	NA	NA	NA	8	0	2019-06-24 to 2025-02-24	0.524	NA	NA	NA	NA
WBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.41	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.572	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0.142	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.205	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
WAP-12	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.4	NA	NA	NA	NA	8	0	2017-09-20 to 2025-03-07	1.5	NA	NA	NA	NA
WAP-13	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0	NA	NA	NA	NA
WAP-2	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-18	0	NA	NA	NA	NA

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-3	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-20 to 2025-02-24	0	NA	NA	NA	NA
WBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA

Note:

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Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS)

		Interwell Background Data Characterization [a]													Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		
Constituent	Units	n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method	UTL calculation details	Minimum Coverage (%)
Antimony	mg/L	40	40	0.025	NA	0.00593	0.005	2015-11-10	2024-07-01	0.00446	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Arsenic	mg/L	46	40	0.005	0.0096	0.00496	0.005	2015-11-10	2024-07-01	0.00135	0.271	Increasing	Not normal (Interwell Background)	NA - Original Data	0.0096	Yes	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Barium	mg/L	46	0	NA	0.094	0.0307	0.0214	2015-11-10	2024-07-01	0.0243	0.789	Increasing	Not normal (Interwell Background)	NA - Original Data	0.094	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Beryllium	mg/L	40	40	0.0005	NA	0.0005	0.0005	2015-11-10	2024-07-01	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Cadmium	mg/L	44	44	0.0005	NA	0.0005	0.0005	2015-11-10	2024-07-01	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Chromium	mg/L	44	43	0.005	0.005	0.005	0.005	2015-11-10	2024-07-01	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Cobalt	mg/L	44	28	0.0005	0.00838	0.000956	0.0005	2015-11-10	2024-07-01	0.00128	1.34	Increasing	Not normal (Interwell Background)	NA - Original Data	0.00838	Yes	0.006	0.00838	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Fluoride	mg/L	46	43	0.1	0.14	0.102	0.1	2015-11-10	2024-07-01	0.00729	0.0718	Stable	Not normal (Interwell Background)	NA - Original Data	0.14	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Lead	mg/L	44	40	0.01	0.00456	0.00206	0.001	2015-11-10	2024-07-01	0.00231	1.12	No Trend	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Lithium	mg/L	44	42	0.01	0.0116	0.00901	0.01	2015-11-10	2024-07-01	0.00207	0.23	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.0116	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Mercury	mg/L	40	39	0.0002	0.0002	0.0002	0.0002	2015-11-10	2024-07-01	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Molybdenum	mg/L	44	44	0.05	NA	0.00989	0.01	2015-11-10	2024-07-01	0.00651	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Radium-226 & 228	pCi/L	44	12	4	5.97	3.15	4	2015-11-10	2024-07-01	1.51	0.48	Decreasing	Not normal (Interwell Background)	NA - Original Data	5.97	Yes	5	5.97	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Selenium	mg/L	44	44	0.02	NA	0.011	0.01	2015-11-10	2024-07-01	0.00436	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Thallium	mg/L	40	40	0.001	NA	0.000978	0.001	2015-11-10	2024-07-01	0.000142	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells. Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

			Confidence Interval (CI) Dataset						CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics	
Location	Chemical	Units	n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
WAP-2	Arsenic	mg/L	25	0.0712	0.003	0.005	0.0118	0.0159	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.005	0.005	0.01	No	10000	0.005

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

[a] The 95% lower confience level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

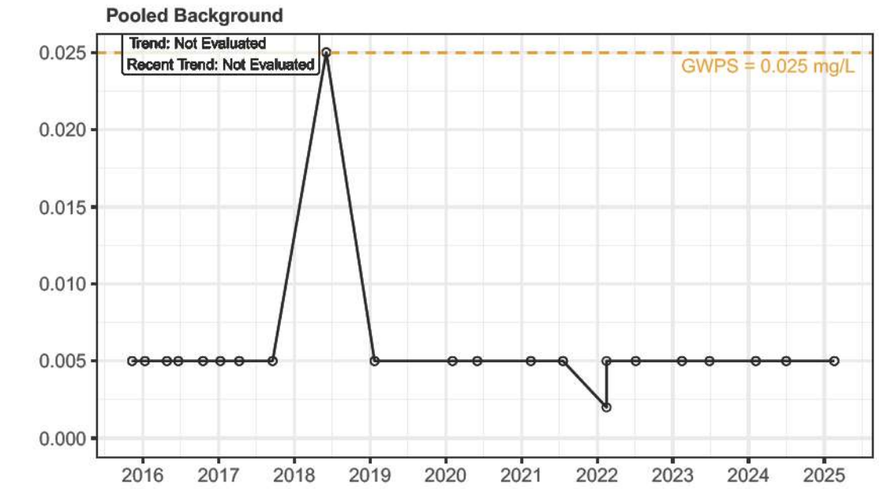
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-1	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-12	Antimony	mg/L	2025-03-07	0.005	0.025	0.025	No	NA	No
WAP-13	Antimony	mg/L	2025-02-24	0.005	0.025	0.025	No	NA	No
WAP-2	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-3	Antimony	mg/L	2025-02-24	0.005	0.025	0.025	No	NA	No
WBW-1	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-1	Arsenic	mg/L	2025-02-18	0.005	0.0096	0.01	No	NA	No
WAP-12	Arsenic	mg/L	2025-03-07	0.005	0.0096	0.01	No	NA	No
WAP-13	Arsenic	mg/L	2025-02-24	0.005	0.0096	0.01	No	NA	No
WAP-2	Arsenic	mg/L	2025-02-18	0.0283	0.0096	0.01	Yes	0.005	No
WAP-3	Arsenic	mg/L	2025-02-24	0.005	0.0096	0.01	No	NA	No
WBW-1	Arsenic	mg/L	2025-02-18	0.005	0.0096	0.01	No	NA	No
WAP-1	Barium	mg/L	2025-02-18	0.0403	0.094	2	No	NA	No
WAP-12	Barium	mg/L	2025-03-07	0.0821	0.094	2	No	NA	No
WAP-13	Barium	mg/L	2025-02-24	0.251	0.094	2	No	NA	No
WAP-2	Barium	mg/L	2025-02-18	0.0922	0.094	2	No	NA	No
WAP-3	Barium	mg/L	2025-02-24	0.172	0.094	2	No	NA	No
WBW-1	Barium	mg/L	2025-02-18	0.0161	0.094	2	No	NA	No
WAP-1	Beryllium	mg/L	2025-02-18	0.0005	0.0005	0.004	No	NA	No
WAP-12	Beryllium	mg/L	2025-03-07	0.0005	0.0005	0.004	No	NA	No
WAP-13	Beryllium	mg/L	2025-02-24	0.0005	0.0005	0.004	No	NA	No
WAP-2	Beryllium	mg/L	2025-02-18	0.00078	0.0005	0.004	No	NA	No
WAP-3	Beryllium	mg/L	2025-02-24	0.0005	0.0005	0.004	No	NA	No
WBW-1	Beryllium	mg/L	2025-02-18	0.0005	0.0005	0.004	No	NA	No
WAP-1	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-12	Cadmium	mg/L	2025-03-07	0.0005	0.0005	0.005	No	NA	No
WAP-13	Cadmium	mg/L	2025-02-24	0.0005	0.0005	0.005	No	NA	No
WAP-2	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-3	Cadmium	mg/L	2025-02-24	0.0005	0.0005	0.005	No	NA	No
WBW-1	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-1	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-12	Chromium	mg/L	2025-03-07	0.005	0.005	0.1	No	NA	No
WAP-13	Chromium	mg/L	2025-02-24	0.005	0.005	0.1	No	NA	No
WAP-2	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-3	Chromium	mg/L	2025-02-24	0.005	0.005	0.1	No	NA	No
WBW-1	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-1	Cobalt	mg/L	2025-02-18	0.00065	0.00838	0.00838	No	NA	No
WAP-12	Cobalt	mg/L	2025-03-07	0.0019	0.00838	0.00838	No	NA	No
WAP-13	Cobalt	mg/L	2025-02-24	0.0005	0.00838	0.00838	No	NA	No
WAP-2	Cobalt	mg/L	2025-02-18	0.0071	0.00838	0.00838	No	NA	No
WAP-3	Cobalt	mg/L	2025-02-24	0.0013	0.00838	0.00838	No	NA	No
WBW-1	Cobalt	mg/L	2025-02-18	0.00061	0.00838	0.00838	No	NA	No
WAP-1	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-12	Fluoride	mg/L	2025-03-07	0.1	0.14	4	No	NA	No
WAP-13	Fluoride	mg/L	2025-02-24	0.1	0.14	4	No	NA	No
WAP-2	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-3	Fluoride	mg/L	2025-02-24	0.102	0.14	4	No	NA	No
WBW-1	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-1	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-12	Lead	mg/L	2025-03-07	0.001	0.01	0.015	No	NA	No
WAP-13	Lead	mg/L	2025-02-24	0.001	0.01	0.015	No	NA	No
WAP-2	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-3	Lead	mg/L	2025-02-24	0.001	0.01	0.015	No	NA	No
WBW-1	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-1	Lithium	mg/L	2025-02-18	0.005	0.0116	0.04	No	NA	No
WAP-12	Lithium	mg/L	2025-03-07	0.005	0.0116	0.04	No	NA	No
WAP-13	Lithium	mg/L	2025-02-24	0.0144	0.0116	0.04	No	NA	No
WAP-2	Lithium	mg/L	2025-02-18	0.0089	0.0116	0.04	No	NA	No
WAP-3	Lithium	mg/L	2025-02-24	0.0175	0.0116	0.04	No	NA	No
WBW-1	Lithium	mg/L	2025-02-18	0.005	0.0116	0.04	No	NA	No
WAP-1	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-12	Mercury	mg/L	2025-03-07	0.0002	0.0002	0.002	No	NA	No

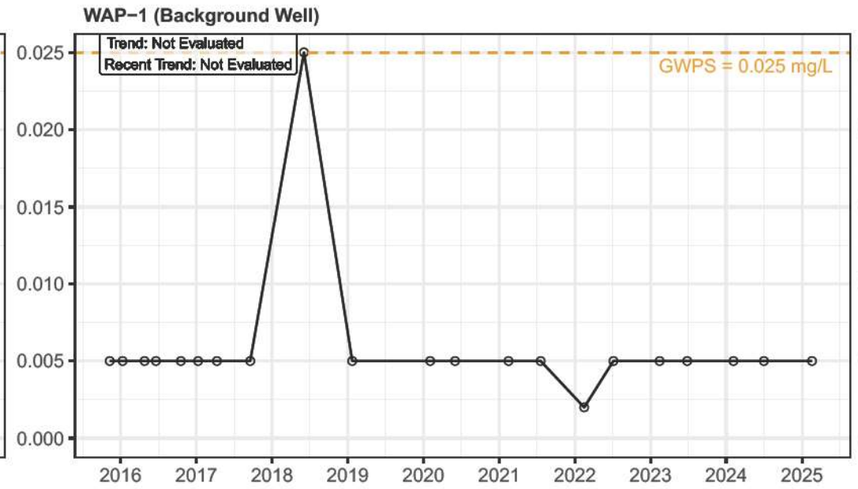
Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

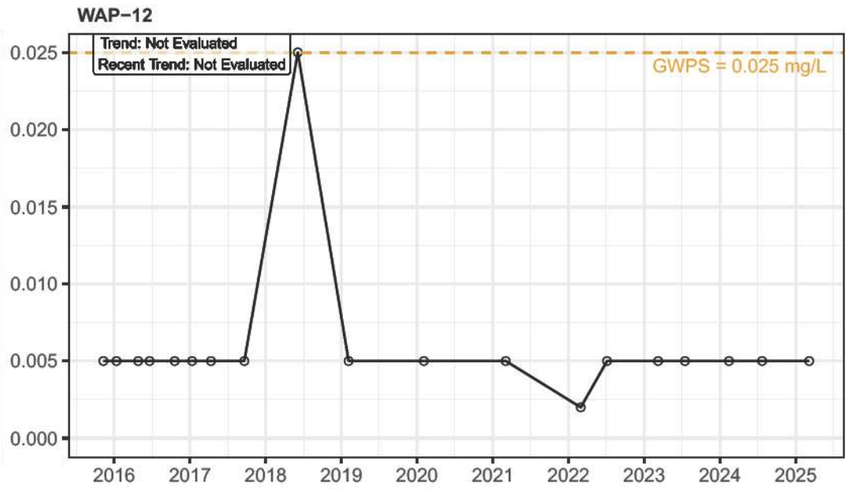
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-13	Mercury	mg/L	2025-02-24	0.0002	0.0002	0.002	No	NA	No
WAP-2	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-3	Mercury	mg/L	2025-02-24	0.0002	0.0002	0.002	No	NA	No
WBW-1	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-1	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-12	Molybdenum	mg/L	2025-03-07	0.005	0.05	0.1	No	NA	No
WAP-13	Molybdenum	mg/L	2025-02-24	0.005	0.05	0.1	No	NA	No
WAP-2	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-3	Molybdenum	mg/L	2025-02-24	0.005	0.05	0.1	No	NA	No
WBW-1	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-1	Radium-226 & 228	pCi/L	2025-02-18	1.88	5.97	5.97	No	NA	No
WAP-12	Radium-226 & 228	pCi/L	2025-03-07	5.79	5.97	5.97	No	NA	No
WAP-13	Radium-226 & 228	pCi/L	2025-02-24	3.4	5.97	5.97	No	NA	No
WAP-2	Radium-226 & 228	pCi/L	2025-02-18	1.61	5.97	5.97	No	NA	No
WAP-3	Radium-226 & 228	pCi/L	2025-02-24	1.59	5.97	5.97	No	NA	No
WBW-1	Radium-226 & 228	pCi/L	2025-02-18	1.45	5.97	5.97	No	NA	No
WAP-1	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-12	Selenium	mg/L	2025-03-07	0.01	0.02	0.05	No	NA	No
WAP-13	Selenium	mg/L	2025-02-24	0.01	0.02	0.05	No	NA	No
WAP-2	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-3	Selenium	mg/L	2025-02-24	0.01	0.02	0.05	No	NA	No
WBW-1	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-1	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No
WAP-12	Thallium	mg/L	2025-03-07	0.001	0.001	0.002	No	NA	No
WAP-13	Thallium	mg/L	2025-02-24	0.001	0.001	0.002	No	NA	No
WAP-2	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No
WAP-3	Thallium	mg/L	2025-02-24	0.001	0.001	0.002	No	NA	No
WBW-1	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No

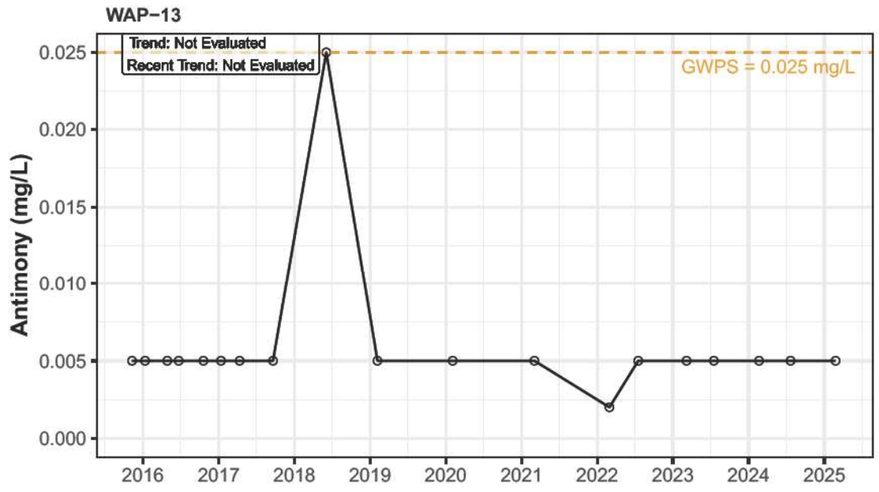
Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

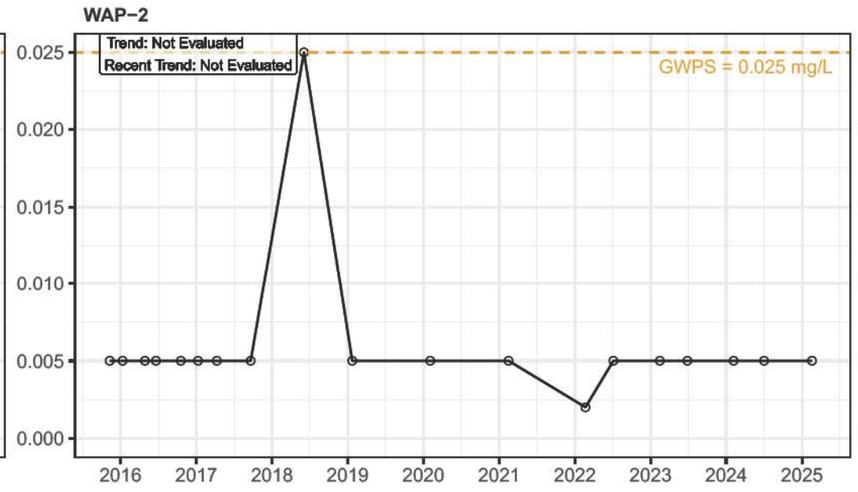
Trend Analysis for Antimony

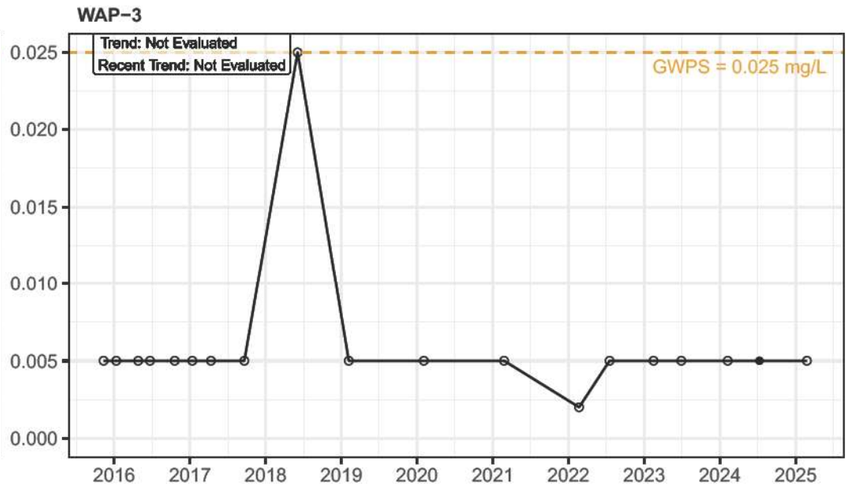


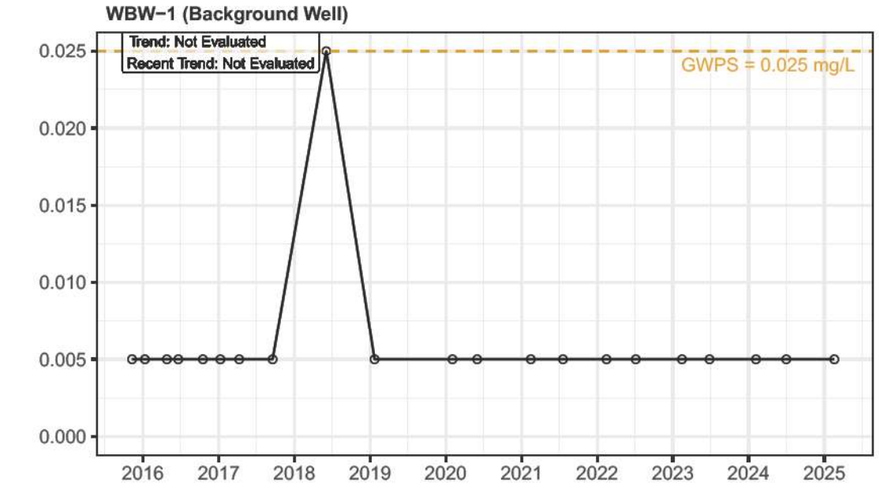












Antimony (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

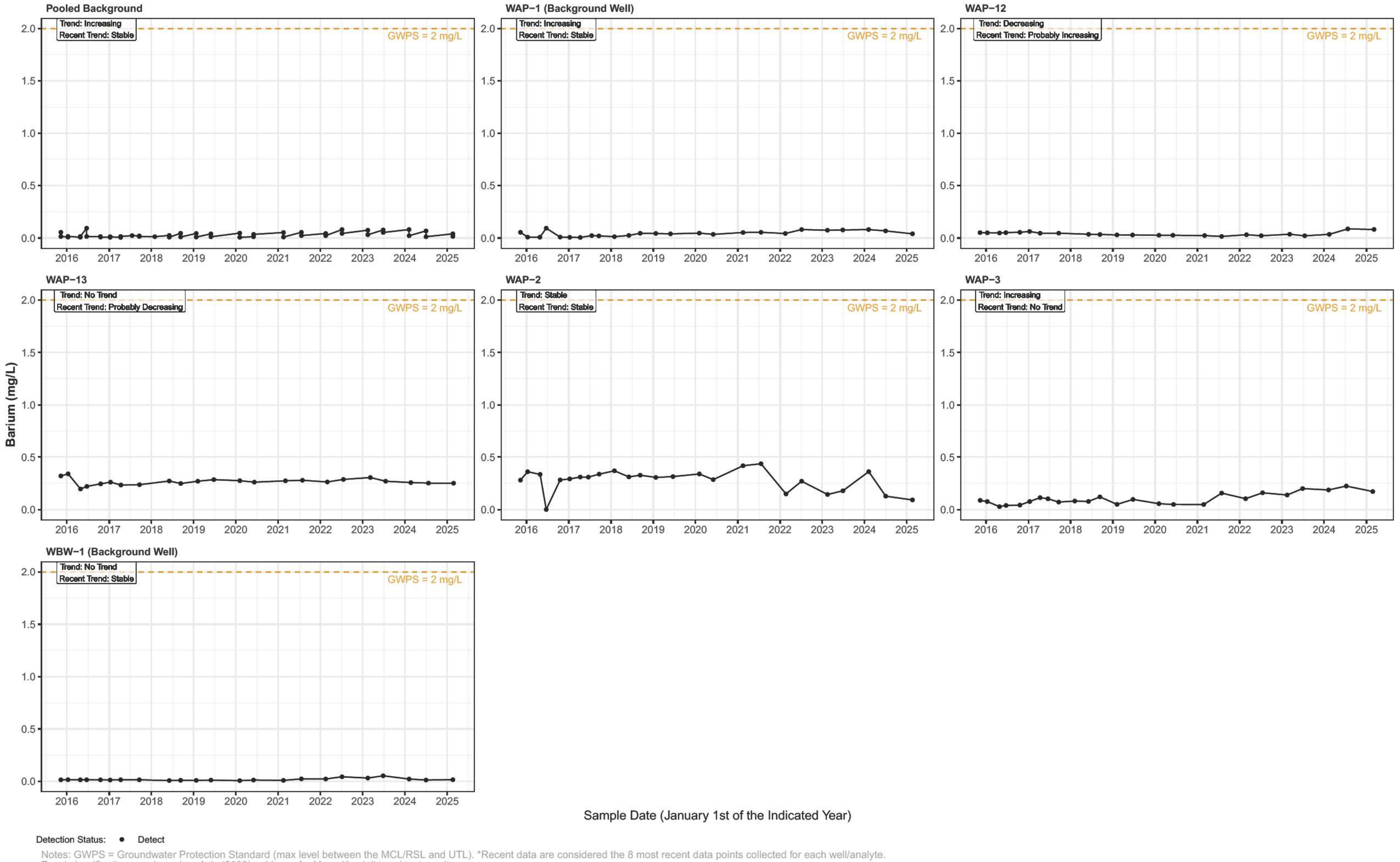
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis Plots for Arsenic



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Barium



Detection Status: ● Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

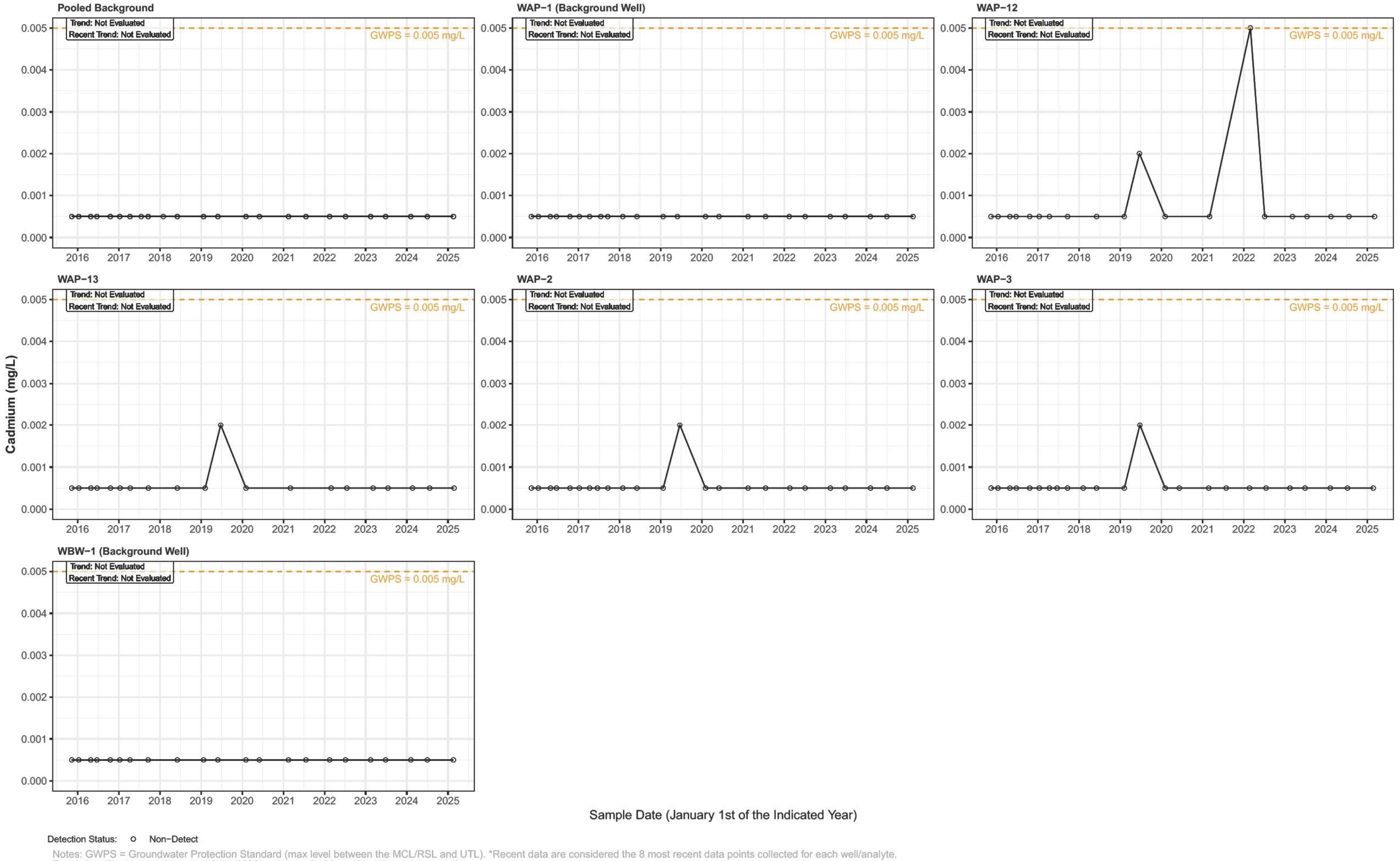
Trend Analysis for Beryllium



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

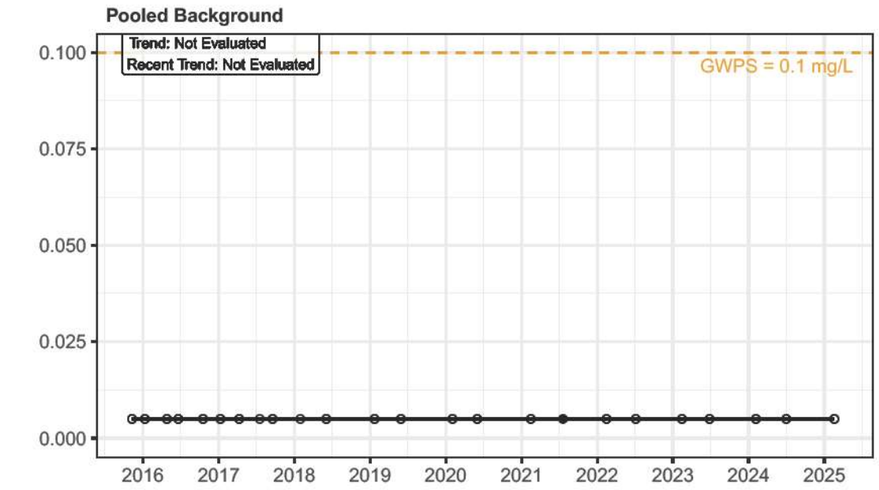
Trend Analysis for Cadmium

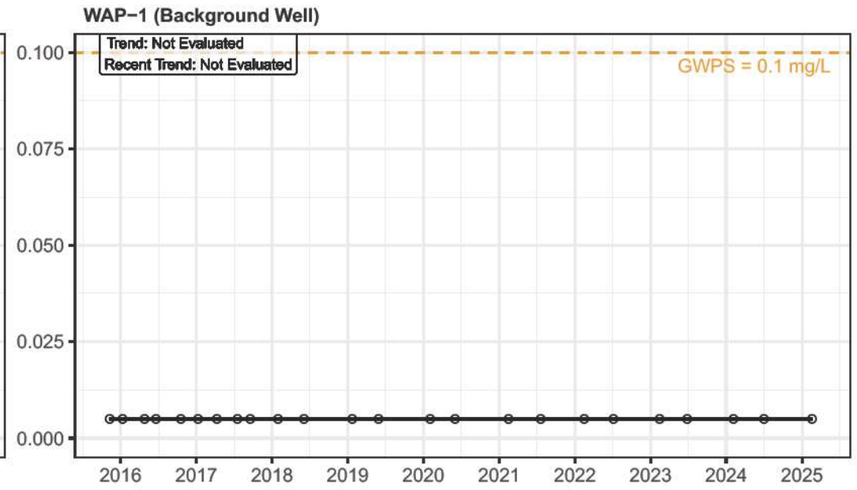


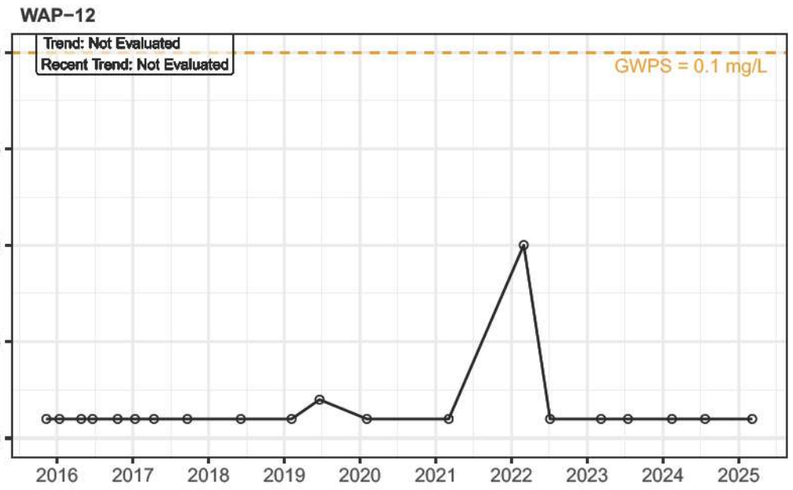
Detection Status: ○ Non−Detect

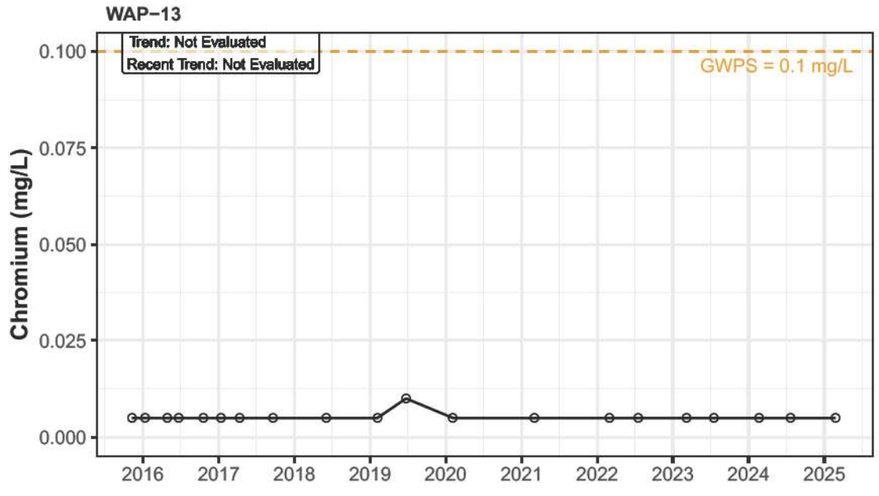
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

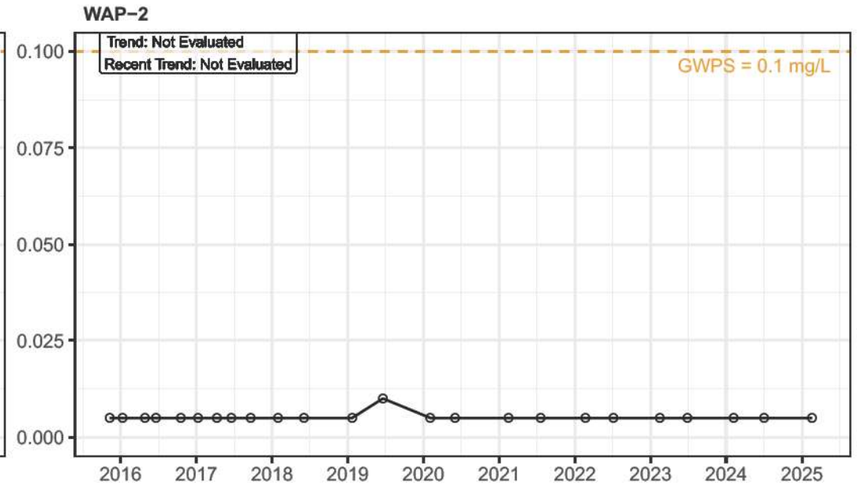
Trend Analysis for Chromium

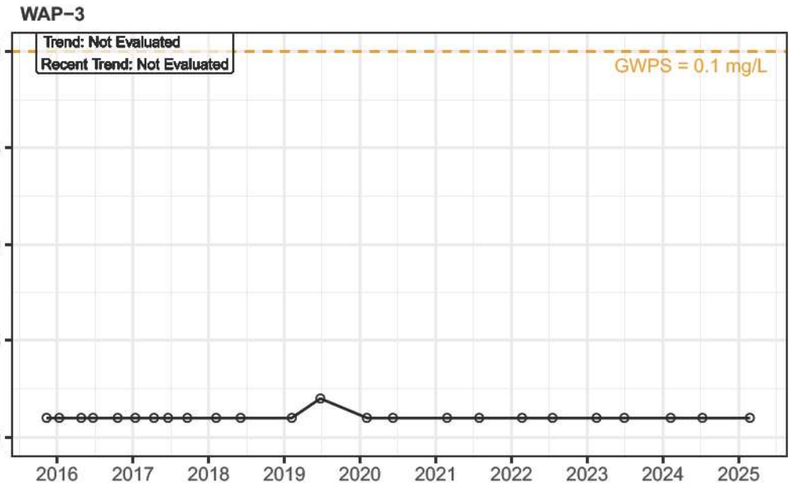


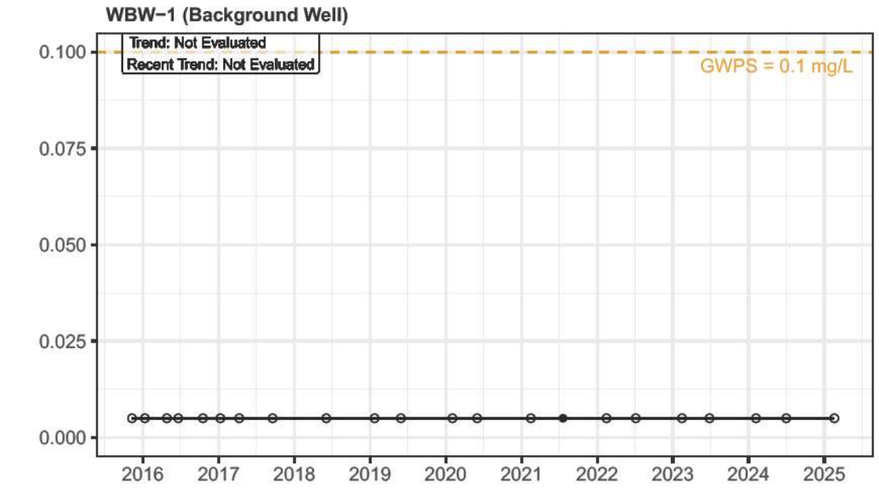












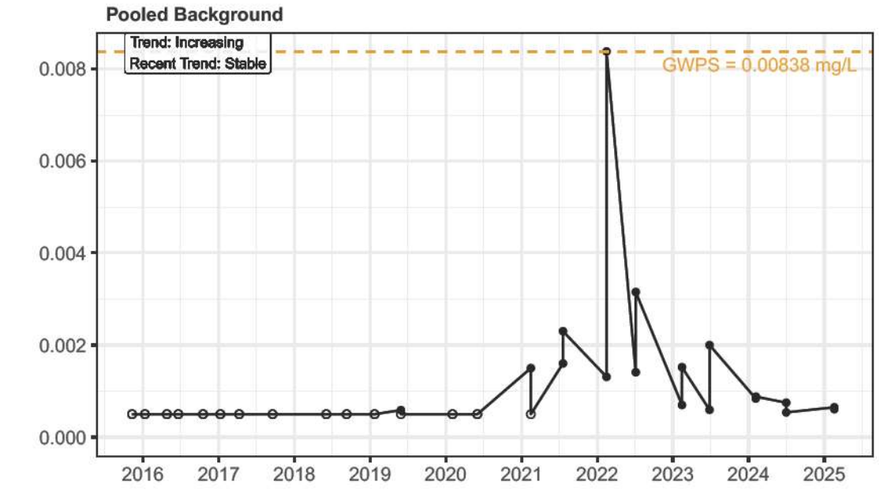
Chromium (mg/L)

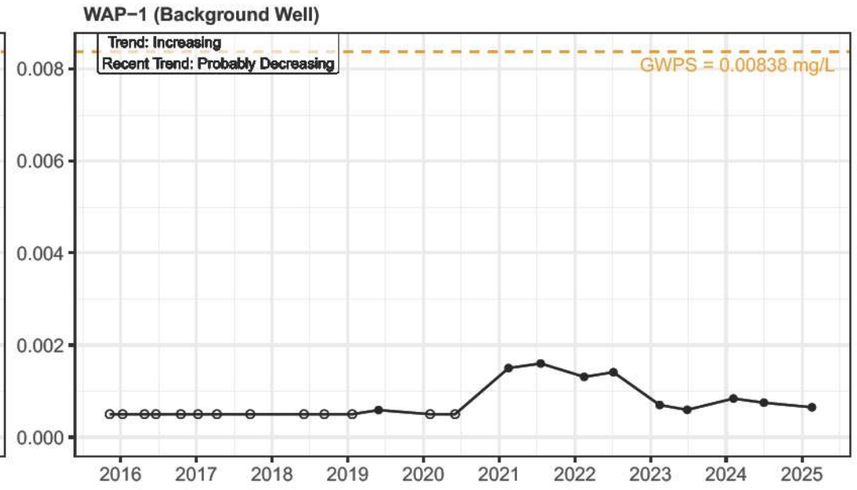
Sample Date (January 1st of the Indicated Year)

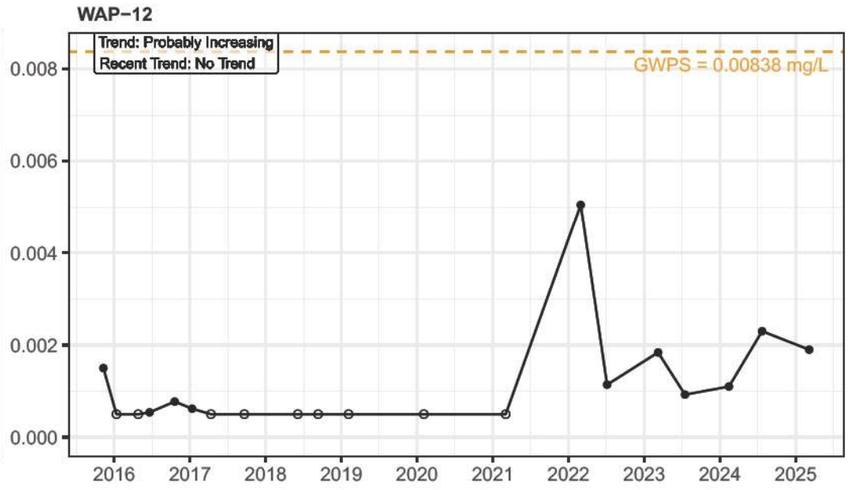
Detection Status: ● Detect ○ Non−Detect

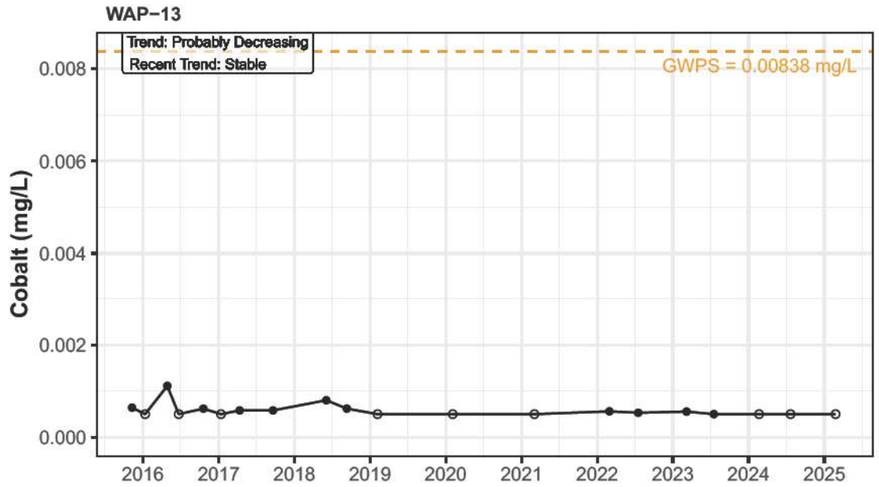
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

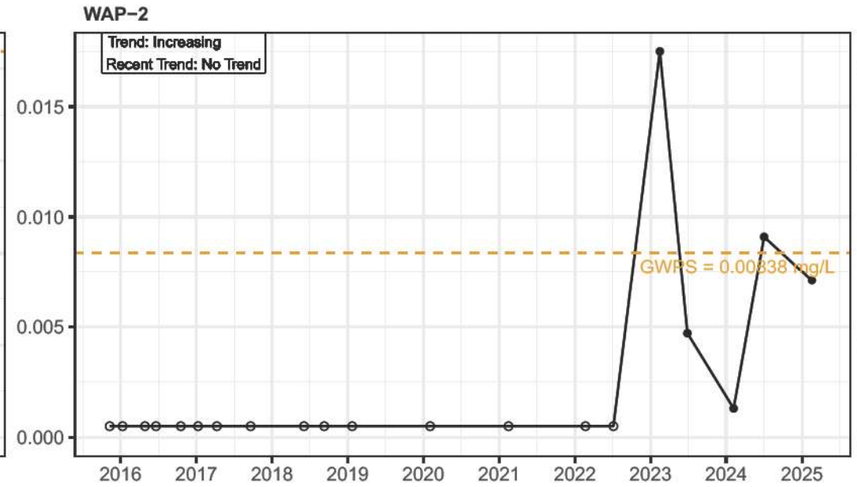
Trend Analysis for Cobalt

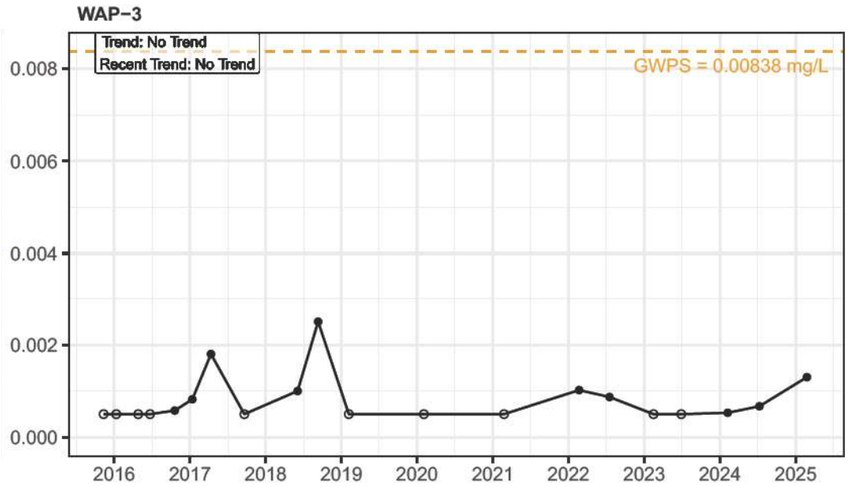


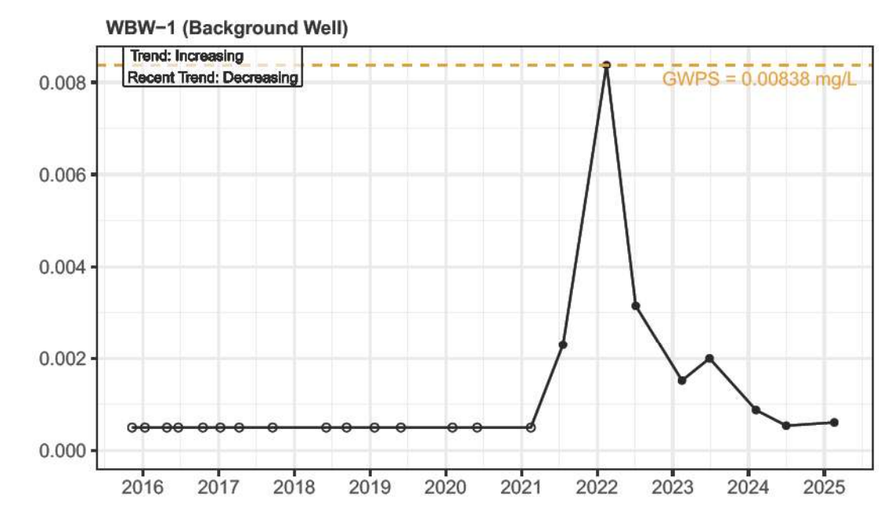












Cobalt (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Fluoride

Pooled Background
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 4 mg/L

WAP−1 (Background Well)
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 4 mg/L

WAP−12
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 4 mg/L

WAP−13
Trend: No Trend
Recent Trend: No Trend
GWPS = 4 mg/L

WAP−2
Trend: Not Evaluated
Recent Trend: Stable
GWPS = 4 mg/L

WAP−3
Trend: Stable
Recent Trend: Stable
GWPS = 4 mg/L

WBW−1 (Background Well)
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 4 mg/L

Fluoride (mg/L)

0 1 2 3 4

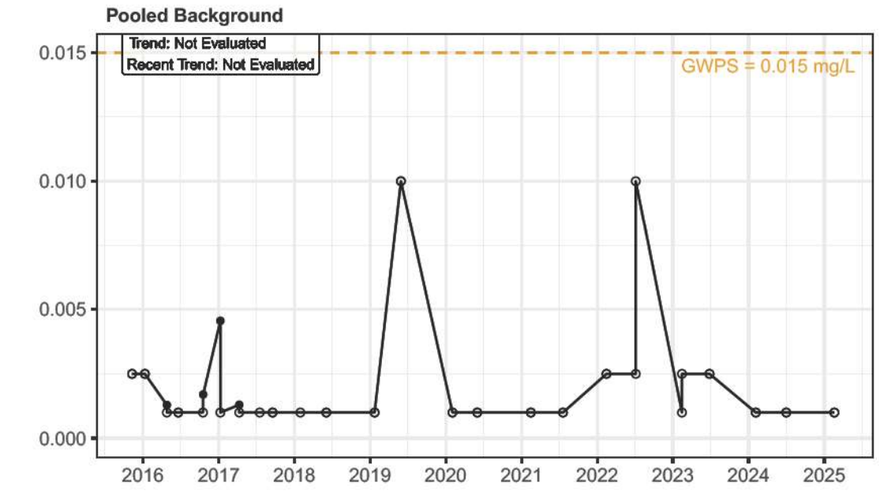
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

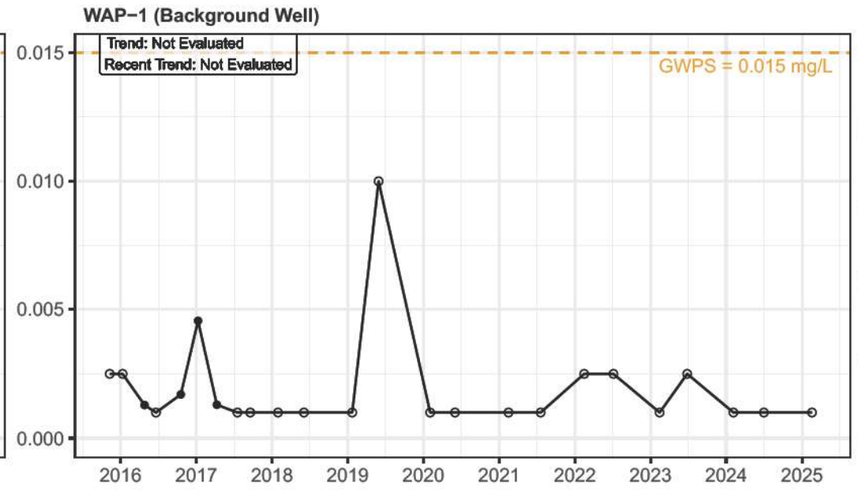
Sample Date (January 1st of the Indicated Year)

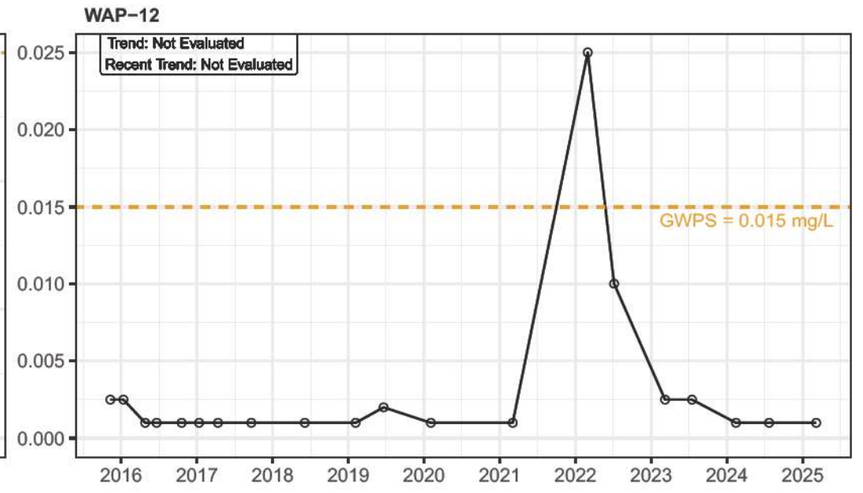
Detection Status: ● Detect ○ Non−Detect

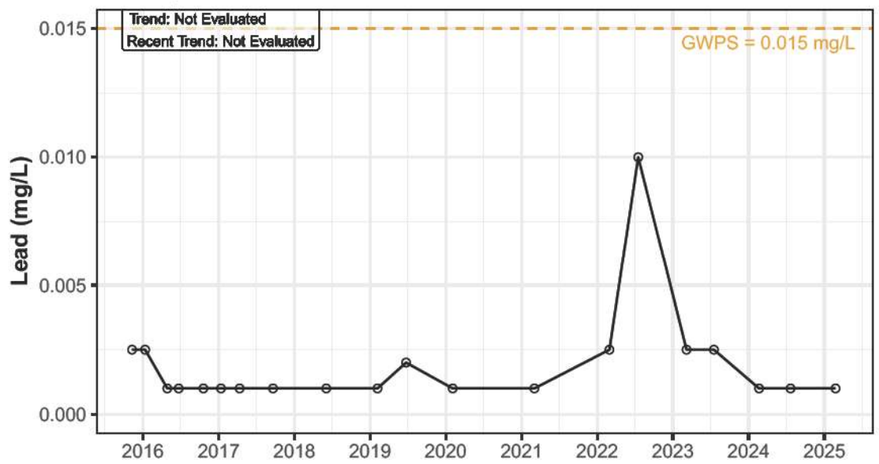
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

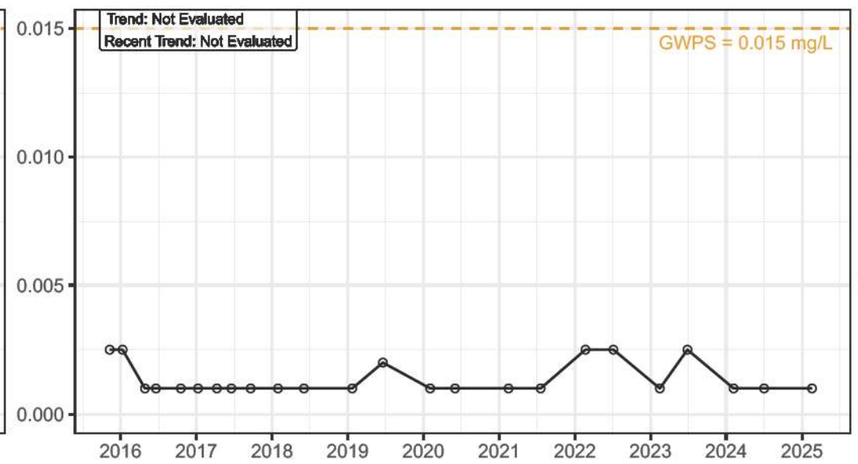
Trend Analysis for Lead

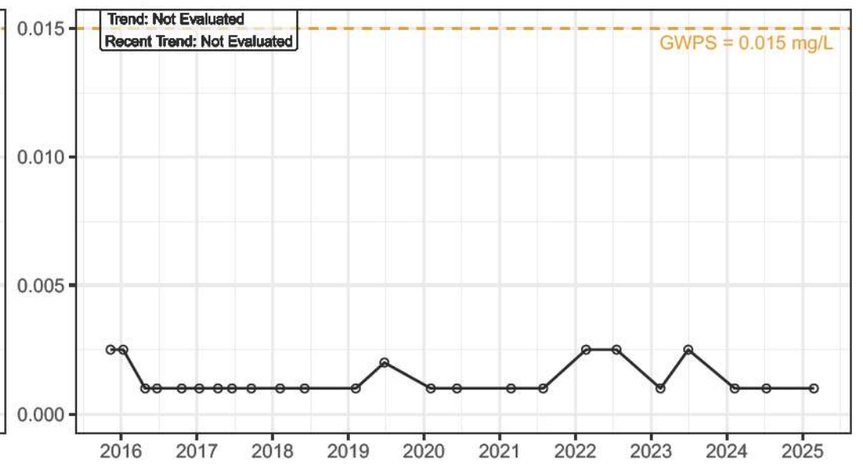


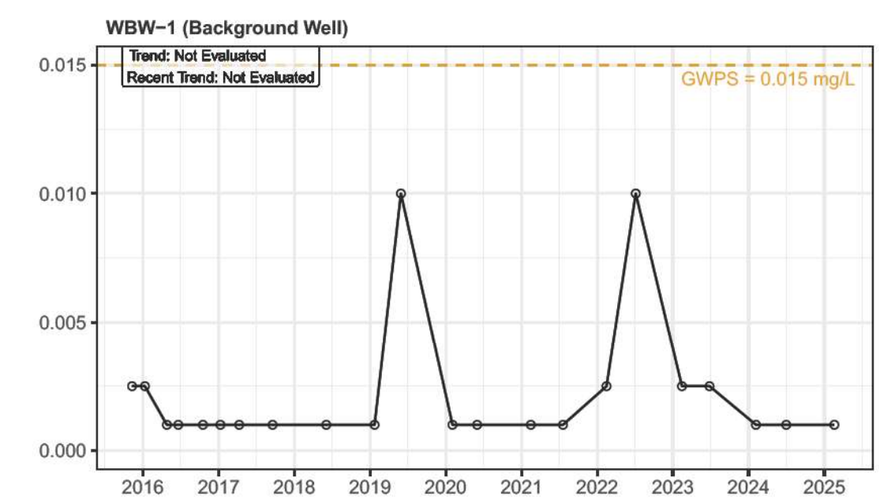










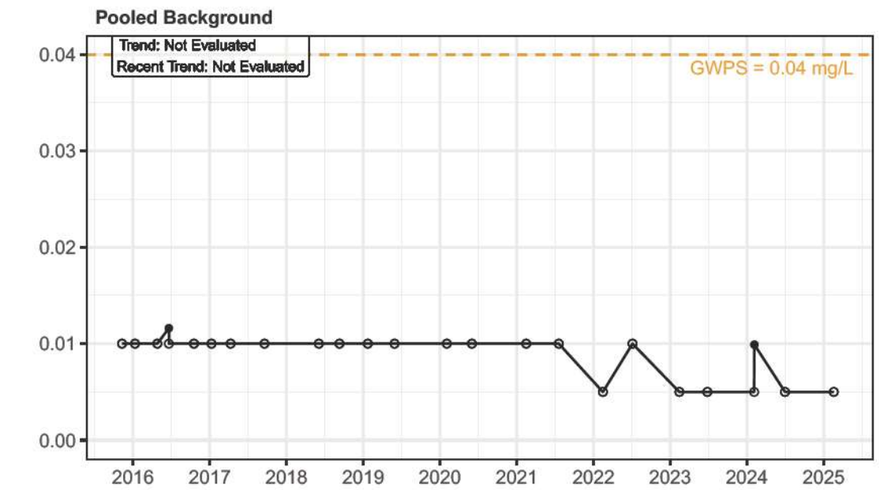


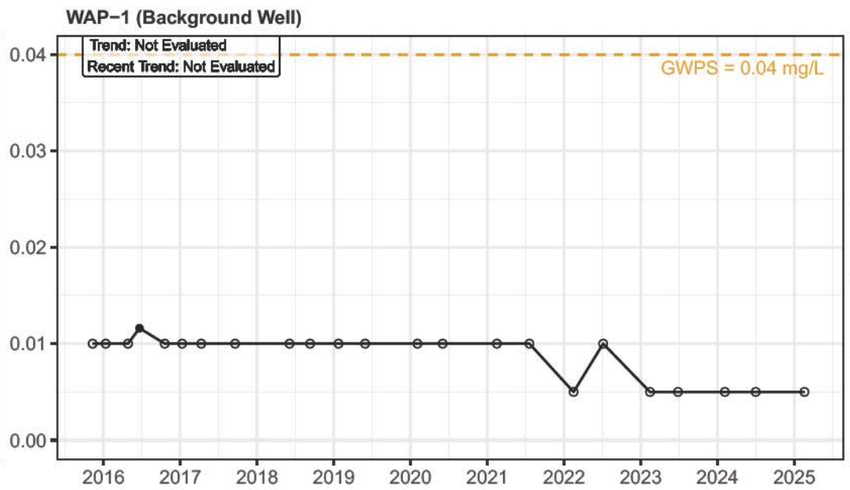
Sample Date (January 1st of the Indicated Year)

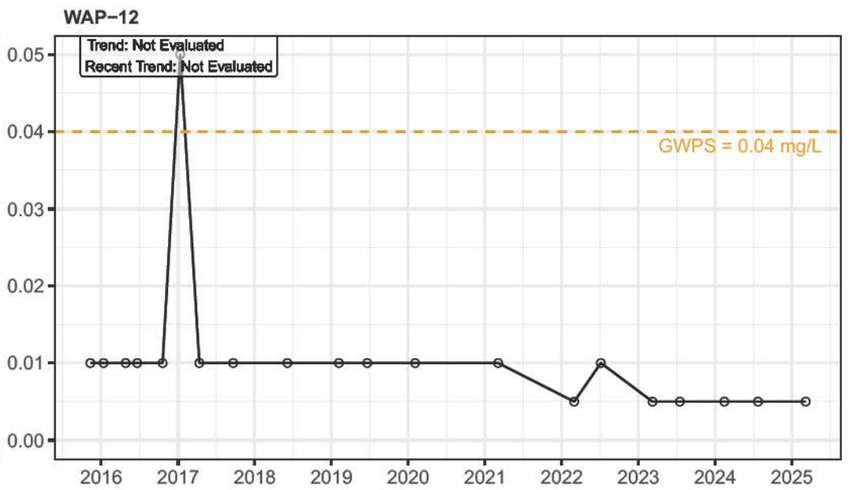
Detection Status: ● Detect ○ Non−Detect

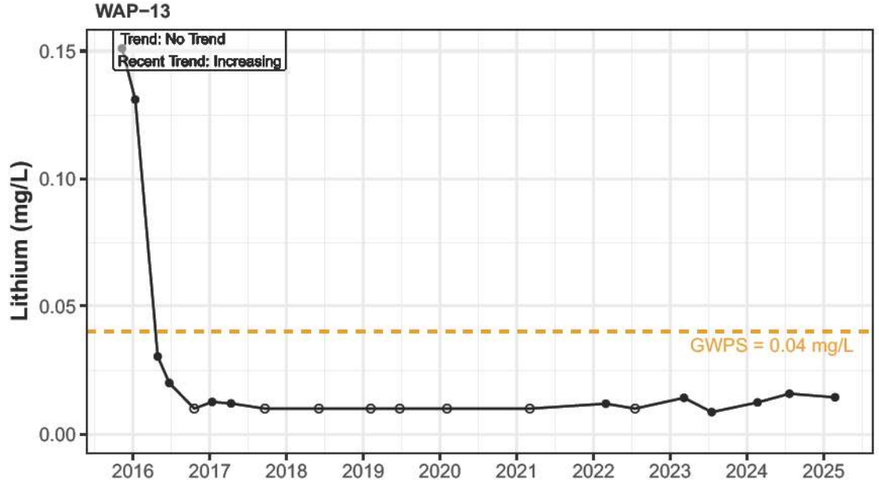
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

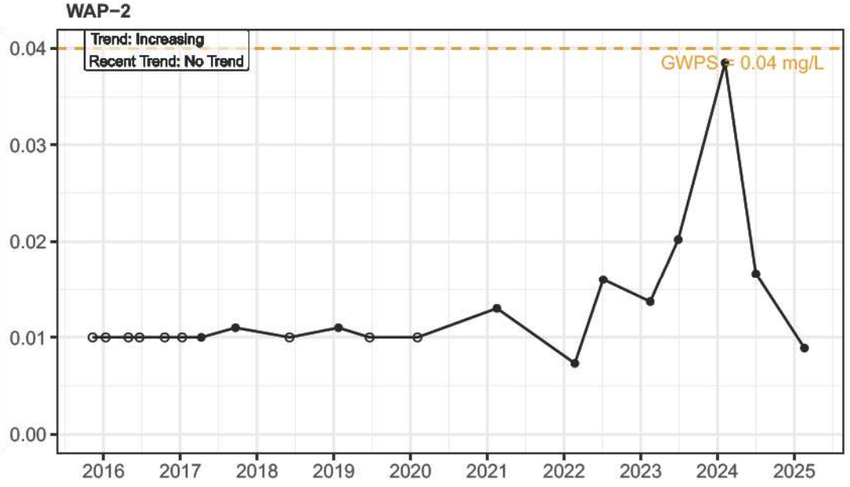
Trend Analysis for Lithium

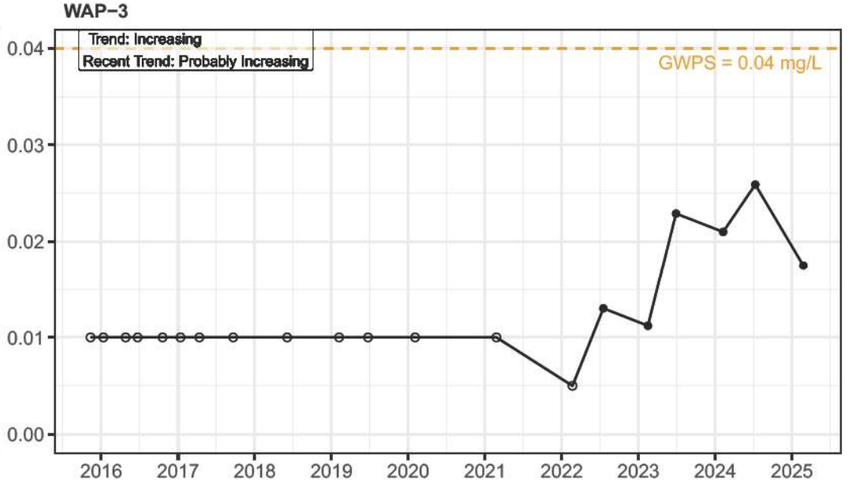


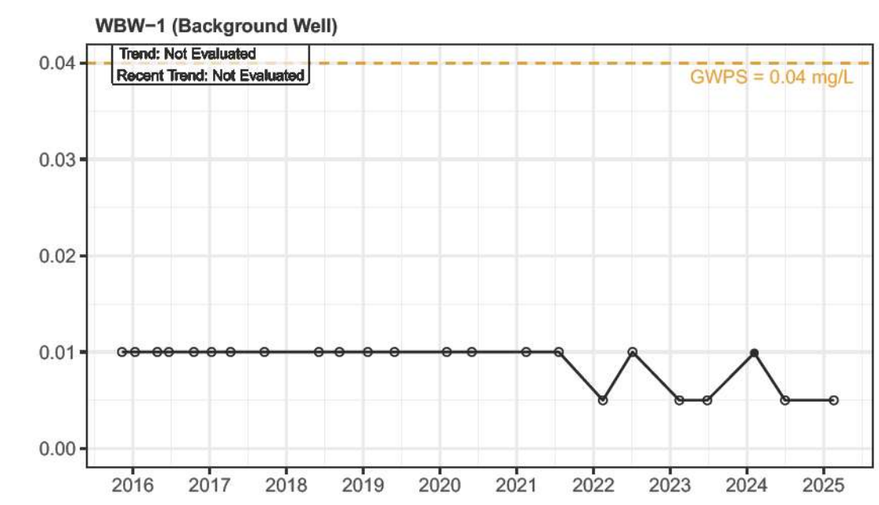












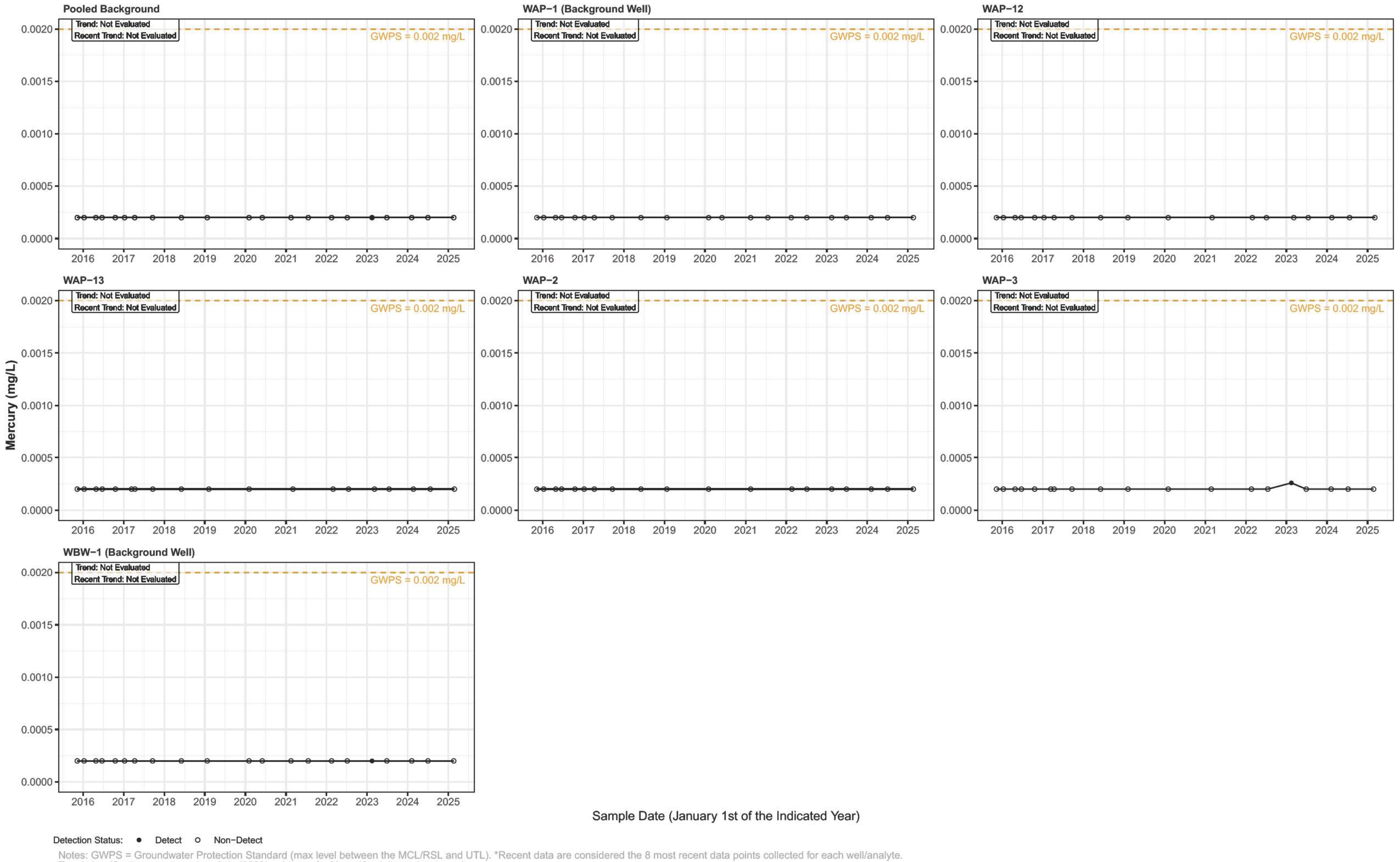
Lithium (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

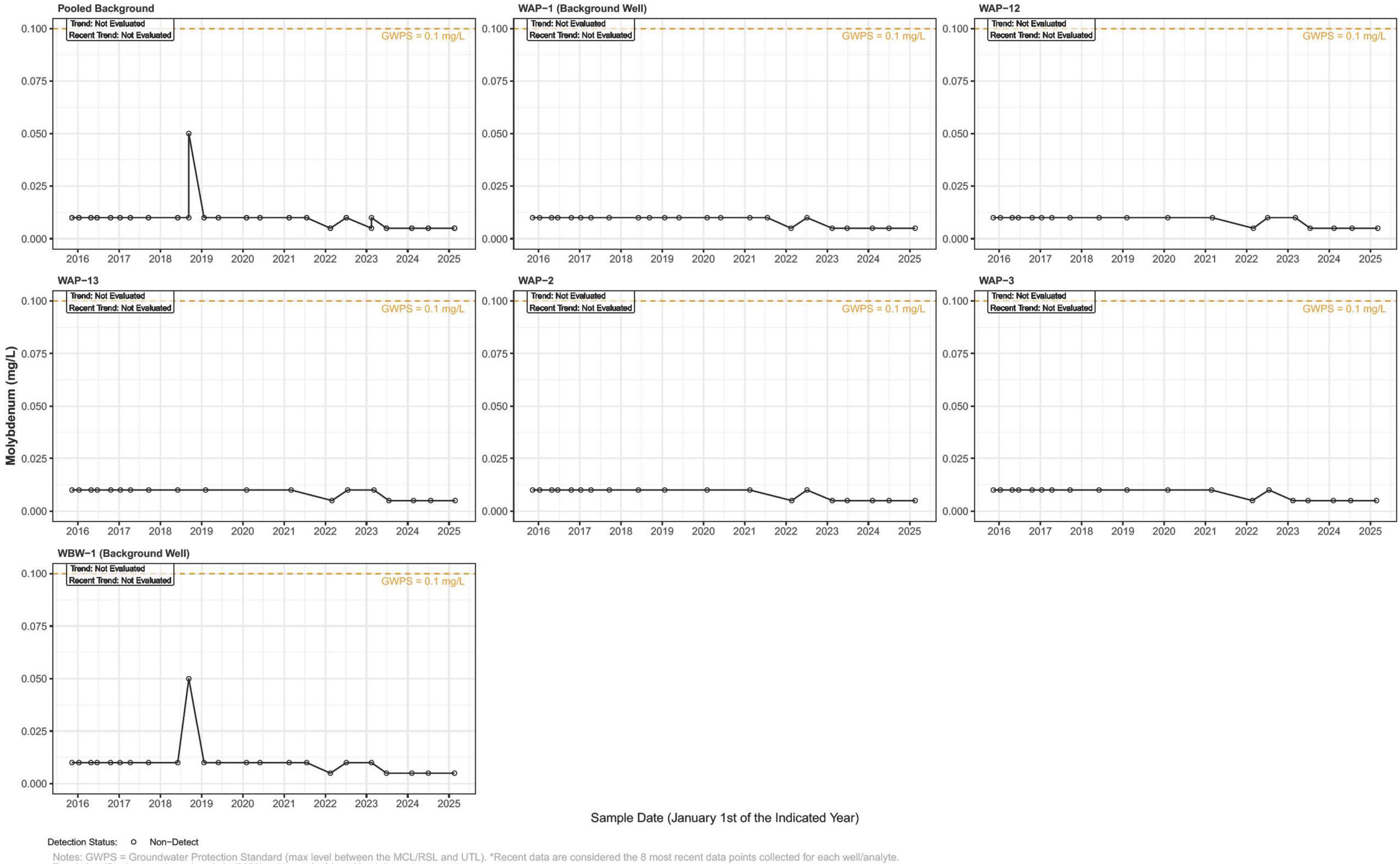
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Molybdenum



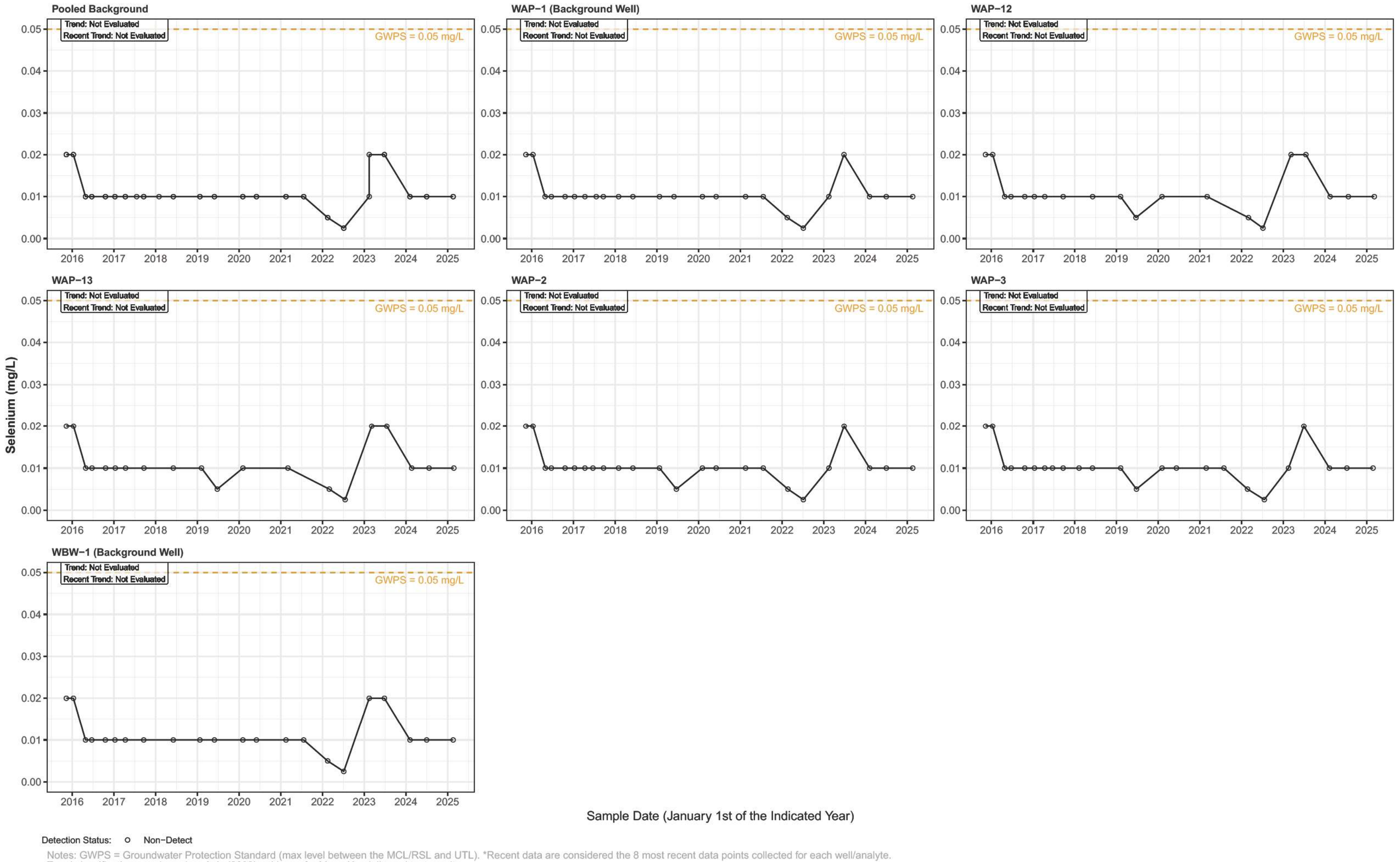
Detection Status: ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Radium−226 & 228

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

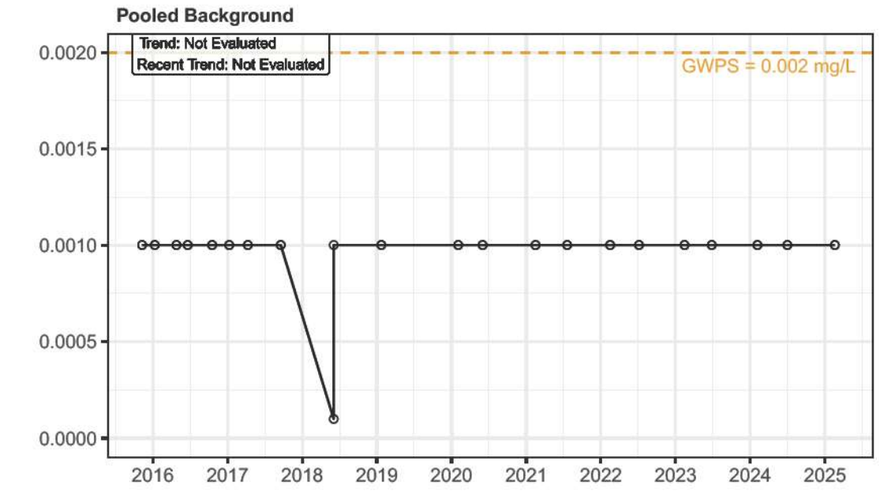
Trend Analysis for Selenium

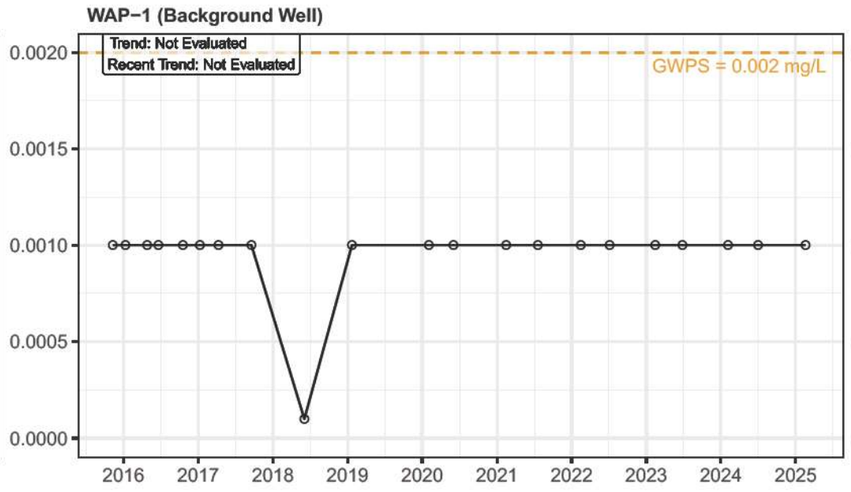


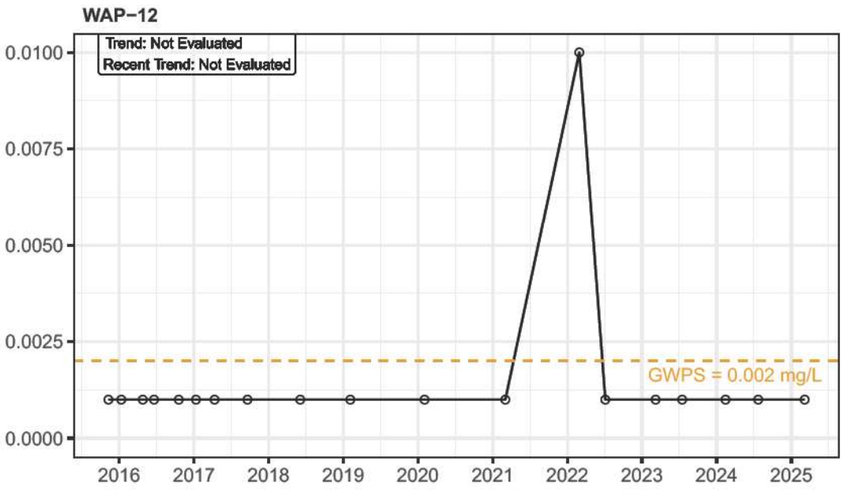
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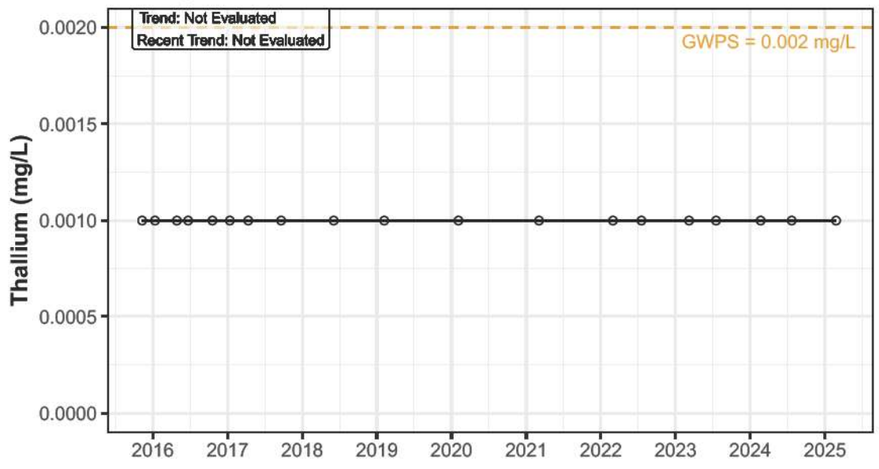
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

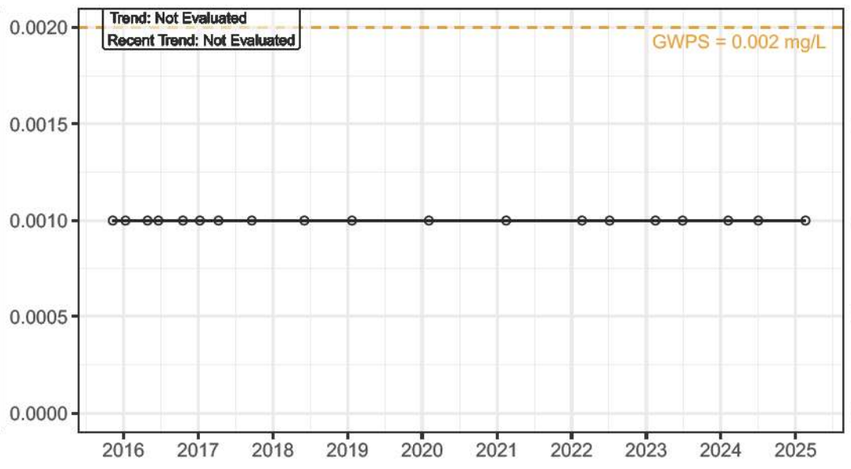
Trend Analysis for Thallium

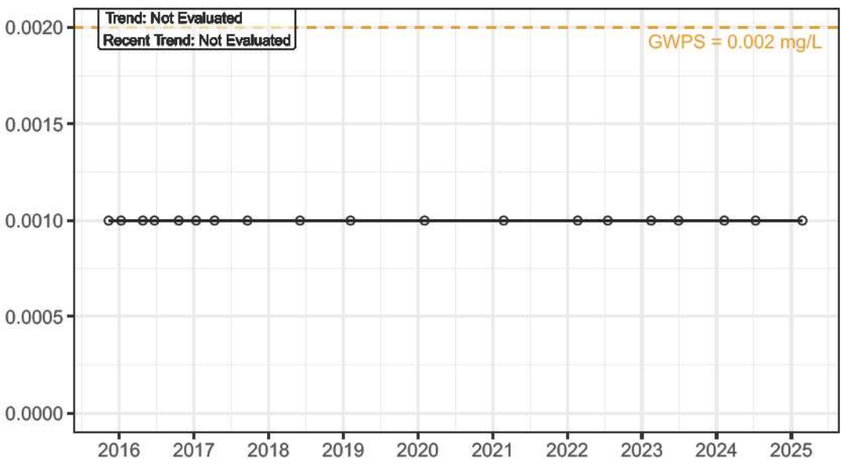


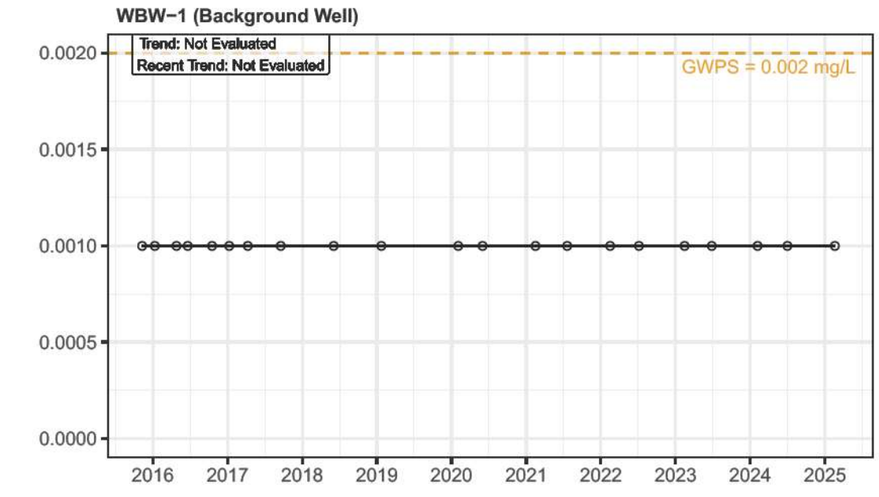












Thallium (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

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864.214.8750

TECHNICAL MEMORANDUM

December 23, 2025
File No. 0132892-102

SUBJECT: Statistical Evaluation of the June and July 2025 Semiannual Groundwater Assessment Monitoring Data, Winyah Generating Station, South Ash Pond

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93 and § 257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the June and July 2025 semiannual assessment monitoring event for the Winyah Generating Station (WGS) South Ash Pond. Data for this groundwater sampling event were validated on September 26, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

The WGS South Ash Pond ceased receipt of coal combustion residual (CCR) material and non-CCR wastewater inflows prior to April 11, 2021. The unit continues in assessment monitoring and closure by excavation and removal is underway.

Recent analytical testing results were evaluated to determine if statistically significant levels (SSLs) exist above Groundwater Protection Standards (GWPS) of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR § 257.93(f)(1-4)) 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 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, or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of

a tolerance interval is called the upper tolerance limit (UTL). Depending on the assumed distribution of background data, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to develop the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all 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 an SSL. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence.

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

The background wells (WAP-1 and WBW-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2025 and updated in the Statistical Output produced with R programming software (Attachment A). The background dataset will be updated in Table 1 after four additional data points are collected (second semiannual event of 2026) in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on both the overall dataset and on the eight most recent samples. Trends were only evaluated for constituent/well datasets of sufficient sample size. Recent trend analysis results are included in Table 1 and both overall and recent trends are included in Attachment A, Table A-4. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

Of the 28 well/constituent datasets that were evaluated for recent trends, 57 percent were stable or decreasing, 4 percent were increasing, and 39 percent were variable with no statistically significant trend. An increasing trend was identified for antimony in WAP-3, but the event sample concentration (0.0051 milligrams per liter [mg/L]) was well below the GWPS (0.025 mg/L). It is important to note that increasing trends are not a part of the SSL identification process. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. No SSLs were identified. The expected date for completing closure for the South Ash Pond is by the end of 2025. Groundwater trends will continue to be monitored during future sampling events.

Enclosures:

Table 1 – June and July 2025 Semiannual Corrective Action Monitoring Data (WGS South Ash Pond)

Attachment A – Statistical Output, June and July 2025

https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0_Winyah Generating Station/Statistical Analysis/2025-10/South Ash Pond/2025-1223_HAI_WGS_South Ash Pond_Assess Monitoring Stats_F.docx

TABLE

TABLE 1
JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis							
													Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Antimony, Total (mg/L)																				
WAP-1	1/22	96%	0.002 - 0.025	0.0058	0.0050	0.0053	0.0053	75%	0	1	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0053	Yes		NA			NA	NA
WBW-1	0/22	100%	0.005 - 0.025	0.0059	0.0050	0.0050	NA	72%	0	1	Not Evaluated		6/25/2025	0.005	No		NA			NA	NA
WAP-12	0/20	100%	0.002 - 0.025	0.0059	0.0050	0.0060	NA	78%	0	1	Not Evaluated	NA	7/10/2025	0.005	No		No			NA	No
WAP-13	0/20	100%	0.002 - 0.025	0.0059	0.0050	0.0060	NA	78%	0	1	Not Evaluated	NA	7/14/2025	0.005	No	0.025	No	0.006	0.025	NA	No
WAP-2	1/20	95%	0.002 - 0.025	0.0059	0.0050	0.0072	0.0063	77%	1	1	Not Evaluated	NA	6/25/2025	0.0063	Yes		No			NA	No
WAP-28	0/12	100%	0.005 - 0.005	0.0050	0.0050	0.0050	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.005	No		No			NA	No
WAP-3	2/20	90%	0.002 - 0.025	0.0059	0.0050	0.0061	0.0051	78%	0	1	Increasing	NA	6/26/2025	0.0051	Yes		No			NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																				
WAP-1	7/26	73%	0.003 - 0.005	0.00542	0.005	0.00845	0.0096	27%	0	0	No Trend	Non-Parametric (Pooled Background Data)	6/25/2025	0.0057	Yes		NA			NA	NA
WBW-1	0/24	100%	0.003 - 0.005	0.00450	0.005	0.00500	NA	20%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA	NA
WAP-12	5/21	76%	0.003 - 0.03	0.00609	0.005	0.00820	0.0082	92%	0	1	Not Evaluated	NA	7/10/2025	0.005	No		No			NA	No
WAP-13	3/21	86%	0.003 - 0.005	0.00482	0.005	0.00600	0.0103	32%	1	0	Not Evaluated	NA	7/14/2025	0.005	No	0.0096	No	0.01	0.01	NA	No
WAP-2	8/26	69%	0.003 - 0.005	0.01270	0.005	0.04300	0.0712	128%	7	0	No Trend	Non-Parametric	6/25/2025	0.0348	Yes		Yes			0.005	No
WAP-28	0/12	100%	0.003 - 0.005	0.00417	0.005	0.00500	NA	25%	0	0	Not Evaluated	NA	7/14/2025	0.005	No		No			NA	No
WAP-3	0/25	100%	0.003 - 0.005	0.00460	0.005	0.00500	NA	18%	0	0	Not Evaluated	NA	6/26/2025	0.005	No		No			NA	No
CCR Appendix IV: Barium, Total (mg/L)																				
WAP-1	26/26	0%	NA	0.0420	0.0418	0.0810	0.094	62%	0	0	Stable	Non-Parametric (Pooled Background Data)	6/25/2025	0.0365	Yes		NA			NA	NA
WBW-1	24/24	0%	NA	0.02	0.02	0.04	0.0534	60%	0	0	Stable		6/25/2025	0.0222	Yes		NA			NA	NA
WAP-12	24/24	0%	NA	0.0420	0.0362	0.0792	0.0871	44%	0	0	No Trend	NA	7/10/2025	0.0564	Yes		No			NA	No
WAP-13	24/24	0%	NA	0.2640	0.2620	0.3180	0.34	12%	0	0	Decreasing	NA	7/14/2025	0.237	Yes	0.094	Yes	2	2	NA	No
WAP-2	26/26	0%	NA	0.2700	0.3070	0.4050	0.436	40%	0	0	Stable	NA	6/25/2025	0.0875	Yes		No			NA	No
WAP-28	12/12	0%	NA	0.1880	0.1820	0.2650	0.273	31%	0	0	Decreasing	NA	7/14/2025	0.0867	Yes		No			NA	No
WAP-3	26/26	0%	NA	0.1050	0.0925	0.1970	0.224	52%	0	0	No Trend	NA	6/26/2025	0.157	Yes		Yes			NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																				
WAP-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No		NA			NA	NA
WBW-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/25/2025	0.0005	No		NA			NA	NA
WAP-12	1/20	95%	0.0005 - 0.005	0.0007	0.0005	0.0009	0.00065	137%	0	1	Not Evaluated	NA	7/10/2025	0.0005	No		No			NA	No
WAP-13	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.0005	No	0.0005	No	0.004	0.004	NA	No
WAP-2	5/20	75%	0.0005 - 0.0005	0.0006	0.0005	0.0012	0.0017	49%	0	0	No Trend	NA	6/25/2025	0.00078	Yes		Yes			NA	No
WAP-28	8/12	33%	0.0005 - 0.0005	0.0008	0.0005	0.0016	0.002	59%	0	0	Decreasing	NA	7/14/2025	0.0005	No		No			NA	No
WAP-3	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	NA	6/26/2025	0.0005	No		No			NA	No
CCR Appendix IV: Cadmium, Total (mg/L)																				
WAP-1	0/25	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No		NA			NA	NA
WBW-1	0/23	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/25/2025	0.0005	No		NA			NA	NA
WAP-12	0/21	100%	0.0005 - 0.005	0.0008	0.0005	0.0020	NA	130%	0	0	Not Evaluated	NA	7/10/2025	0.0005	No		No			NA	No
WAP-13	0/21	100%	0.0005 - 0.002	0.0006	0.0005	0.0005	NA	57%	0	0	Not Evaluated	NA	7/14/2025	0.0005	No	0.0005	No	0.005	0.005	NA	No
WAP-2	0/25	100%	0.0005 - 0.002	0.0006	0.0005	0.0005	NA	54%	0	0	Not Evaluated	NA	6/25/2025	0.0005	No		No			NA	No
WAP-28	0/12	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.0005	No		No			NA	No
WAP-3	0/25	100%	0.0005 - 0.002	0.0006	0.0005	0.0005	NA	54%	0	0	Not Evaluated	NA	6/26/2025	0.0005	No		No			NA	No

TABLE 1
JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis							
													Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Chromium, Total (mg/L)																				
WAP-1	0/25	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.005	NA	0.1	0.1	NA	NA
WBW-1	1/23	96%	0.005 - 0.005	0.005	0.005	0.005	0.005	0%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA	NA
WAP-12	0/21	100%	0.005 - 0.05	0.007	0.005	0.010	NA	133%	0	0	Not Evaluated	NA	7/10/2025	0.005	No		No			NA	No
WAP-13	0/21	100%	0.005 - 0.01	0.005	0.005	0.005	NA	21%	0	0	Not Evaluated	NA	7/14/2025	0.005	No		No			NA	No
WAP-2	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated	NA	6/25/2025	0.005	No		No			NA	No
WAP-28	0/12	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.005	No		No			NA	No
WAP-3	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated	NA	6/26/2025	0.005	No		No			NA	No
CCR Appendix IV: Cobalt, Total (mg/L)																				
WAP-1	11/24	54%	0.0005 - 0.0005	0.0007	0.0005	0.0015	0.0016	49%	0	0	Stable	Non-Parametric (Pooled Background Data)	6/25/2025	0.00094	Yes	0.00838	NA	0.006	0.00838	NA	NA
WBW-1	8/24	67%	0.0005 - 0.0005	0.0011	0.0005	0.0030	0.00838	148%	1	0	Decreasing		6/25/2025	0.0005	No		NA			NA	NA
WAP-12	12/21	43%	0.0005 - 0.0005	0.0011	0.0006	0.0023	0.00505	96%	0	0	Stable	NA	7/10/2025	0.001	Yes		No			NA	No
WAP-13	11/21	48%	0.0005 - 0.0005	0.0006	0.0005	0.0008	0.00111	25%	0	0	Decreasing	NA	7/14/2025	0.0005	No		No			NA	No
WAP-2	6/21	71%	0.0005 - 0.0005	0.0025	0.0005	0.0091	0.0175	171%	3	0	No Trend	NA	6/25/2025	0.0049	Yes		No			NA	No
WAP-28	12/12	0%	NA	0.0155	0.0158	0.0203	0.0211	25%	12	0	Decreasing	NA	7/14/2025	0.0081	Yes		No			NA	No
WAP-3	11/21	48%	0.0005 - 0.0005	0.0008	0.0005	0.0018	0.0025	64%	0	0	No Trend	NA	6/26/2025	0.0016	Yes		No			NA	No
CCR Appendix IV: Fluoride, Total (mg/L)																				
WAP-1	2/25	92%	0.1 - 0.1	0.103	0.100	0.124	0.14	10%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.1	No	0.14	NA	4	4	NA	NA
WBW-1	1/25	96%	0.1 - 0.1	0.100	0.100	0.100	0.1	0%	0	0	Not Evaluated		6/25/2025	0.1	No		NA			NA	NA
WAP-12	1/25	96%	0.1 - 0.1	0.102	0.100	0.100	0.16	12%	0	0	Not Evaluated	NA	7/10/2025	0.1	No		No			NA	No
WAP-13	8/25	68%	0.1 - 0.1	0.12	0.10	0.19	0.21	27%	0	0	Stable	NA	7/14/2025	0.1	No		No			NA	No
WAP-2	3/25	88%	0.1 - 0.1	0.109	0.100	0.134	0.28	33%	0	0	Stable	NA	6/25/2025	0.1	No		No			NA	No
WAP-28	12/12	0%	NA	0.287	0.272	0.445	0.45	38%	0	0	Stable	NA	7/14/2025	0.12	Yes		No			NA	No
WAP-3	14/25	44%	0.1 - 0.1	0.126	0.102	0.210	0.22	31%	0	0	Stable	NA	6/26/2025	0.1	No		No			NA	No
CCR Appendix IV: Lead, Total (mg/L)																				
WAP-1	4/25	84%	0.001 - 0.01	0.002	0.001	0.004	0.00456	103%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.001	No	0.01	NA	0.015	0.015	NA	NA
WBW-1	0/23	100%	0.001 - 0.01	0.002	0.001	0.009	NA	122%	0	0	Not Evaluated		6/25/2025	0.001	No		NA			NA	NA
WAP-12	0/21	100%	0.001 - 0.025	0.003	0.001	0.010	NA	187%	0	1	Not Evaluated	NA	7/10/2025	0.001	No		No			NA	No
WAP-13	0/21	100%	0.001 - 0.01	0.002	0.001	0.003	NA	108%	0	0	Not Evaluated	NA	7/14/2025	0.001	No		No			NA	No
WAP-2	0/25	100%	0.001 - 0.0025	0.001	0.001	0.003	NA	47%	0	0	Not Evaluated	NA	6/25/2025	0.001	No		No			NA	No
WAP-28	9/12	25%	0.001 - 0.0025	0.002	0.002	0.004	0.0037	39%	0	0	Stable	NA	7/14/2025	0.001	No		No			NA	No
WAP-3	0/25	100%	0.001 - 0.0025	0.001	0.001	0.003	NA	47%	0	0	Not Evaluated	NA	6/26/2025	0.001	No		No			NA	No
CCR Appendix IV: Lithium, Total (mg/L)																				
WAP-1	1/24	96%	0.005 - 0.01	0.0086	0.0100	0.0100	0.0116	28%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.0116	NA	0.04	0.04	NA	NA
WBW-1	1/24	96%	0.005 - 0.01	0.0088	0.0100	0.0100	0.0099	25%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA	NA
WAP-12	0/21	100%	0.005 - 0.05	0.0102	0.0100	0.0100	NA	92%	0	1	Not Evaluated	NA	7/10/2025	0.005	No		No			NA	No
WAP-13	13/21	38%	0.01 - 0.01	0.0251	0.0120	0.1310	0.151	155%	2	0	No Trend	NA	7/14/2025	0.0137	Yes		Yes			NA	No
WAP-2	12/21	43%	0.01 - 0.01	0.0127	0.0100	0.0202	0.0385	52%	0	0	No Trend	NA	6/25/2025	0.00992	Yes		No			NA	No
WAP-28	6/12	50%	0.005 - 0.005	0.0054	0.0050	0.0061	0.0061	9%	0	0	Probably Decreasing	NA	7/14/2025	0.005	No		No			NA	No
WAP-3	7/21	67%	0.005 - 0.01	0.0124	0.0100	0.0229	0.0259	41%	0	0	No Trend	NA	6/26/2025	0.0145	Yes		Yes			NA	No

TABLE 1
JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS SOUTH ASH POND)
WINYAH GENERATING STATION
SOUTH ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis							
													Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Mercury, Total (mg/L)																				
WAP-1	0/22	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0002	No	0.0002	NA	0.002	0.002	NA	NA
WBW-1	1/22	96%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.0002	0%	0	0	Not Evaluated		6/25/2025	0.0002	No		NA			NA	NA
WAP-12	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	7/10/2025	0.0002	No		No			NA	No
WAP-13	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.0002	No		No			NA	No
WAP-2	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	6/25/2025	0.0002	No		No			NA	No
WAP-28	0/12	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.0002	No		No			NA	No
WAP-3	1/20	95%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.000259	7%	0	0	Not Evaluated	NA	6/26/2025	0.0002	No		No			NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																				
WAP-1	0/24	100%	0.005 - 0.01	0.009	0.010	0.010	NA	27%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.05	NA	0.1	0.1	NA	NA
WBW-1	0/24	100%	0.005 - 0.05	0.010	0.010	0.010	NA	84%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA	NA
WAP-12	0/20	100%	0.005 - 0.01	0.009	0.010	0.010	NA	28%	0	0	Not Evaluated	NA	7/10/2025	0.005	No		No			NA	No
WAP-13	0/20	100%	0.005 - 0.01	0.009	0.010	0.010	NA	28%	0	0	Not Evaluated	NA	7/14/2025	0.005	No		No			NA	No
WAP-2	0/20	100%	0.005 - 0.01	0.008	0.010	0.010	NA	30%	0	0	Not Evaluated	NA	6/25/2025	0.005	No		No			NA	No
WAP-28	0/12	100%	0.005 - 0.01	0.005	0.005	0.007	NA	27%	0	0	Not Evaluated	NA	7/14/2025	0.005	No		No			NA	No
WAP-3	0/20	100%	0.005 - 0.01	0.008	0.010	0.010	NA	30%	0	0	Not Evaluated	NA	6/26/2025	0.005	No		No			NA	No
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																				
WAP-1	19/24	21%	4 -4	3.23	4.00	5.63	5.97	48%	4	0	No Trend	Non-Parametric (Pooled Background Data)	6/25/2025	2.14	Yes	5.97	NA	5	5.97	NA	NA
WBW-1	17/24	29%	0 - 4	2.9	3.6	4.3	4.39	50%	0	0	Stable		6/25/2025	2.24	Yes		NA			NA	NA
WAP-12	24/24	0%	NA	4.50	4.62	6.54	6.71	36%	10	0	No Trend	Parametric	7/10/2025	6.55	Yes		Yes			3.82	No
WAP-13	21/24	13%	4 - 4	3.76	3.87	5.96	6.35	31%	3	0	Stable	NA	7/14/2025	1.89	Yes		No			NA	No
WAP-2	25/26	4%	4 - 4	5.81	5.78	8.46	12.1	38%	18	0	Stable	NA	6/25/2025	3.94	Yes		No			NA	No
WAP-28	12/12	0%	NA	5.05	4.57	8.48	9.29	44%	4	0	Stable	NA	7/14/2025	2.28	Yes		No			NA	No
WAP-3	20/24	17%	4 - 4	3.39	4.00	4.72	6.56	41%	1	0	Stable	NA	6/26/2025	4.74	Yes		No			NA	No
CCR Appendix IV: Selenium, Total (mg/L)																				
WAP-1	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.01	No	0.02	NA	0.05	0.05	NA	NA
WBW-1	0/23	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated		6/25/2025	0.01	No		NA			NA	NA
WAP-12	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	44%	0	0	Not Evaluated	NA	7/10/2025	0.01	No		No			NA	No
WAP-13	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	44%	0	0	Not Evaluated	NA	7/14/2025	0.01	No		No			NA	No
WAP-2	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	39%	0	0	Not Evaluated	NA	6/25/2025	0.01	No		No			NA	No
WAP-28	2/12	83%	0.0025 - 0.02	0.010	0.010	0.020	0.005	52%	0	0	Not Evaluated	NA	7/14/2025	0.01	No		No			NA	No
WAP-3	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	39%	0	0	Not Evaluated	NA	6/26/2025	0.01	No		No			NA	No
CCR Appendix IV: Thallium, Total (mg/L)																				
WAP-1	0/22	100%	0.0001 - 0.001	0.001	0.001	0.001	NA	20%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.001	No	0.001	NA	0.002	0.002	NA	NA
WBW-1	0/22	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		6/25/2025	0.001	No		NA			NA	NA
WAP-12	0/20	100%	0.001 - 0.01	0.001	0.001	0.001	NA	139%	0	1	Not Evaluated	NA	7/10/2025	0.001	No		No			NA	No
WAP-13	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.001	No		No			NA	No
WAP-2	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/25/2025	0.001	No		No			NA	No
WAP-28	0/12	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	7/14/2025	0.001	No		No			NA	No
WAP-3	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/26/2025	0.001	No		No			NA	No

Notes:

[a] Mann-Kendall Trends calculated from the eight most recent samples at a 95% confidence limits and trend classifications are determined based on guidance from the Monitoring and Remediation Optimization System (Aziz, 2003). Recent trend date ranges vary by well/constituent and are included in Attachment A, Table A-4. 'Probably increasing' and 'probably decreasing' trends indicate that while no statistically significant trend was identified at the indicated confidence level, data suggest emerging trends at a lower confidence level. Data sets that do not meet test requirements, such as having a detection rate of at least 25%, are labeled as 'Not Evaluated'.

[b] Interwell Tolerance Limits are calculated from data collected from pooled upgradient well data (WBW-1 and WAP-1) through July 2025. No statistical outlier data points were removed from background datasets.

MCL/RSL: Maximum contaminant level/Regional screening level

mg/L: milligrams per liter, pCi/L: picocuries per liter

NA: not applicable

ATTACHMENT A
Statistical Output, June and July 2025

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
Pooled Background	Antimony	mg/L	44	43	98	0.025	0.002	0.00585	0.005	0.0043	72.7	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-1 (Background)	Antimony	mg/L	22	21	95	0.025	0.002	0.00579	0.005	0.0043	75	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-12	Antimony	mg/L	20	20	100	0.025	0.002	0.00585	0.005	0.0046	77.9	0.002 - 0.025	2015-11-10 to 2025-07-10
WAP-13	Antimony	mg/L	20	20	100	0.025	0.002	0.00585	0.005	0.0046	77.9	0.002 - 0.025	2015-11-10 to 2025-07-14
WAP-2	Antimony	mg/L	20	19	95	0.025	0.002	0.00592	0.005	0.0046	77	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-28	Antimony	mg/L	12	12	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2022-10-21 to 2025-07-14
WAP-3	Antimony	mg/L	20	18	90	0.025	0.002	0.00585	0.005	0.0046	77.8	0.002 - 0.025	2015-11-11 to 2025-06-26
WBW-1 (Background)	Antimony	mg/L	22	22	100	0.025	0.005	0.00591	0.005	0.0043	72.2	0.005 - 0.025	2015-11-10 to 2025-06-25
Pooled Background	Arsenic	mg/L	50	43	86	0.0096	0.003	0.00498	0.005	0.0013	26	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Arsenic	mg/L	26	19	73	0.0096	0.003	0.00542	0.005	0.0015	27	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-12	Arsenic	mg/L	21	16	76	0.03	0.003	0.00609	0.005	0.0056	92.2	0.003 - 0.03	2015-11-10 to 2025-07-10
WAP-13	Arsenic	mg/L	21	18	86	0.0103	0.003	0.00482	0.005	0.0016	32.3	0.003 - 0.005	2015-11-10 to 2025-07-14
WAP-2	Arsenic	mg/L	26	18	69	0.0712	0.003	0.0127	0.005	0.016	128	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-28	Arsenic	mg/L	12	12	100	0.005	0.003	0.00417	0.005	0.001	24.7	0.003 - 0.005	2022-10-21 to 2025-07-14
WAP-3	Arsenic	mg/L	25	25	100	0.005	0.003	0.0046	0.005	0.00082	17.7	0.003 - 0.005	2015-11-11 to 2025-06-26
WBW-1 (Background)	Arsenic	mg/L	24	24	100	0.005	0.003	0.0045	0.005	0.00088	19.7	0.003 - 0.005	2015-11-10 to 2025-06-25
Pooled Background	Barium	mg/L	50	0	0	0.094	0.0058	0.0306	0.0222	0.023	76.6	NA	2015-11-10 to 2025-06-25
WAP-1 (Background)	Barium	mg/L	26	0	0	0.094	0.0058	0.042	0.0418	0.026	62.3	NA	2015-11-10 to 2025-06-25
WAP-12	Barium	mg/L	24	0	0	0.0871	0.0156	0.042	0.0362	0.018	43.5	NA	2015-11-10 to 2025-07-10
WAP-13	Barium	mg/L	24	0	0	0.34	0.196	0.264	0.262	0.031	11.7	NA	2015-11-10 to 2025-07-14
WAP-2	Barium	mg/L	26	0	0	0.436	0.00148	0.27	0.307	0.11	40.4	NA	2015-11-10 to 2025-06-25
WAP-28	Barium	mg/L	12	0	0	0.273	0.0867	0.188	0.182	0.058	31	NA	2022-10-21 to 2025-07-14
WAP-3	Barium	mg/L	26	0	0	0.224	0.0284	0.105	0.0925	0.054	52	NA	2015-11-11 to 2025-06-26
WBW-1 (Background)	Barium	mg/L	24	0	0	0.0534	0.0072	0.0183	0.0151	0.011	60.3	NA	2015-11-10 to 2025-06-25
Pooled Background	Beryllium	mg/L	44	44	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Beryllium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-12	Beryllium	mg/L	20	19	95	0.005	0.0005	0.000732	0.0005	0.001	137	0.0005 - 0.005	2015-11-10 to 2025-07-10
WAP-13	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-07-14
WAP-2	Beryllium	mg/L	20	15	75	0.0017	0.0005	0.000626	0.0005	0.00031	48.7	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-28	Beryllium	mg/L	12	4	33	0.002	0.0005	0.000794	0.000525	0.00046	58.5	0.0005 - 0.0005	2022-10-21 to 2025-07-14
WAP-3	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-06-26
WBW-1 (Background)	Beryllium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Cadmium	mg/L	48	48	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Cadmium	mg/L	25	25	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-12	Cadmium	mg/L	21	21	100	0.005	0.0005	0.000786	0.0005	0.001	130	0.0005 - 0.005	2015-11-10 to 2025-07-10
WAP-13	Cadmium	mg/L	21	21	100	0.002	0.0005	0.000571	0.0005	0.00033	57.3	0.0005 - 0.002	2015-11-10 to 2025-07-14
WAP-2	Cadmium	mg/L	25	25	100	0.002	0.0005	0.00056	0.0005	0.0003	53.6	0.0005 - 0.002	2015-11-10 to 2025-06-25
WAP-28	Cadmium	mg/L	12	12	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2022-10-21 to 2025-07-14
WAP-3	Cadmium	mg/L	25	25	100	0.002	0.0005	0.00056	0.0005	0.0003	53.6	0.0005 - 0.002	2015-11-11 to 2025-06-26
WBW-1 (Background)	Cadmium	mg/L	23	23	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Chromium	mg/L	48	47	98	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Chromium	mg/L	25	25	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
WAP-12	Chromium	mg/L	21	21	100	0.05	0.005	0.00738	0.005	0.0098	133	0.005 - 0.05	2015-11-10 to 2025-07-10
WAP-13	Chromium	mg/L	21	21	100	0.01	0.005	0.00524	0.005	0.0011	20.8	0.005 - 0.01	2015-11-10 to 2025-07-14
WAP-2	Chromium	mg/L	25	25	100	0.01	0.005	0.0052	0.005	0.001	19.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-28	Chromium	mg/L	12	12	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2022-10-21 to 2025-07-14
WAP-3	Chromium	mg/L	25	25	100	0.01	0.005	0.0052	0.005	0.001	19.2	0.005 - 0.01	2015-11-11 to 2025-06-26
WBW-1 (Background)	Chromium	mg/L	23	22	96	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
Pooled Background	Cobalt	mg/L	48	29	60	0.00838	0.0005	0.000933	0.0005	0.0012	132	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Cobalt	mg/L	24	13	54	0.0016	0.0005	0.000724	0.0005	0.00036	49.3	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-12	Cobalt	mg/L	21	9	43	0.00505	0.0005	0.0011	0.00062	0.0011	95.7	0.0005 - 0.0005	2015-11-10 to 2025-07-10
WAP-13	Cobalt	mg/L	21	10	48	0.00111	0.0005	0.000576	0.0005	0.00014	24.8	0.0005 - 0.0005	2015-11-10 to 2025-07-14
WAP-2	Cobalt	mg/L	21	15	71	0.0175	0.0005	0.00248	0.0005	0.0043	171	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-28	Cobalt	mg/L	12	0	0	0.0211	0.0081	0.0155	0.0158	0.0039	24.9	NA	2022-10-21 to 2025-07-14
WAP-3	Cobalt	mg/L	21	10	48	0.0025	0.0005	0.000842	0.00053	0.00054	64.4	0.0005 - 0.0005	2015-11-11 to 2025-06-26
WBW-1 (Background)	Cobalt	mg/L	24	16	67	0.00838	0.0005	0.00114	0.0005	0.0017	148	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Fluoride	mg/L	50	47	94	0.14	0.1	0.101	0.1	0.007	6.9	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-1 (Background)	Fluoride	mg/L	25	23	92	0.14	0.1	0.103	0.1	0.0098	9.53	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-12	Fluoride	mg/L	25	24	96	0.16	0.1	0.102	0.1	0.012	11.7	0.1 - 0.1	2015-11-10 to 2025-07-10
WAP-13	Fluoride	mg/L	25	17	68	0.21	0.1	0.116	0.1	0.031	26.6	0.1 - 0.1	2015-11-10 to 2025-07-14
WAP-2	Fluoride	mg/L	25	22	88	0.28	0.1	0.109	0.1	0.037	33.4	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-28	Fluoride	mg/L	12	0	0	0.45	0.12	0.287	0.272	0.11	37.7	NA	2022-10-21 to 2025-07-14
WAP-3	Fluoride	mg/L	25	11	44	0.22	0.1	0.126	0.102	0.039	30.7	0.1 - 0.1	2015-11-11 to 2025-06-26
WBW-1 (Background)	Fluoride	mg/L	25	24	96	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-10 to 2025-06-25
Pooled Background	Lead	mg/L	48	44	92	0.01	0.001	0.00198	0.001	0.0022	113	0.001 - 0.01	2015-11-10 to 2025-06-25
WAP-1 (Background)	Lead	mg/L	25	21	84	0.01	0.001	0.00185	0.001	0.0019	103	0.001 - 0.01	2015-11-10 to 2025-06-25
WAP-12	Lead	mg/L	21	21	100	0.025	0.001	0.0029	0.001	0.0054	187	0.001 - 0.025	2015-11-10 to 2025-07-10
WAP-13	Lead	mg/L	21	21	100	0.01	0.001	0.00183	0.001	0.002	108	0.001 - 0.01	2015-11-10 to 2025-07-14
WAP-2	Lead	mg/L	25	25	100	0.0025	0.001	0.00134	0.001	0.00062	46.6	0.001 - 0.0025	2015-11-10 to 2025-06-25

Notes: Data collected through the current reporting period are summarized in this table. Data sets used to calculate background limits are summarized in Table A-5 and may not include all data summarized here because background limits are only updated periodically.

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
WAP-28	Lead	mg/L	12	3	25	0.0037	0.001	0.00245	0.0024	0.00096	39.3	0.001 - 0.0025	2022-10-21 to 2025-07-14
WAP-3	Lead	mg/L	25	25	100	0.0025	0.001	0.00134	0.001	0.00062	46.6	0.001 - 0.0025	2015-11-11 to 2025-06-26
WBW-1 (Background)	Lead	mg/L	23	23	100	0.01	0.001	0.00211	0.001	0.0026	122	0.001 - 0.01	2015-11-10 to 2025-06-25
Pooled Background	Lithium	mg/L	48	46	96	0.0116	0.005	0.00868	0.01	0.0023	26.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-1 (Background)	Lithium	mg/L	24	23	96	0.0116	0.005	0.00861	0.01	0.0024	27.7	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-12	Lithium	mg/L	21	21	100	0.05	0.005	0.0102	0.01	0.0094	92	0.005 - 0.05	2015-11-10 to 2025-07-10
WAP-13	Lithium	mg/L	21	8	38	0.151	0.00863	0.0251	0.012	0.039	155	0.01 - 0.01	2015-11-10 to 2025-07-14
WAP-2	Lithium	mg/L	21	9	43	0.0385	0.00732	0.0127	0.01	0.0066	52.3	0.01 - 0.01	2015-11-10 to 2025-06-25
WAP-28	Lithium	mg/L	12	6	50	0.0061	0.005	0.00537	0.00503	0.00047	8.83	0.005 - 0.005	2022-10-21 to 2025-07-14
WAP-3	Lithium	mg/L	21	14	67	0.0259	0.005	0.0124	0.01	0.0051	41.4	0.005 - 0.01	2015-11-11 to 2025-06-26
WBW-1 (Background)	Lithium	mg/L	24	23	96	0.01	0.005	0.00875	0.01	0.0022	25.3	0.005 - 0.01	2015-11-10 to 2025-06-25
Pooled Background	Mercury	mg/L	44	43	98	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-1 (Background)	Mercury	mg/L	22	22	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-12	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-07-10
WAP-13	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-07-14
WAP-2	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-28	Mercury	mg/L	12	12	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2022-10-21 to 2025-07-14
WAP-3	Mercury	mg/L	20	19	95	0.000259	0.0002	0.000203	0.0002	1.3e-05	6.5	0.0002 - 0.0002	2015-11-11 to 2025-06-26
WBW-1 (Background)	Mercury	mg/L	22	21	95	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
Pooled Background	Molybdenum	mg/L	48	48	100	0.05	0.005	0.00948	0.01	0.0064	67.3	0.005 - 0.05	2015-11-10 to 2025-06-25
WAP-1 (Background)	Molybdenum	mg/L	24	24	100	0.01	0.005	0.00854	0.01	0.0023	27.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-12	Molybdenum	mg/L	20	20	100	0.01	0.005	0.0085	0.01	0.0024	27.7	0.005 - 0.01	2015-11-10 to 2025-07-10
WAP-13	Molybdenum	mg/L	20	20	100	0.01	0.005	0.0085	0.01	0.0024	27.7	0.005 - 0.01	2015-11-10 to 2025-07-14
WAP-2	Molybdenum	mg/L	20	20	100	0.01	0.005	0.00825	0.01	0.0024	29.7	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-28	Molybdenum	mg/L	12	12	100	0.01	0.005	0.00542	0.005	0.0014	26.6	0.005 - 0.01	2022-10-21 to 2025-07-14
WAP-3	Molybdenum	mg/L	20	20	100	0.01	0.005	0.00825	0.01	0.0024	29.7	0.005 - 0.01	2015-11-11 to 2025-06-26
WBW-1 (Background)	Molybdenum	mg/L	24	24	100	0.05	0.005	0.0104	0.01	0.0087	83.6	0.005 - 0.05	2015-11-10 to 2025-06-25
Pooled Background	Radium-226 & 228	pCi/L	48	12	25	5.97	0	3.05	4	1.5	48.8	0 - 4	2015-11-10 to 2025-06-25
WAP-1 (Background)	Radium-226 & 228	pCi/L	24	5	21	5.97	0.952	3.23	4	1.5	47.7	4 - 4	2015-11-10 to 2025-06-25
WAP-12	Radium-226 & 228	pCi/L	24	0	0	6.71	0.84	4.5	4.62	1.6	35.8	NA	2015-11-10 to 2025-07-10
WAP-13	Radium-226 & 228	pCi/L	24	3	12	6.35	1.84	3.76	3.87	1.2	31.3	4 - 4	2015-11-10 to 2025-07-14
WAP-2	Radium-226 & 228	pCi/L	26	1	4	12.1	1.61	5.81	5.78	2.2	38.3	4 - 4	2015-11-10 to 2025-06-25
WAP-28	Radium-226 & 228	pCi/L	12	0	0	9.29	2.28	5.05	4.57	2.2	43.6	NA	2022-10-21 to 2025-07-14
WAP-3	Radium-226 & 228	pCi/L	24	4	17	6.56	0.358	3.39	4	1.4	41.3	4 - 4	2015-11-11 to 2025-06-26
WBW-1 (Background)	Radium-226 & 228	pCi/L	24	7	29	4.39	0	2.87	3.58	1.4	50.3	0 - 4	2015-11-10 to 2025-06-25
Pooled Background	Selenium	mg/L	48	48	100	0.02	0.0025	0.0109	0.01	0.0042	38.2	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-1 (Background)	Selenium	mg/L	25	25	100	0.02	0.0025	0.0107	0.01	0.0039	36.6	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-12	Selenium	mg/L	21	21	100	0.02	0.0025	0.0111	0.01	0.0049	44.3	0.0025 - 0.02	2015-11-10 to 2025-07-10
WAP-13	Selenium	mg/L	21	21	100	0.02	0.0025	0.0111	0.01	0.0049	44.3	0.0025 - 0.02	2015-11-10 to 2025-07-14
WAP-2	Selenium	mg/L	25	25	100	0.02	0.0025	0.0105	0.01	0.0041	38.9	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-28	Selenium	mg/L	12	10	83	0.02	0.0025	0.0102	0.01	0.0053	52.3	0.0025 - 0.02	2022-10-21 to 2025-07-14
WAP-3	Selenium	mg/L	25	25	100	0.02	0.0025	0.0105	0.01	0.0041	38.9	0.0025 - 0.02	2015-11-11 to 2025-06-26
WBW-1 (Background)	Selenium	mg/L	23	23	100	0.02	0.0025	0.0112	0.01	0.0045	40.3	0.0025 - 0.02	2015-11-10 to 2025-06-25
Pooled Background	Thallium	mg/L	44	44	100	0.001	0.0001	0.00098	0.001	0.00014	13.9	0.0001 - 0.001	2015-11-10 to 2025-06-25
WAP-1 (Background)	Thallium	mg/L	22	22	100	0.001	0.0001	0.000959	0.001	0.00019	20	0.0001 - 0.001	2015-11-10 to 2025-06-25
WAP-12	Thallium	mg/L	20	20	100	0.01	0.001	0.00145	0.001	0.002	139	0.001 - 0.01	2015-11-10 to 2025-07-10
WAP-13	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-07-14
WAP-2	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-06-25
WAP-28	Thallium	mg/L	12	12	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2022-10-21 to 2025-07-14
WAP-3	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-06-26
WBW-1 (Background)	Thallium	mg/L	22	22	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-06-25

Notes: Data collected through the current reporting period are summarized in this table. Data sets used to calculate background limits are summarized in Table A-5 and may not include all data summarized here because background limits are only updated periodically.

Table A-2. Results of Shapiro-Wilk Test for Normality

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
		W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Antimony	0.291	2.8e-13	44	43	Not normal
WAP-1 (Background)	Antimony	0.366	9e-09	22	21	Not normal
WAP-12	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Antimony	0.407	5.1e-08	20	19	Not normal
WAP-28	Antimony	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Antimony	0.452	1.2e-07	20	18	Not normal
WBW-1 (Background)	Antimony	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Arsenic	0.568	6.7e-11	50	43	Not normal
WAP-1 (Background)	Arsenic	0.682	3.1e-06	26	19	Not normal
WAP-12	Arsenic	0.657	8.3e-06	21	16	Not normal
WAP-13	Arsenic	0.577	1.1e-06	21	18	Not normal
WAP-2	Arsenic	0.611	3.9e-07	26	18	Not normal
WAP-28	Arsenic	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Arsenic	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Arsenic	NA	NA	24	24	Not Evaluated - All Non-Detect Results
Pooled Background	Barium	0.859	2.7e-05	50	0	Not normal
WAP-1 (Background)	Barium	0.944	0.17	26	0	Normal
WAP-12	Barium	0.925	0.077	24	0	Normal
WAP-13	Barium	0.973	0.75	24	0	Normal
WAP-2	Barium	0.901	0.017	26	0	Not normal
WAP-28	Barium	0.947	0.6	12	0	Normal
WAP-3	Barium	0.939	0.13	26	0	Normal
WBW-1 (Background)	Barium	0.762	7.5e-05	24	0	Not normal
Pooled Background	Beryllium	NA	NA	44	44	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Beryllium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-12	Beryllium	0.293	6.8e-09	20	19	Not normal
WAP-13	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Beryllium	0.565	1.3e-06	20	15	Not normal
WAP-28	Beryllium	0.837	0.025	12	4	Not normal
WAP-3	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Beryllium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-12	Cadmium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-13	Cadmium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-2	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-28	Cadmium	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Cadmium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.129	2.4e-15	48	47	Not normal
WAP-1 (Background)	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-12	Chromium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-13	Chromium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-2	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-28	Chromium	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Chromium	0.215	4e-10	23	22	Not normal
Pooled Background	Cobalt	0.446	3.3e-12	48	29	Not normal
WAP-1 (Background)	Cobalt	0.757	6.2e-05	24	13	Not normal
WAP-12	Cobalt	0.690	2.1e-05	21	9	Not normal
WAP-13	Cobalt	0.805	0.00078	21	10	Not normal
WAP-2	Cobalt	0.559	7.5e-07	21	15	Not normal
WAP-28	Cobalt	0.970	0.91	12	0	Normal
WAP-3	Cobalt	0.784	0.00038	21	10	Not normal
WBW-1 (Background)	Cobalt	0.478	3.5e-08	24	16	Not normal
Pooled Background	Fluoride	0.259	1.8e-14	50	47	Not normal
WAP-1 (Background)	Fluoride	0.313	8.3e-10	25	23	Not normal
WAP-12	Fluoride	0.203	1.2e-10	25	24	Not normal
WAP-13	Fluoride	0.665	2.5e-06	25	17	Not normal
WAP-2	Fluoride	0.357	1.9e-09	25	22	Not normal
WAP-28	Fluoride	0.911	0.22	12	0	Normal
WAP-3	Fluoride	0.838	0.0011	25	11	Not normal
WBW-1 (Background)	Fluoride	0.203	1.2e-10	25	24	Not normal
Pooled Background	Lead	0.508	1.9e-11	48	44	Not normal
WAP-1 (Background)	Lead	0.550	1.2e-07	25	21	Not normal
WAP-12	Lead	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-13	Lead	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-2	Lead	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-28	Lead	0.918	0.27	12	3	Normal
WAP-3	Lead	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Lead	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Lithium	0.633	1e-09	48	46	Not normal
WAP-1 (Background)	Lithium	0.624	1.2e-06	24	23	Not normal
WAP-12	Lithium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-13	Lithium	0.478	1.3e-07	21	8	Not normal
WAP-2	Lithium	0.713	4.1e-05	21	9	Not normal
WAP-28	Lithium	0.725	0.0015	12	6	Not normal
WAP-3	Lithium	0.720	5e-05	21	14	Not normal
WBW-1 (Background)	Lithium	0.649	2.3e-06	24	23	Not normal
Pooled Background	Mercury	0.137	1.2e-14	44	43	Not normal
WAP-1 (Background)	Mercury	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-12	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-28	Mercury	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Mercury	0.236	2.7e-09	20	19	Not normal
WBW-1 (Background)	Mercury	0.221	7.4e-10	22	21	Not normal
Pooled Background	Molybdenum	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-12	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
		W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
WAP-13	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-28	Molybdenum	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
Pooled Background	Radium-226 & 228	0.889	0.00028	48	12	Not normal
WAP-1 (Background)	Radium-226 & 228	0.828	0.00089	24	5	Not normal
WAP-12	Radium-226 & 228	0.950	0.27	24	0	Normal
WAP-13	Radium-226 & 228	0.930	0.099	24	3	Normal
WAP-2	Radium-226 & 228	0.964	0.48	26	1	Normal
WAP-28	Radium-226 & 228	0.936	0.45	12	0	Normal
WAP-3	Radium-226 & 228	0.953	0.31	24	4	Normal
WBW-1 (Background)	Radium-226 & 228	0.896	0.018	24	7	Not normal
Pooled Background	Selenium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-12	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-13	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-2	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-28	Selenium	0.713	0.0011	12	10	Not normal
WAP-3	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Selenium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	44	44	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Thallium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-12	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-13	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-28	Thallium	NA	NA	12	12	Not Evaluated - All Non-Detect Results
WAP-3	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Thallium	NA	NA	22	22	Not Evaluated - All Non-Detect Results

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Table A-3. Results of Rosner/Dixon Test for Outliers

Location	Constituent	n	n, non-detects	Outlier Test	Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit) statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
Pooled Background	Antimony	44	43	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Antimony	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-12	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Antimony	20	19	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-28	Antimony	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Antimony	20	18	Dixon	1	0	NA	NA	Yes	No
WBW-1	Antimony	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Arsenic	50	43	Rosner	3.574, 3.23, 3.498	NA	3.128, 3.12, 3.112	3	NA	No
WAP-1	Arsenic	26	19	Rosner	2.86, 2.68, 3.1	NA	2.841, 2.822, 2.802	3	NA	No
WAP-12	Arsenic	21	16	Dixon	0.8785	0	NA	NA	Yes	No
WAP-13	Arsenic	21	18	Dixon	0.726	0	NA	NA	Yes	No
WAP-2	Arsenic	26	18	Rosner	3.609, 3.158, 3.012	NA	2.841, 2.822, 2.802	3	NA	No
WAP-28	Arsenic	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Arsenic	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Arsenic	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Barium	50	0	Rosner	2.707, 2.373, 2.555	NA	3.128, 3.12, 3.112	0	NA	No
WAP-1	Barium	26	0	Rosner	1.99, 1.686, 1.836	NA	2.841, 2.822, 2.802	0	NA	No
WAP-12	Barium	24	0	Dixon	0.376	0.1766	NA	NA	No	No
WAP-13	Barium	24	0	Dixon	0.3302	0.3197	NA	NA	No	No
WAP-2	Barium	26	0	Rosner	2.464, 2.01, 2.204	NA	2.841, 2.822, 2.802	0	NA	No
WAP-28	Barium	12	0	Dixon	0.3287	0.7874	NA	NA	No	No
WAP-3	Barium	26	0	Rosner	2.188, 2.009, 1.974	NA	2.841, 2.822, 2.802	0	NA	No
WBW-1	Barium	24	0	Dixon	0.4943	0.02127	NA	NA	Yes	No
Pooled Background	Beryllium	44	44	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Beryllium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Beryllium	20	19	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-13	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Beryllium	20	15	Dixon	0.7667	0	NA	NA	Yes	No
WAP-28	Beryllium	12	4	Dixon	0.6667	0.01201	NA	NA	Yes	No
WAP-3	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Beryllium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Cadmium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Cadmium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Cadmium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Cadmium	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Cadmium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Chromium	48	47	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Chromium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Chromium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Chromium	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Chromium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Cobalt	48	29	Rosner	6.061, 4.258, 3.618	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Cobalt	24	13	Dixon	0.1727	0.805	NA	NA	No	No
WAP-12	Cobalt	21	9	Dixon	0.6923	0	NA	NA	Yes	No
WAP-13	Cobalt	21	10	Dixon	0.7705	0	NA	NA	Yes	No
WAP-2	Cobalt	21	15	Dixon	0.6118	0	NA	NA	Yes	No
WAP-28	Cobalt	12	0	Dixon	0.3362	0.7521	NA	NA	No	No
WAP-3	Cobalt	21	10	Dixon	0.45	0.08522	NA	NA	No	No
WBW-1	Cobalt	24	16	Dixon	0.7716	0	NA	NA	Yes	No
Pooled Background	Fluoride	50	47	Rosner	5.513, 6.857, NA	NA	3.128, 3.12, 3.112	2	NA	No
WAP-1	Fluoride	25	23	Dixon	1	0	NA	NA	Yes	No
WAP-12	Fluoride	25	24	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-13	Fluoride	25	17	Dixon	0.4545	0.04189	NA	NA	Yes	No
WAP-2	Fluoride	25	22	Dixon	0.9444	0	NA	NA	Yes	No
WAP-28	Fluoride	12	0	Dixon	0.3438	0.7173	NA	NA	No	No
WAP-3	Fluoride	25	11	Dixon	0.08333	0.2524	NA	NA	No	No
WBW-1	Fluoride	25	24	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Lead	48	44	Rosner	3.603, 4.296, 5.652	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Lead	25	21	Dixon	0.8333	0	NA	NA	Yes	No
WAP-12	Lead	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Lead	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Lead	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Lead	12	3	Dixon	0.1923	0.5369	NA	NA	No	No
WAP-3	Lead	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Lead	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Lithium	48	46	Rosner	1.615, 1.68, 1.754	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-12	Lithium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Lithium	21	8	Dixon	0.856	0	NA	NA	Yes	No
WAP-2	Lithium	21	9	Dixon	0.7663	0	NA	NA	Yes	No
WAP-28	Lithium	12	6	Dixon	0.06364	0.07121	NA	NA	No	No
WAP-3	Lithium	21	14	Dixon	0.3082	0.4972	NA	NA	No	No
WBW-1	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Mercury	44	43	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Mercury	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Mercury	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Mercury	20	19	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Mercury	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Molybdenum	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Molybdenum	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
WAP-3	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Radium-226 & 228	48	12	Rosner	2.049, 1.994, 1.944	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Radium-226 & 228	24	5	Dixon	0.2022	0.9921	NA	NA	No	No
WAP-12	Radium-226 & 228	24	0	Dixon	0.1869	0.9033	NA	NA	No	No
WAP-13	Radium-226 & 228	24	3	Dixon	0.1377	0.5713	NA	NA	No	No
WAP-2	Radium-226 & 228	26	1	Rosner	2.828, 2.125, 1.637	NA	2.841, 2.822, 2.802	0	NA	No
WAP-28	Radium-226 & 228	12	0	Dixon	0.3188	0.8342	NA	NA	No	No
WAP-3	Radium-226 & 228	24	4	Dixon	0.3772	0.1735	NA	NA	No	No
WBW-1	Radium-226 & 228	24	7	Dixon	0.1449	0.6191	NA	NA	No	No
Pooled Background	Selenium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Selenium	12	10	Dixon	0.6443	0.01909	NA	NA	Yes	No
WAP-3	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Selenium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Thallium	44	44	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Thallium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-12	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-13	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-2	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-28	Thallium	12	12	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-3	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Thallium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall Test

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
Pooled Background	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	44	1	0.722	NA	NA	NA	NA	8	1	2023-02-14 to 2025-06-25	0.347	NA	NA	NA	NA
WAP-1 (Background)	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.739	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.446	NA	NA	NA	NA
WAP-12	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.779	NA	NA	NA	NA	8	0	2018-06-05 to 2025-07-10	0.229	NA	NA	NA	NA
WAP-13	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.779	NA	NA	NA	NA	8	0	2018-06-04 to 2025-07-14	0.229	NA	NA	NA	NA
WAP-2	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	20	1	0.769	NA	NA	NA	NA	8	1	2018-06-04 to 2025-06-25	0.543	NA	NA	NA	NA
WAP-28	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0	NA	NA	NA	NA
WAP-3	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	20	2	0.743	NA	NA	NA	NA	8	2	2018-06-04 to 2025-06-26	0.473	0.713	0.0315	96.9	16
WBW-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.722	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Stable	50	7	0.613	NA	NA	NA	NA	8	3	2023-02-14 to 2025-06-25	0.626	-0.178	0.667	33.3	-4
WAP-1 (Background)	Arsenic	Increasing	No Trend	26	7	0.633	0.599	0.000125	100	148	8	6	2020-02-03 to 2025-06-25	0.441	0.0364	1	0	1
WAP-12	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	21	5	0.836	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-10	1.25	NA	NA	NA	NA
WAP-13	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	21	3	0.688	NA	NA	NA	NA	8	1	2019-02-06 to 2025-07-14	0.575	NA	NA	NA	NA
WAP-2	Arsenic	Increasing	No Trend	26	8	1.54	0.614	0.0000653	100	163	8	8	2020-06-02 to 2025-06-25	0.656	0.143	0.711	28.9	4
WAP-28	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0.247	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0.149	NA	NA	NA	NA
WAP-3	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.177	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-26	0.244	NA	NA	NA	NA
WBW-1 (Background)	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.197	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.267	NA	NA	NA	NA
Pooled Background	Barium	Increasing	Stable	50	50	0.766	0.284	0.0038	99.6	347	8	8	2023-02-14 to 2025-06-25	0.667	-0.357	0.266	73.4	-10
WAP-1 (Background)	Barium	Increasing	Stable	26	26	0.623	0.419	0.00292	99.7	136	8	8	2020-02-03 to 2025-06-25	0.308	-0.4	0.212	78.8	-11
WAP-12	Barium	Probably Decreasing	No Trend	24	24	0.435	-0.261	0.0782	92.2	-72	8	8	2020-02-03 to 2025-07-10	0.553	0.429	0.174	82.6	12
WAP-13	Barium	No Trend	Decreasing	24	24	0.117	0.0619	0.691	30.9	17	8	8	2020-02-04 to 2025-07-14	0.0822	-0.714	0.0187	98.1	-20
WAP-2	Barium	Stable	Stable	26	26	0.404	-0.182	0.201	79.9	-59	8	8	2020-02-03 to 2025-06-25	0.534	-0.5	0.108	89.2	-14
WAP-28	Barium	Decreasing	Decreasing	12	12	0.31	-0.818	0.000279	100	-54	8	8	2022-10-21 to 2025-07-14	0.249	-0.714	0.0187	98.1	-20
WAP-3	Barium	Increasing	No Trend	26	26	0.52	0.493	0.000456	100	160	8	8	2020-02-03 to 2025-06-26	0.221	0.286	0.386	61.4	8
WBW-1 (Background)	Barium	No Trend	Stable	24	24	0.603	0.186	0.214	78.6	51	8	8	2020-02-03 to 2025-06-25	0.498	-0.429	0.174	82.6	-12
Pooled Background	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	44	0	0	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-12	Beryllium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	20	1	1.32	NA	NA	NA	NA	8	0	2018-06-05 to 2025-07-10	1.5	NA	NA	NA	NA
WAP-13	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-07-14	0	NA	NA	NA	NA
WAP-2	Beryllium	Increasing	No Trend	20	5	0.898	0.538	0.00396	99.6	68	8	5	2018-06-04 to 2025-06-25	0.718	0.309	0.369	63.1	8
WAP-28	Beryllium	Decreasing	Decreasing	12	8	0.751	-0.826	0.000356	100	-52	8	4	2022-10-21 to 2025-07-14	0.436	-0.725	0.0239	97.6	-18
WAP-3	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-12	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	1.3	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-10	1.5	NA	NA	NA	NA
WAP-13	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.573	NA	NA	NA	NA	8	0	2019-02-06 to 2025-07-14	0	NA	NA	NA	NA
WAP-2	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.536	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-28	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0	NA	NA	NA	NA
WAP-3	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.536	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	48	1	0.141	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-12	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	1.33	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-10	1.5	NA	NA	NA	NA
WAP-13	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.208	NA	NA	NA	NA	8	0	2019-02-06 to 2025-07-14	0	NA	NA	NA	NA
WAP-2	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-28	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0	NA	NA	NA	NA
WAP-3	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.2	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Cobalt	Increasing	Stable	48	19	1.65	0.496	0.00000644	100	448	8	7	2023-02-14 to 2025-06-25	0.327	-0.357	0.266	73.4	-10
WAP-1 (Background)	Cobalt	Increasing	Stable	24	11	0.773	0.548	0.000565	99.9	128	8	8	2020-02-03 to 2025-06-25	0.339	-0.214	0.536	46.4	-6
WAP-12	Cobalt	Increasing	Stable	21	12	1.13	0.335	0.0469	95.3	64	8	8	2018-09-11 to 2025-07-10	0.716	-0.214	0.536	46.4	-6
WAP-13	Cobalt	Decreasing	Decreasing	21	11	0.517	-0.366	0.0315	96.9	-68	8	4	2018-09-11 to 2025-07-14	0.392	-0.806	0.0116	98.8	-20
WAP-2	Cobalt	Increasing	No Trend	21	6	1.89	0.586	0.00105	99.9	87	8	6	2018-09-10 to 2025-06-25	1.02	0.327	0.319	68.1	9
WAP-28	Cobalt	Decreasing	Decreasing	12	12	0.249	-0.848	0.000162	100	-56	8	8	2022-10-21 to 2025-07-14	0.239	-0.857	0.00443	99.6	-24
WAP-3	Cobalt	Probably Increasing	No Trend	21	11	0.87	0.285	0.0953	90.5	53	8	6	2018-09-11 to 2025-06-26	0.596	0.327	0.319	68.1	9
WBW-1 (Background)	Cobalt	Increasing	Decreasing	24	8	1.81	0.443	0.00684	99.3	92	8	7	2020-02-03 to 2025-06-25	1.24	-0.857	0.00443	99.6	-24
Pooled Background	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	50	3	0.333	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	2	0.415	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-12	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	25	1	0.404	NA	NA	NA	NA	8	0	2020-02-03 to 2025-07-10	0	NA	NA	NA	NA
WAP-13	Fluoride	No Trend	Stable	25	8	0.627	0.0822	0.629	37.1	18	8	4	2020-02-04 to 2025-07-14	0.46	0	1	0	0
WAP-2	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Stable	25	3	0.759	NA	NA	NA	NA	8	2	2020-02-03 to 2025-06-25	0.94	-0.262	0.511	48.9	-5
WAP-28	Fluoride	Decreasing	Stable	12	12	0.377	-0.554	0.0159	98.4	-36	8	8	2022-10-21 to 2025-07-14	0.289	-0.182	0.618	38.2	-5
WAP-3	Fluoride	Stable	Stable	25	14	0.555	-0.108	0.492	50.8	-29	8	3	2020-02-03 to 2025-06-26	0.423	0	1	0	0
WBW-1 (Background)	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	25	1	0.192	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	48	4	1.12	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	4	1.06	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.497	NA	NA	NA	NA
WAP-12	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	1.87	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-10	1.54	NA	NA	NA	NA
WAP-13	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	1.08	NA	NA	NA	NA	8	0	2019-02-06 to 2025-07-14	1.13	NA	NA	NA	NA

Note:

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		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-2	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.466	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.497	NA	NA	NA	NA
WAP-28	Lead	Decreasing	Stable	12	9	0.51	-0.595	0.009	99.1	-39	8	5	2022-10-21 to 2025-07-14	0.574	-0.255	0.454	54.6	-7
WAP-3	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.466	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-26	0.497	NA	NA	NA	NA
WBW-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	1.22	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	1.13	NA	NA	NA	NA
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	48	2	0.378	NA	NA	NA	NA	8	1	2023-02-14 to 2025-06-25	0.764	NA	NA	NA	NA
WAP-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.416	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
WAP-12	Lithium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.92	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-10	0.314	NA	NA	NA	NA
WAP-13	Lithium	No Trend	No Trend	21	13	1.71	-0.113	0.513	48.7	-22	8	7	2019-02-06 to 2025-07-14	0.296	0.429	0.174	82.6	12
WAP-2	Lithium	Increasing	No Trend	21	12	0.75	0.561	0.00082	99.9	107	8	8	2019-01-23 to 2025-06-25	0.606	0.0714	0.902	9.8	2
WAP-28	Lithium	Stable	Probably Decreasing	12	6	0.416	-0.19	0.461	53.9	-11	8	4	2022-10-21 to 2025-07-14	0.436	-0.564	0.0842	91.6	-14
WAP-3	Lithium	Increasing	No Trend	21	7	0.766	0.529	0.0025	99.8	88	8	7	2019-02-06 to 2025-06-26	0.464	0.357	0.266	73.4	10
WBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.345	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.706	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	44	1	0.147	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-12	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-07-10	0	NA	NA	NA	NA
WAP-13	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-07-14	0	NA	NA	NA	NA
WAP-2	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-06-25	0	NA	NA	NA	NA
WAP-28	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0	NA	NA	NA	NA
WAP-3	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	20	1	0.329	NA	NA	NA	NA	8	1	2018-06-04 to 2025-06-26	0.469	NA	NA	NA	NA
WBW-1 (Background)	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.204	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.673	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.272	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
WAP-12	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.277	NA	NA	NA	NA	8	0	2018-06-05 to 2025-07-10	0.37	NA	NA	NA	NA
WAP-13	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.277	NA	NA	NA	NA	8	0	2018-06-04 to 2025-07-14	0.37	NA	NA	NA	NA
WAP-2	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.297	NA	NA	NA	NA	8	0	2018-06-04 to 2025-06-25	0.314	NA	NA	NA	NA
WAP-28	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0.266	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0	NA	NA	NA	NA
WAP-3	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.297	NA	NA	NA	NA	8	0	2018-06-04 to 2025-06-26	0.314	NA	NA	NA	NA
WBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.836	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.37	NA	NA	NA	NA
Pooled Background	Radium-226 & 228	Stable	Stable	48	36	0.552	-0.107	0.295	70.5	-118	8	8	2023-02-14 to 2025-06-25	0.354	-0.214	0.536	46.4	-6
WAP-1 (Background)	Radium-226 & 228	Stable	No Trend	24	19	0.55	-0.159	0.295	70.5	-43	8	8	2020-02-03 to 2025-06-25	0.492	0.0364	1	0	1
WAP-12	Radium-226 & 228	Decreasing	No Trend	24	24	0.358	-0.377	0.0106	98.9	-104	8	8	2020-02-03 to 2025-07-10	0.431	0.5	0.108	89.2	14
WAP-13	Radium-226 & 228	Probably Decreasing	Stable	24	21	0.373	-0.288	0.0528	94.7	-79	8	8	2020-02-04 to 2025-07-14	0.291	-0.5	0.108	89.2	-14
WAP-2	Radium-226 & 228	Decreasing	Stable	26	25	0.406	-0.298	0.0343	96.6	-97	8	8	2020-06-02 to 2025-06-25	0.334	-0.0714	0.902	9.8	-2
WAP-28	Radium-226 & 228	Decreasing	Stable	12	12	0.436	-0.606	0.00749	99.3	-40	8	8	2022-10-21 to 2025-07-14	0.355	-0.5	0.108	89.2	-14
WAP-3	Radium-226 & 228	Stable	Stable	24	20	0.475	-0.0515	0.746	25.4	-14	8	8	2020-02-03 to 2025-06-26	0.455	-0.214	0.536	46.4	-6

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WBW-1 (Background)	Radium-226 & 228	Stable	Stable	24	17	0.547	-0.0448	0.783	21.7	-12	8	8	2020-02-03 to 2025-06-25	0.398	-0.357	0.266	73.4	-10
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.382	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.366	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.524	NA	NA	NA	NA
WAP-12	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.443	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-10	0.572	NA	NA	NA	NA
WAP-13	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.443	NA	NA	NA	NA	8	0	2019-02-06 to 2025-07-14	0.572	NA	NA	NA	NA
WAP-2	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.389	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.524	NA	NA	NA	NA
WAP-28	Selenium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	12	2	0.432	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0.314	NA	NA	NA	NA
WAP-3	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.389	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-26	0.524	NA	NA	NA	NA
WBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.403	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.572	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	44	0	0.139	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.2	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-12	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.39	NA	NA	NA	NA	8	0	2018-06-05 to 2025-07-10	1.5	NA	NA	NA	NA
WAP-13	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-07-14	0	NA	NA	NA	NA
WAP-2	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-06-25	0	NA	NA	NA	NA
WAP-28	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	12	0	0	NA	NA	NA	NA	8	0	2022-10-21 to 2025-07-14	0	NA	NA	NA	NA
WAP-3	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-04 to 2025-06-26	0	NA	NA	NA	NA
WBW 1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020 02 03 to 2025-06-25	0	NA	NA	NA	NA

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance.

Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS)

		Interwell Background Data Characterization [a]												Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		
Constituent	Units	n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method	UTL calculation details	Minimum Coverage (%)
Antimony	mg/L	44	43	0.025	0.0053	0.00585	0.005	2015-11-10	2025-06-25	0.00425	0.727	No Trend	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Arsenic	mg/L	50	43	0.005	0.0096	0.00498	0.005	2015-11-10	2025-06-25	0.00129	0.26	Increasing	Not normal (Interwell Background)	NA - Original Data	0.0096	Yes	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Barium	mg/L	50	0	NA	0.094	0.0306	0.0222	2015-11-10	2025-06-25	0.0234	0.766	Increasing	Not normal (Interwell Background)	NA - Original Data	0.094	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Beryllium	mg/L	44	44	0.0005	NA	0.0005	0.0005	2015-11-10	2025-06-25	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Cadmium	mg/L	48	48	0.0005	NA	0.0005	0.0005	2015-11-10	2025-06-25	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Chromium	mg/L	48	47	0.005	0.005	0.005	0.005	2015-11-10	2025-06-25	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Cobalt	mg/L	48	29	0.0005	0.00838	0.000933	0.0005	2015-11-10	2025-06-25	0.00123	1.32	Increasing	Not normal (Interwell Background)	NA - Original Data	0.00838	Yes	0.006	0.00838	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Fluoride	mg/L	50	47	0.1	0.14	0.101	0.1	2015-11-10	2025-06-25	0.007	0.069	Stable	Not normal (Interwell Background)	NA - Original Data	0.14	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lead	mg/L	48	44	0.01	0.00456	0.00198	0.001	2015-11-10	2025-06-25	0.00223	1.13	No Trend	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Lithium	mg/L	48	46	0.01	0.0116	0.00868	0.01	2015-11-10	2025-06-25	0.00228	0.262	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.0116	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Mercury	mg/L	44	43	0.0002	0.0002	0.0002	0.0002	2015-11-10	2025-06-25	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Molybdenum	mg/L	48	48	0.05	NA	0.00948	0.01	2015-11-10	2025-06-25	0.00638	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Radium-226 & 228	pCi/L	48	12	4	5.97	3.05	4	2015-11-10	2025-06-25	1.49	0.488	Decreasing	Not normal (Interwell Background)	NA - Original Data	5.97	Yes	5	5.97	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Selenium	mg/L	48	48	0.02	NA	0.0109	0.01	2015-11-10	2025-06-25	0.00418	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Thallium	mg/L	44	44	0.001	NA	0.00098	0.001	2015-11-10	2025-06-25	0.000136	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells. Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

			Confidence Interval (CI) Dataset						CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics	
Location	Chemical	Units	n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
WAP-2	Arsenic	mg/L	26	0.0712	0.003	0.005	0.0127	0.0162	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	25	0.0065	0.005	0.01	No	10000	0.005
WAP-12	Radium-226 & 228	pCi/L	24	6.71	0.84	4.62	4.5	1.61	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	5.18	3.82	5.97	No	NA	NA

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

[a] The 95% lower confience level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-1	Antimony	mg/L	2025-06-25	0.0053	0.025	0.025	No	NA	No
WAP-12	Antimony	mg/L	2025-07-10	0.005	0.025	0.025	No	NA	No
WAP-13	Antimony	mg/L	2025-07-14	0.005	0.025	0.025	No	NA	No
WAP-2	Antimony	mg/L	2025-06-25	0.0063	0.025	0.025	No	NA	No
WAP-28	Antimony	mg/L	2025-07-14	0.005	0.025	0.025	No	NA	No
WAP-3	Antimony	mg/L	2025-06-26	0.0051	0.025	0.025	No	NA	No
WBW-1	Antimony	mg/L	2025-06-25	0.005	0.025	0.025	No	NA	No
WAP-1	Arsenic	mg/L	2025-06-25	0.0057	0.0096	0.01	No	NA	No
WAP-12	Arsenic	mg/L	2025-07-10	0.005	0.0096	0.01	No	NA	No
WAP-13	Arsenic	mg/L	2025-07-14	0.005	0.0096	0.01	No	NA	No
WAP-2	Arsenic	mg/L	2025-06-25	0.0348	0.0096	0.01	Yes	0.005	No
WAP-28	Arsenic	mg/L	2025-07-14	0.005	0.0096	0.01	No	NA	No
WAP-3	Arsenic	mg/L	2025-06-26	0.005	0.0096	0.01	No	NA	No
WBW-1	Arsenic	mg/L	2025-06-25	0.005	0.0096	0.01	No	NA	No
WAP-1	Barium	mg/L	2025-06-25	0.0365	0.094	2	No	NA	No
WAP-12	Barium	mg/L	2025-07-10	0.0564	0.094	2	No	NA	No
WAP-13	Barium	mg/L	2025-07-14	0.237	0.094	2	No	NA	No
WAP-2	Barium	mg/L	2025-06-25	0.0875	0.094	2	No	NA	No
WAP-28	Barium	mg/L	2025-07-14	0.0867	0.094	2	No	NA	No
WAP-3	Barium	mg/L	2025-06-26	0.157	0.094	2	No	NA	No
WBW-1	Barium	mg/L	2025-06-25	0.0222	0.094	2	No	NA	No
WAP-1	Beryllium	mg/L	2025-06-25	0.0005	0.0005	0.004	No	NA	No
WAP-12	Beryllium	mg/L	2025-07-10	0.0005	0.0005	0.004	No	NA	No
WAP-13	Beryllium	mg/L	2025-07-14	0.0005	0.0005	0.004	No	NA	No
WAP-2	Beryllium	mg/L	2025-06-25	0.00078	0.0005	0.004	No	NA	No
WAP-28	Beryllium	mg/L	2025-07-14	0.0005	0.0005	0.004	No	NA	No
WAP-3	Beryllium	mg/L	2025-06-26	0.0005	0.0005	0.004	No	NA	No
WBW-1	Beryllium	mg/L	2025-06-25	0.0005	0.0005	0.004	No	NA	No
WAP-1	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-12	Cadmium	mg/L	2025-07-10	0.0005	0.0005	0.005	No	NA	No
WAP-13	Cadmium	mg/L	2025-07-14	0.0005	0.0005	0.005	No	NA	No
WAP-2	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-28	Cadmium	mg/L	2025-07-14	0.0005	0.0005	0.005	No	NA	No
WAP-3	Cadmium	mg/L	2025-06-26	0.0005	0.0005	0.005	No	NA	No
WBW-1	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-1	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-12	Chromium	mg/L	2025-07-10	0.005	0.005	0.1	No	NA	No
WAP-13	Chromium	mg/L	2025-07-14	0.005	0.005	0.1	No	NA	No
WAP-2	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-28	Chromium	mg/L	2025-07-14	0.005	0.005	0.1	No	NA	No
WAP-3	Chromium	mg/L	2025-06-26	0.005	0.005	0.1	No	NA	No
WBW-1	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-1	Cobalt	mg/L	2025-06-25	0.00094	0.00838	0.00838	No	NA	No
WAP-12	Cobalt	mg/L	2025-07-10	0.001	0.00838	0.00838	No	NA	No
WAP-13	Cobalt	mg/L	2025-07-14	0.0005	0.00838	0.00838	No	NA	No
WAP-2	Cobalt	mg/L	2025-06-25	0.0049	0.00838	0.00838	No	NA	No
WAP-28	Cobalt	mg/L	2025-07-14	0.0081	0.00838	0.00838	No	NA	No
WAP-3	Cobalt	mg/L	2025-06-26	0.0016	0.00838	0.00838	No	NA	No
WBW-1	Cobalt	mg/L	2025-06-25	0.0005	0.00838	0.00838	No	NA	No
WAP-1	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-12	Fluoride	mg/L	2025-07-10	0.1	0.14	4	No	NA	No
WAP-13	Fluoride	mg/L	2025-07-14	0.1	0.14	4	No	NA	No
WAP-2	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-28	Fluoride	mg/L	2025-07-14	0.12	0.14	4	No	NA	No
WAP-3	Fluoride	mg/L	2025-06-26	0.1	0.14	4	No	NA	No
WBW-1	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-1	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-12	Lead	mg/L	2025-07-10	0.001	0.01	0.015	No	NA	No
WAP-13	Lead	mg/L	2025-07-14	0.001	0.01	0.015	No	NA	No
WAP-2	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-28	Lead	mg/L	2025-07-14	0.001	0.01	0.015	No	NA	No
WAP-3	Lead	mg/L	2025-06-26	0.001	0.01	0.015	No	NA	No
WBW-1	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-1	Lithium	mg/L	2025-06-25	0.005	0.0116	0.04	No	NA	No
WAP-12	Lithium	mg/L	2025-07-10	0.005	0.0116	0.04	No	NA	No
WAP-13	Lithium	mg/L	2025-07-14	0.0137	0.0116	0.04	No	NA	No
WAP-2	Lithium	mg/L	2025-06-25	0.00992	0.0116	0.04	No	NA	No
WAP-28	Lithium	mg/L	2025-07-14	0.005	0.0116	0.04	No	NA	No
WAP-3	Lithium	mg/L	2025-06-26	0.0145	0.0116	0.04	No	NA	No
WBW-1	Lithium	mg/L	2025-06-25	0.005	0.0116	0.04	No	NA	No
WAP-1	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-12	Mercury	mg/L	2025-07-10	0.0002	0.0002	0.002	No	NA	No
WAP-13	Mercury	mg/L	2025-07-14	0.0002	0.0002	0.002	No	NA	No
WAP-2	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-28	Mercury	mg/L	2025-07-14	0.0002	0.0002	0.002	No	NA	No
WAP-3	Mercury	mg/L	2025-06-26	0.0002	0.0002	0.002	No	NA	No
WBW-1	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-1	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-12	Molybdenum	mg/L	2025-07-10	0.005	0.05	0.1	No	NA	No
WAP-13	Molybdenum	mg/L	2025-07-14	0.005	0.05	0.1	No	NA	No
WAP-2	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-28	Molybdenum	mg/L	2025-07-14	0.005	0.05	0.1	No	NA	No
WAP-3	Molybdenum	mg/L	2025-06-26	0.005	0.05	0.1	No	NA	No
WBW-1	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-1	Radium-226 & 228	pCi/L	2025-06-25	2.14	5.97	5.97	No	NA	No
WAP-12	Radium-226 & 228	pCi/L	2025-07-10	6.55	5.97	5.97	Yes	3.82	No
WAP-13	Radium-226 & 228	pCi/L	2025-07-14	1.89	5.97	5.97	No	NA	No
WAP-2	Radium-226 & 228	pCi/L	2025-06-25	3.94	5.97	5.97	No	NA	No
WAP-28	Radium-226 & 228	pCi/L	2025-07-14	2.28	5.97	5.97	No	NA	No
WAP-3	Radium-226 & 228	pCi/L	2025-06-26	4.74	5.97	5.97	No	NA	No
WBW-1	Radium-226 & 228	pCi/L	2025-06-25	2.24	5.97	5.97	No	NA	No
WAP-1	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-12	Selenium	mg/L	2025-07-10	0.01	0.02	0.05	No	NA	No
WAP-13	Selenium	mg/L	2025-07-14	0.01	0.02	0.05	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-2	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-28	Selenium	mg/L	2025-07-14	0.01	0.02	0.05	No	NA	No
WAP-3	Selenium	mg/L	2025-06-26	0.01	0.02	0.05	No	NA	No
WBW-1	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-1	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No
WAP-12	Thallium	mg/L	2025-07-10	0.001	0.001	0.002	No	NA	No
WAP-13	Thallium	mg/L	2025-07-14	0.001	0.001	0.002	No	NA	No
WAP-2	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No
WAP-28	Thallium	mg/L	2025-07-14	0.001	0.001	0.002	No	NA	No
WAP-3	Thallium	mg/L	2025-06-26	0.001	0.001	0.002	No	NA	No
WBW-1	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Trend Analysis for Antimony

Detection Status: ● Detect ○ Non−Detect

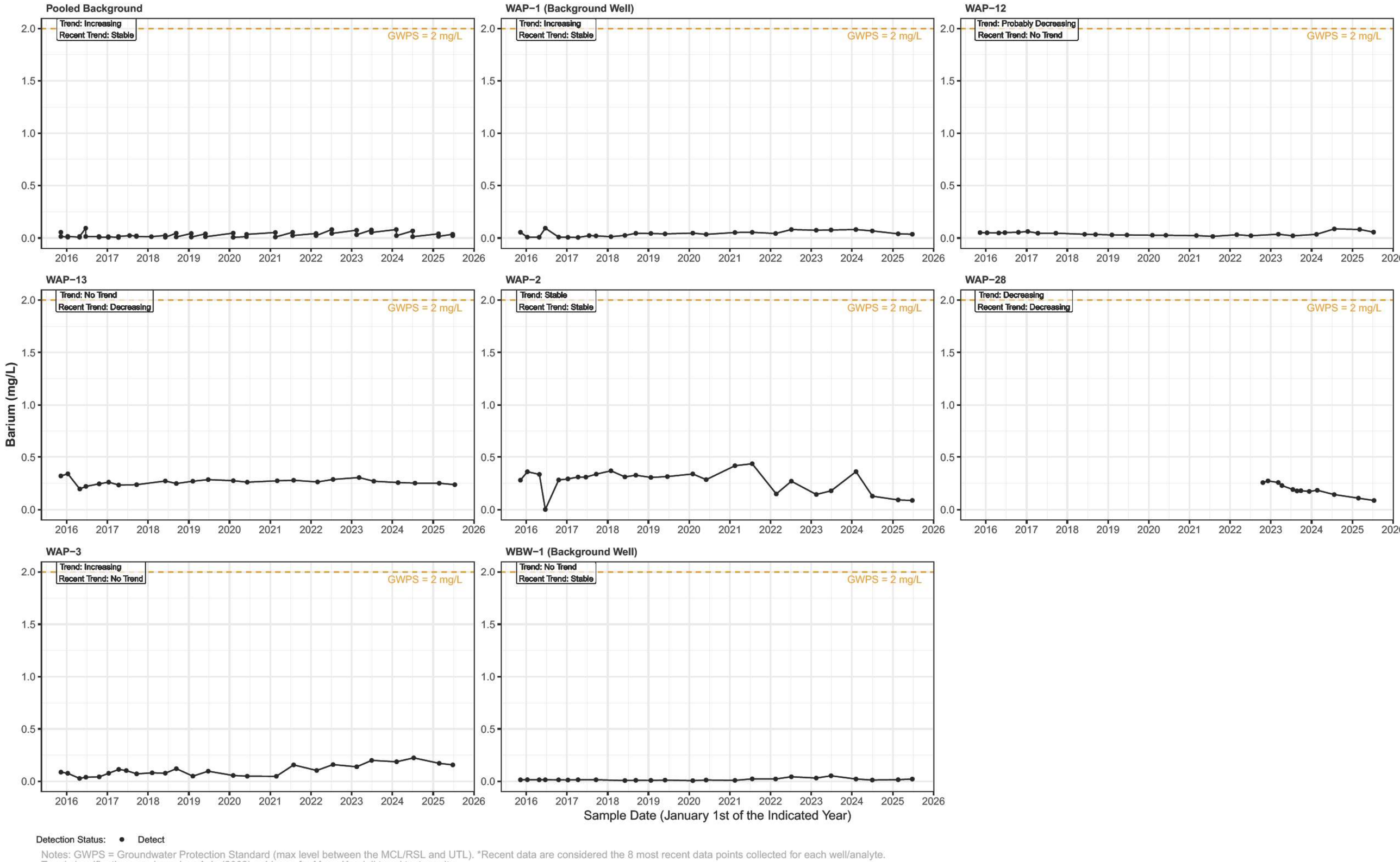
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis Plots for Arsenic



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Barium



Detection Status: ● Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Beryllium

Pooled Background
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.004 mg/L

WAP−1 (Background Well)
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.004 mg/L

WAP−12
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.004 mg/L

WAP−13
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.004 mg/L

WAP−2
Trend: Increasing
Recent Trend: No Trend
GWPS = 0.004 mg/L

WAP−28
Trend: Decreasing
Recent Trend: Decreasing
GWPS = 0.004 mg/L

WAP−3
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.004 mg/L

WBW−1 (Background Well)
Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.004 mg/L

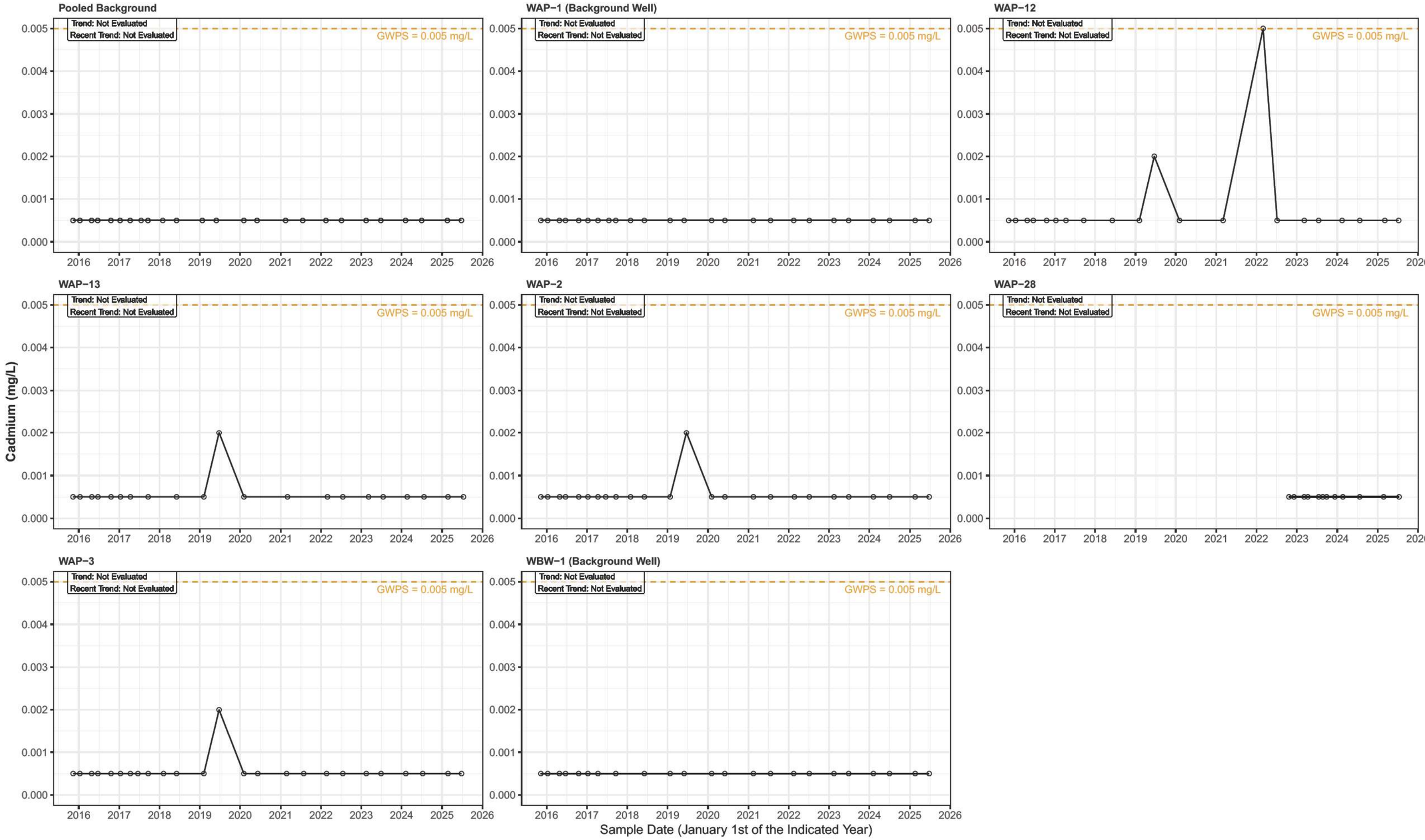
Beryllium (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

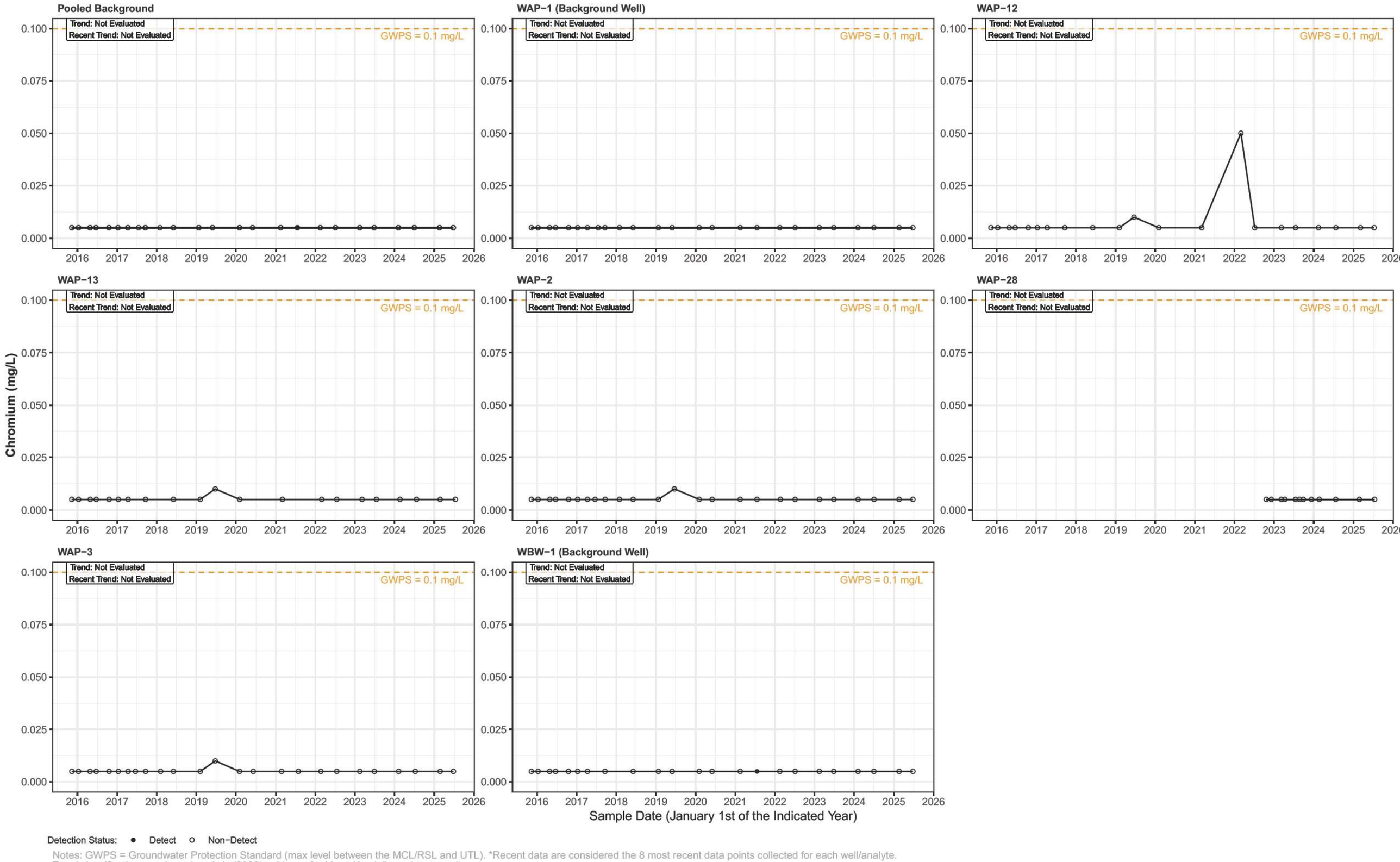
Trend Analysis for Cadmium



Detection Status: ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Chromium



Detection Status: ● Detect ○ Non−Detect

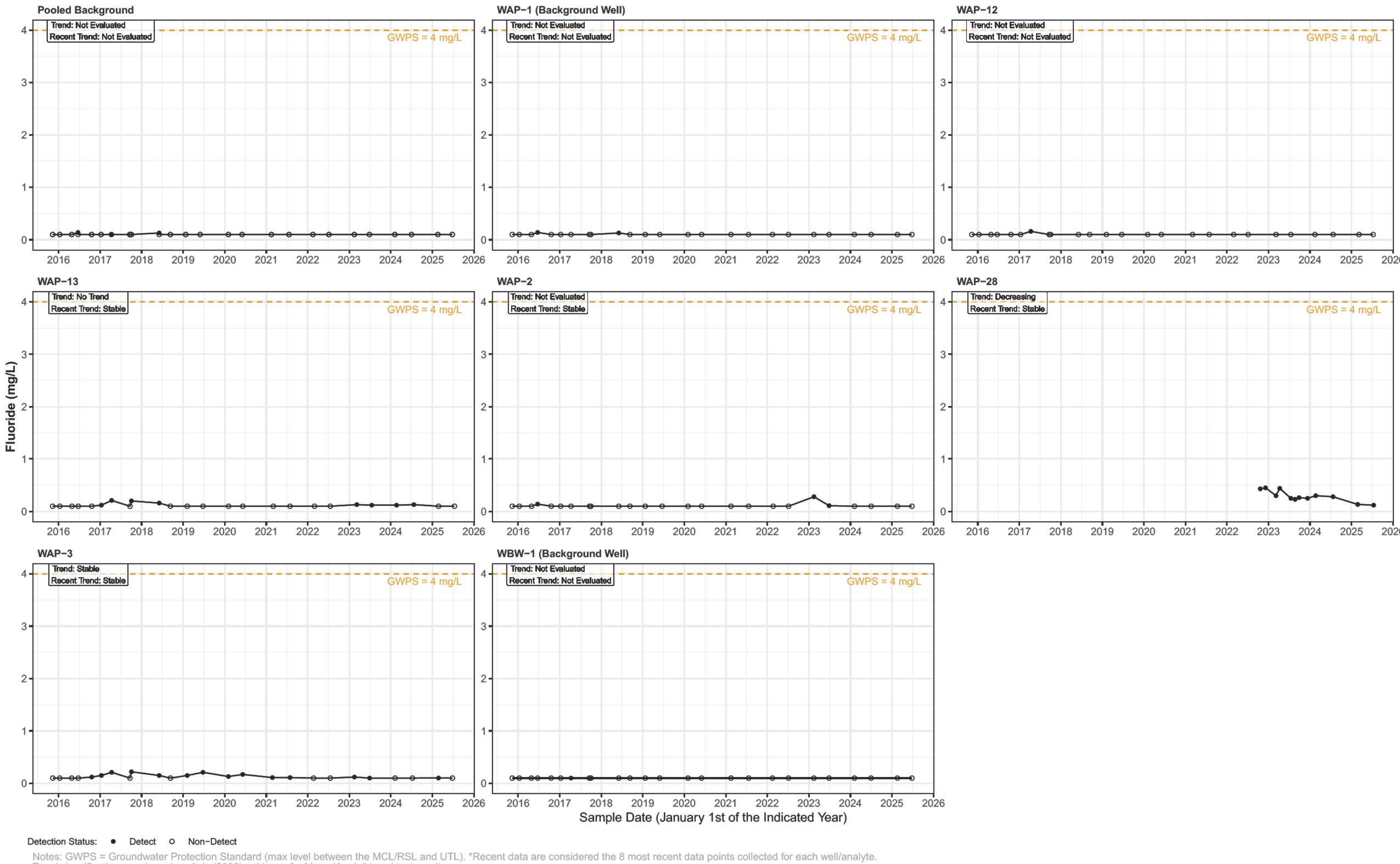
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Cobalt

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

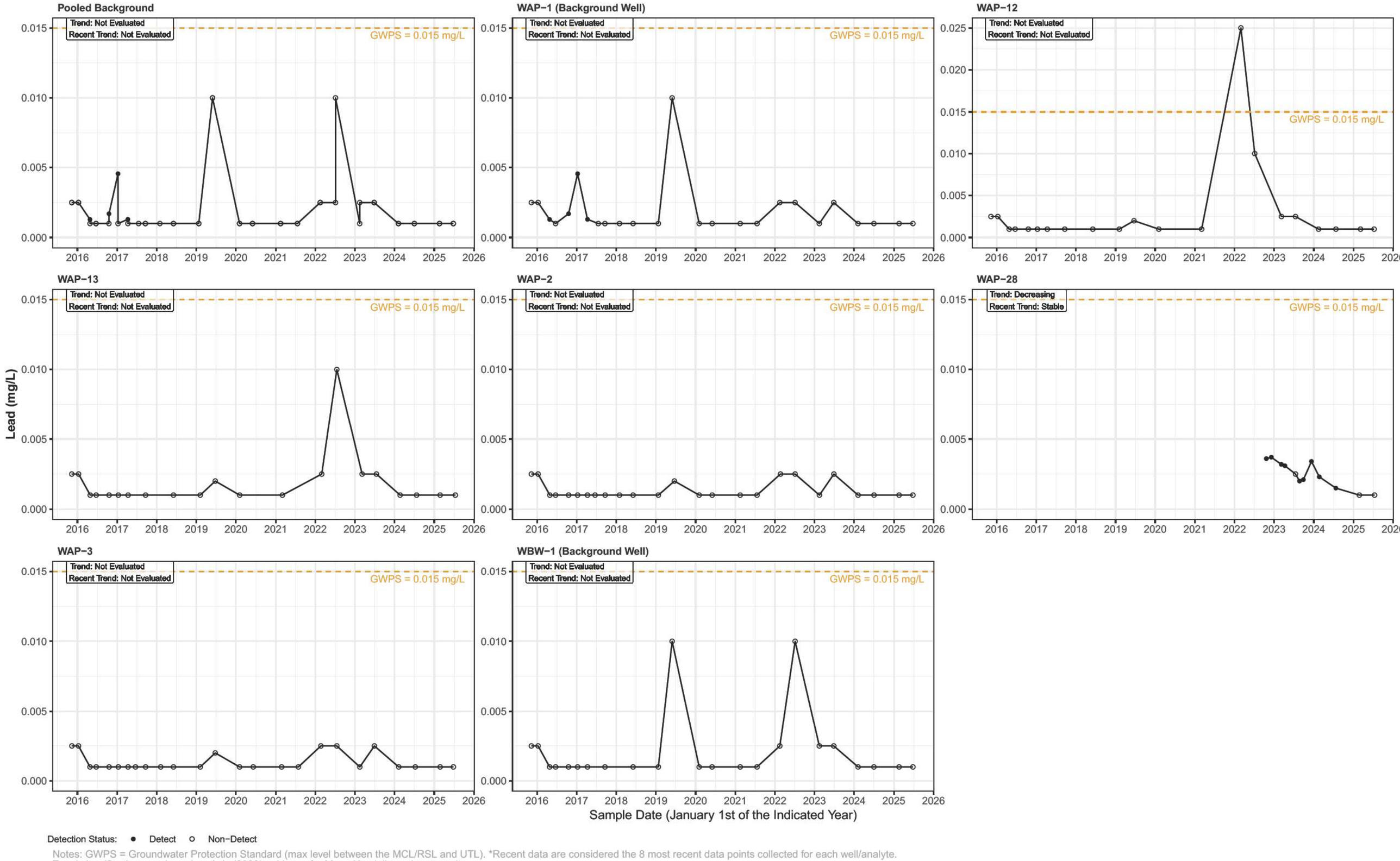
Trend Analysis for Fluoride



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

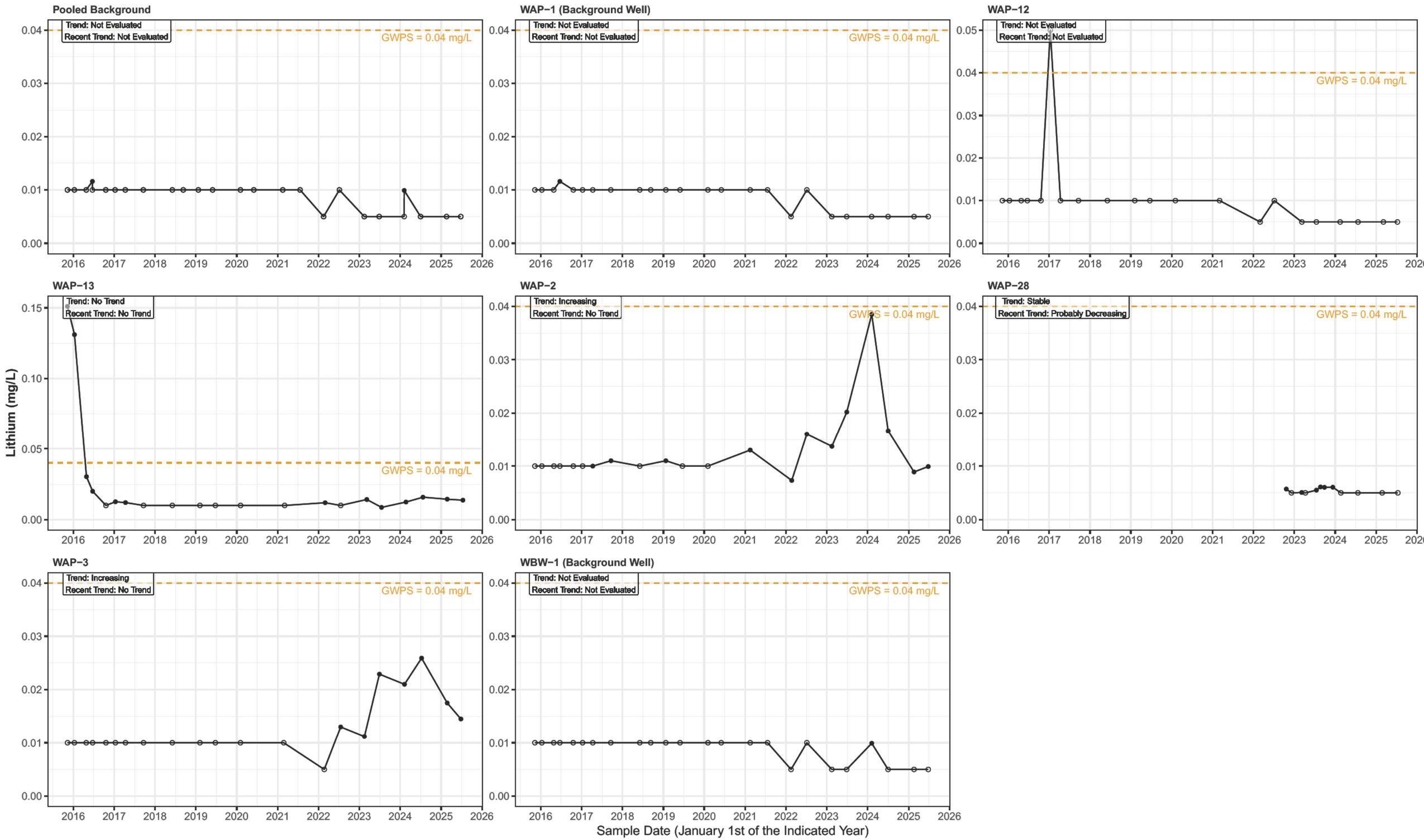
Trend Analysis for Lead



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

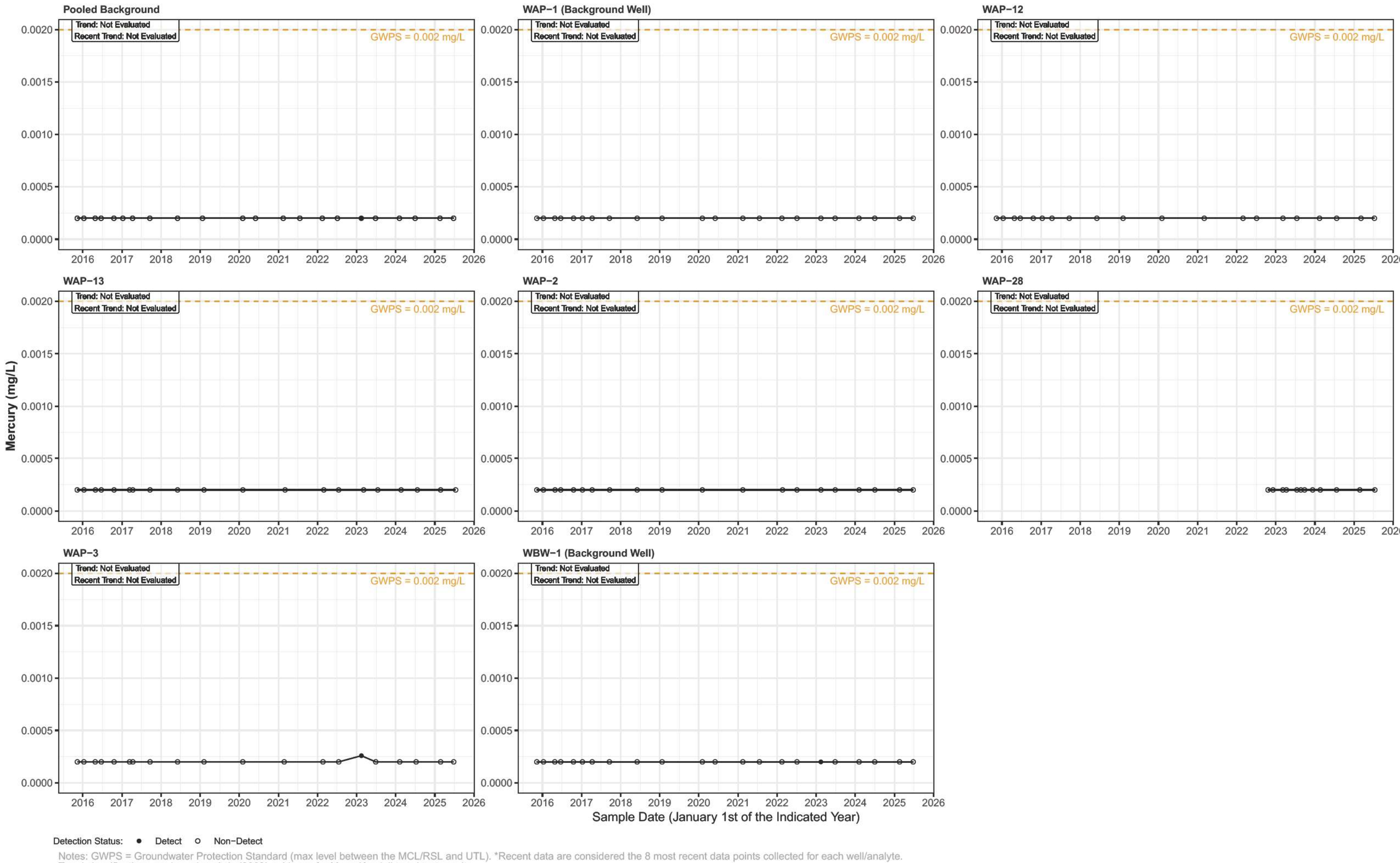
Trend Analysis for Lithium



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

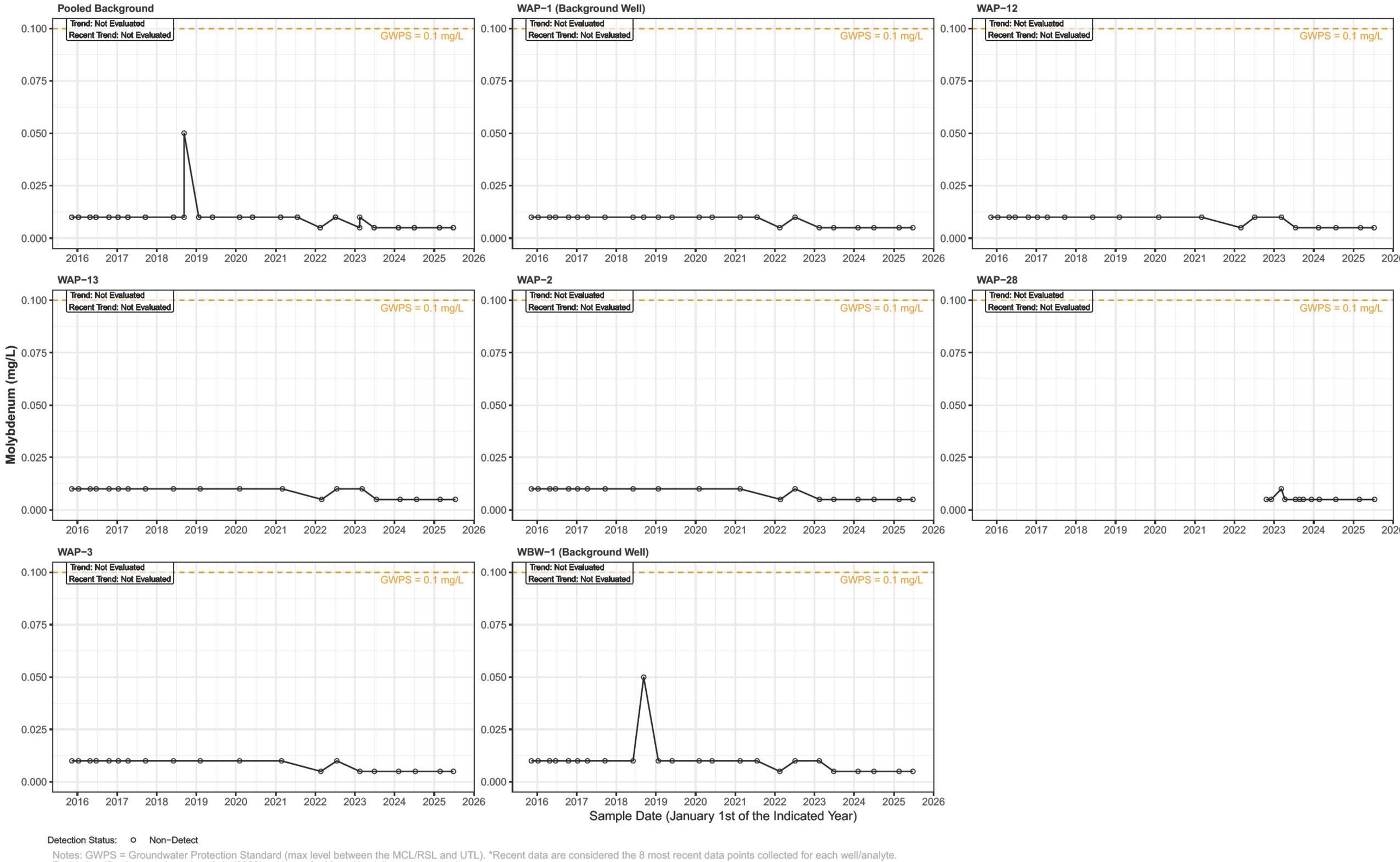
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

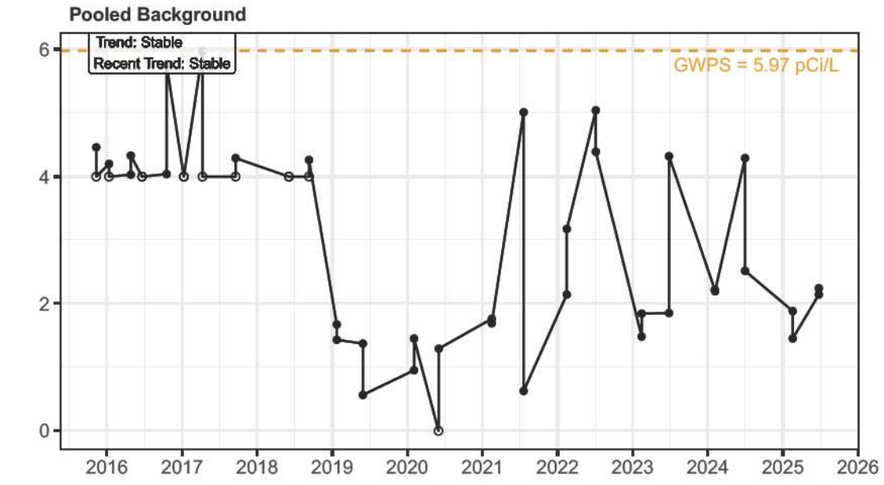
Trend Analysis for Molybdenum

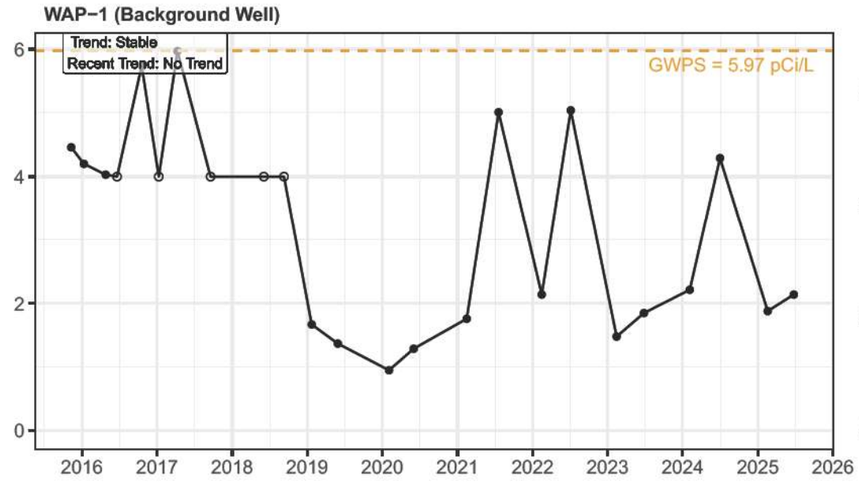


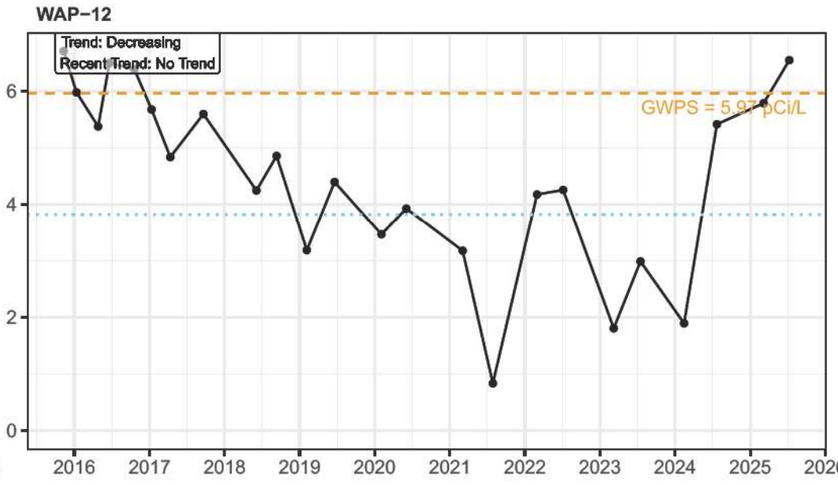
Detection Status: ○ Non−Detect

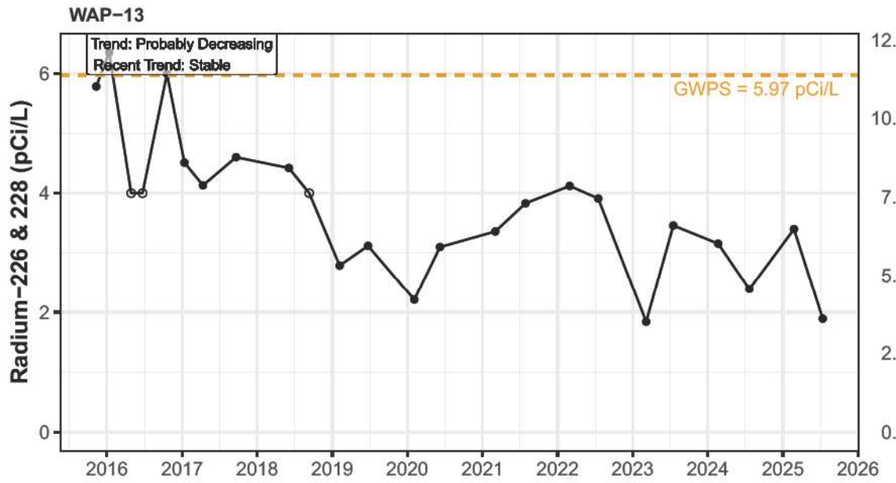
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

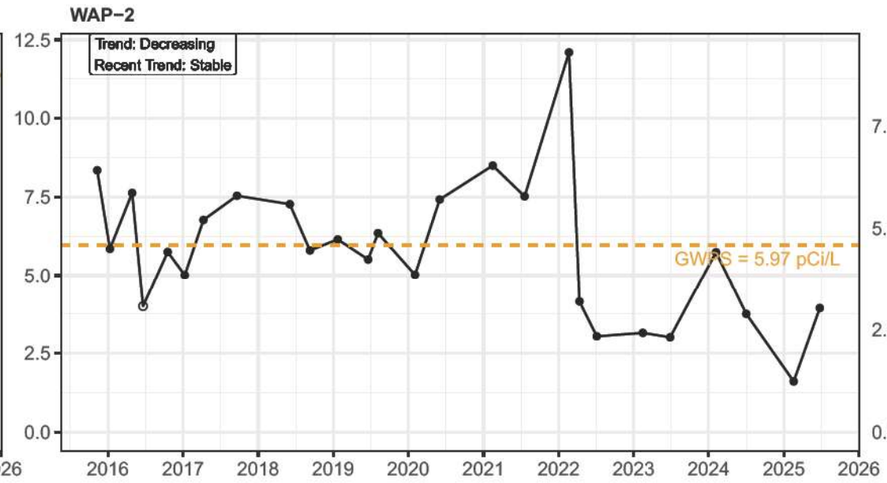
Trend Analysis Plots for Radium−226 & 228

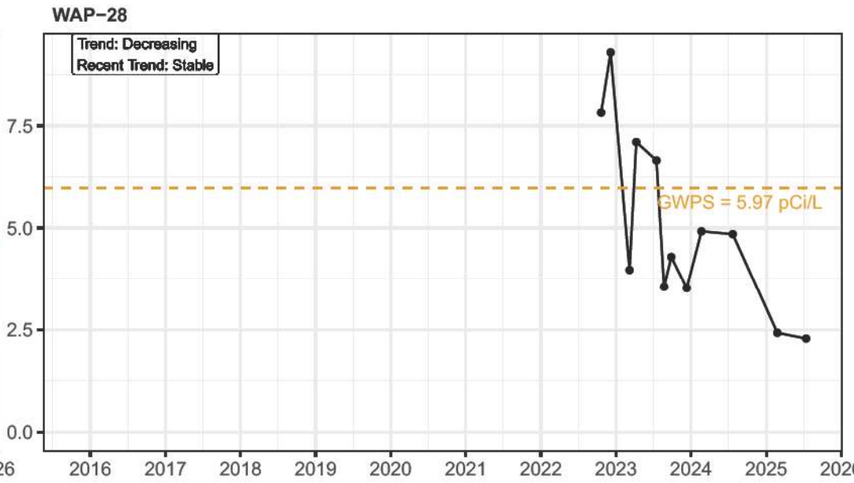


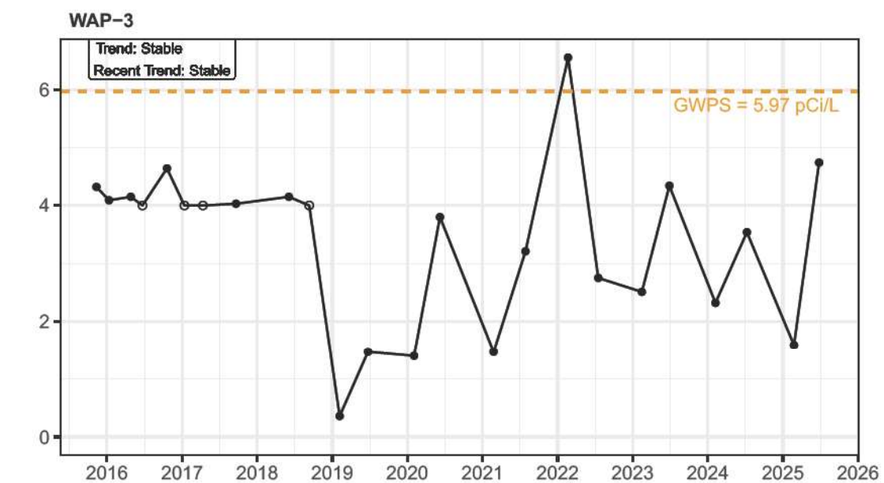


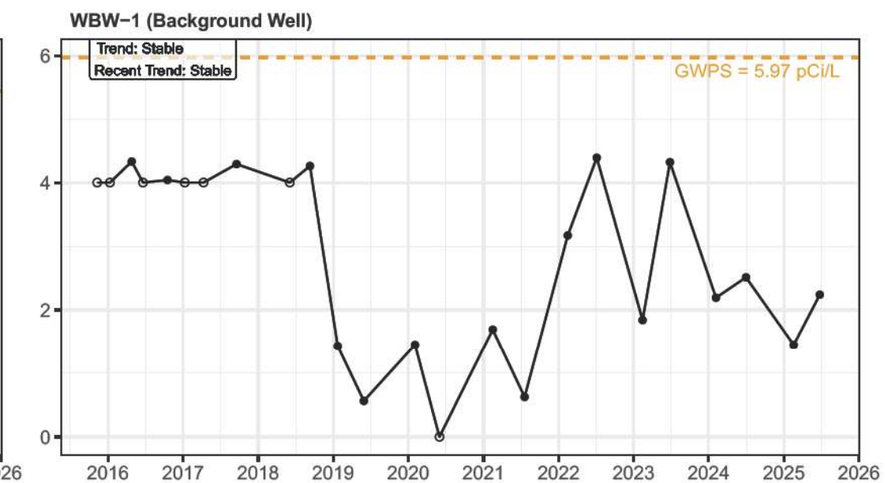












Sample Date (January 1st of the Indicated Year)

GWPS ····· LCL Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Selenium

Pooled Background

WAP−1 (Background Well)

WAP−12

WAP−13

WAP−2

WAP−28

WAP−3

WBW−1 (Background Well)

Trend: Not Evaluated
Recent Trend: Not Evaluated
GWPS = 0.05 mg/L

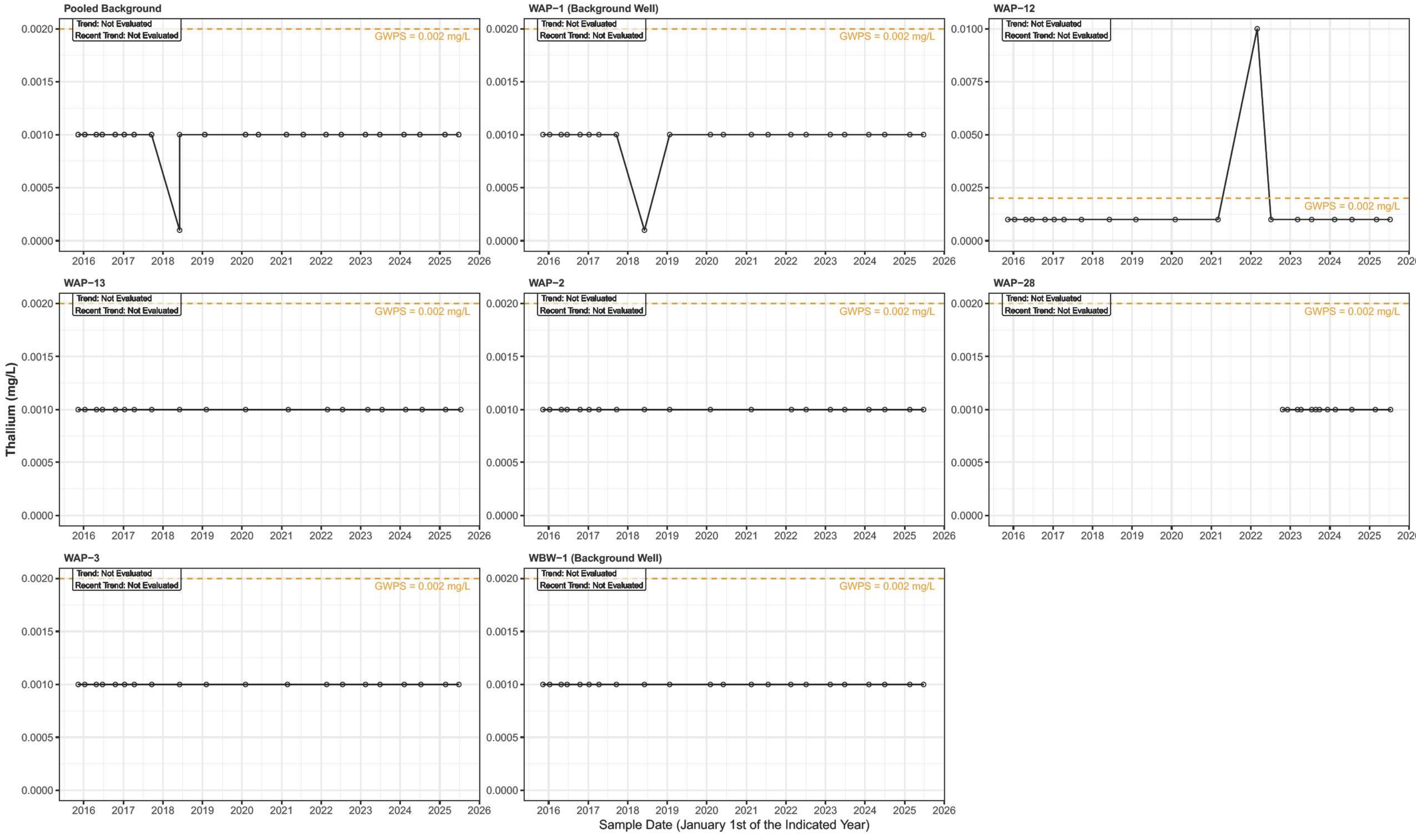
Selenium (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Thallium



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Appendix B – Laboratory Analytical Reports

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Moncks Corner, SC 29461-2901
(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25121 **Location:** GW Well WAP-1 **Date:** 02/18/2025 **Sample Collector:** MDG/DCA

Loc. Code WAP-1 **Time:** 12:29

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.56	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Barium	40.3	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Calcium	6.1	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Iron	1430	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Magnesium	0.79	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Total Dissolved Solids	62.50	mg/L	02/21/2025	GJKOCENI	SM 2540C
Chloride	8.58	mg/L	02/22/2025	GEL	EPA 300.0
Sulfate	41.4	mg/L	02/21/2025	GEL	EPA 300.0
pH	4.63	SU	02/18/2025	MDG/DCA	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Eurofins" - Eurofins. - Lab ID# 98001; "Pace"-Pace Analytical Laboratory- L ID# 99030

Qualifiers: **U**-Value below RL; **H**-Holding Time Exceeded; **J**-Value is Estimated; **M**-Matrix Interference

Analysis Validated: _____ Validation Date: 4/21/25

Linda Williams - Manager, Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25122 **Location:** GW Well WAP-2 **Date:** 02/18/2025 **Sample Collector:** MDG/DCA

Loc. Code WAP-2 **Time:** 14:09

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	1.0	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Arsenic	28.3	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Barium	92.2	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Calcium	88.8	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Iron	33000	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Magnesium	8.6	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Zinc	10.6	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Total Dissolved Solids	495.0	mg/L	02/21/2025	GJKOCENI	SM 2540C
Chloride	86.6	mg/L	02/21/2025	GEL	EPA 300.0
Sulfate	175	mg/L	02/21/2025	GEL	EPA 300.0
pH	5.83	SU	02/18/2025	MDG/DCA	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Eurofins" - Eurofins. - Lab ID# 98001; "Pace"-Pace Analytical Laboratory- L ID# 99030

Qualifiers: **U**-Value below RL; **H**-Holding Time Exceeded; **J**-Value is Estimated; **M**-Matrix Interference

Analysis Validated: _____ Validation Date: 4/21/25

Linda Williams - Manager, Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25125 **Location:** GW Well WAP-3 **Date:** 02/24/2025 **Sample Collector:** ATH/SB

Loc. Code WAP-3 **Time:** 11:15

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	172	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	238	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	12400	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Magnesium	13.2	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Total Dissolved Solids	955.0	mg/L	02/28/2025	GJKOCENI	SM 2540C
Chloride	185	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	143	mg/L	03/01/2025	GEL	EPA 300.0
pH	6.23	SU	02/24/2025	ATH/SB	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Eurofins" - Eurofins. - Lab ID# 98001; "Pace"-Pace Analytical Laboratory- L ID# 99030

Qualifiers: **U**-Value below RL; **H**-Holding Time Exceeded; **J**-Value is Estimated; **M**-Matrix Interference

Analysis Validated: _____ Validation Date: 4/21/25

Linda Williams - Manager, Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25136 **Location:** GW Well WAP-12 **Date:** 03/07/2025 **Sample Collector:** MDG/DA

Loc. Code WAP-12 **Time:** 11:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Barium	82.1	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Calcium	411	mg/L	03/24/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Cobalt	1.9	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Boron	9540	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	893	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	1030	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	2638	mg/L	03/27/2025	TDHARRIS	SM 2540C
Radium 226	2.08	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	3.71	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.79	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	4.40	SU	03/07/2025	MDG/DA	

Comments:

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

Analysis Validated: Validation date: 4/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25137 **Location:** GW Well WAP-12 **Date:** 03/07/2025 **Sample Collector:** MDG/DA

Loc. Code WAP-12 DUP **Time:** 11:30

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Barium	77.8	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Calcium	409	mg/L	03/24/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Cobalt	1.8	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Boron	8370	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	581	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	708	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	2615	mg/L	01/26/2025	SJLEVY	SM 2540C
Radium 226	1.56	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	3.81	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.37	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod

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

Analysis Validated: Validation date: 4/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25138 **Location:** GW Well WAP-13 **Date:** 02/24/2025 **Sample Collector:** ATH/SB

Loc. Code WAP-13 **Time:** 13:41

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	251	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	351	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	3990	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Lithium	14.4	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	446	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	99.2	mg/L	03/01/2025	GEL	EPA 300.0
Total Dissolved Solids	1600	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	1.83	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	1.57	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.40	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.60	SU	02/24/2025	ATH/SB	

Comments:

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

Analysis Validated: Validation date: 4/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25160 **Location:** GW Well WAP-28 **Date:** 02/24/2025 **Sample Collector:** ATH/SB

Loc. Code WAP-28 **Time:** 12:11

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	109	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	86.0	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	12.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	2440	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	0.134	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	173	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	139	mg/L	03/01/2025	GEL	EPA 300.0
Total Dissolved Solids	627.5	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	2.31	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.113	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.42	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	5.43	SU	02/24/2025	ATH/SB	

Comments:

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

Analysis Validated: Validation date: 4/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25164 **Location:** GW Well WBW-1 **Date:** 02/18/2025 **Sample Collector:** MDG/DCA

Loc. Code WBW-1 **Time:** 11:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Barium	16.1	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Calcium	1.5	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Cobalt	0.61	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Nickel	0.89	ug/L	03/04/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Boron	16.4	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/04/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	02/22/2025	GEL	EPA 300.0
Chloride	2.73	mg/L	02/22/2025	GEL	EPA 300.0
Sulfate	6.56	mg/L	02/22/2025	GEL	EPA 300.0
Total Dissolved Solids	32.50	mg/L	02/21/2025	GJKOCENI	SM 2540C
Radium 226	0.607	pCi/L	03/19/2025	GEL	EPA 903.1 Mod
Radium 228	0.847	pCi/L	03/23/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.45	pCi/L	04/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.16	SU	02/18/2025	MDG/DCA	

Comments:

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

Analysis Validated: _____ Validation date: 4/29/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36871 **Location:** GW Well WAP-1 **Date:** 06/25/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-1 **Time:** 10:46

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	36.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	6.7	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	0.94	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	5.3	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	25.5	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	8.81	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	22.6	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	55.00	mg/L	06/26/2025	JRLOTITO	SM 2540C
Radium 226	1.63	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.513	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.14	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.34	SU	06/25/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 9/9/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36872 **Location:** GW Well WAP-2 **Date:** 06/25/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-2 **Time:** 14:22

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	34.8	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	87.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	0.78	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	87.6	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	4.9	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	6.3	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	781	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	9.92	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	85.4	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	169	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	490.0	mg/L	06/26/2025	JRLOTITO	SM 2540C
Radium 226	2.55	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.39	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.94	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	5.62	SU	06/25/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 9/9/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36874 **Location:** GW Well WAP-3 **Date:** 06/26/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-3 **Time:** 14:24

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	157	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	210	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	1.6	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	5.1	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	1360	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	14.5	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	180	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	135	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	930.0	mg/L	06/27/2025	GJKOCENI	SM 2540C
Radium 226	1.53	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	3.21	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.74	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.00	SU	06/26/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 9/9/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36884 **Location:** GW Well WAP-12 **Date:** 07/10/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-12 **Time:** 13:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Barium	56.4	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Calcium	275	mg/L	07/28/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Cobalt	1.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Boron	5720	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/14/2025	RWMIMS	EPA 300.0
Chloride	425	mg/L	07/14/2025	RWMIMS	EPA 300.0
Sulfate	485	mg/L	07/14/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1645	mg/L	07/11/2025	GJKOCENI	SM 2540C
Radium 226	2.28	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	4.27	pCi/L	07/31/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	6.55	pCi/L	08/18/2025	SJLEVY	EPA 903.1 Mod
pH	4.45	SU	07/10/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 9/9/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG36885 **Location:** GW Well WAP-12 **Date:** 07/10/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-12 DUP **Time:** 13:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	64.6	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	327	mg/L	07/29/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Cobalt	1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Boron	6330	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/14/2025	RWMIMS	EPA 300.0
Chloride	493	mg/L	07/14/2025	RWMIMS	EPA 300.0
Sulfate	556	mg/L	07/14/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	2002	mg/L	07/11/2025	GJKOCENI	SM 2540C
Radium 226	1.41	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	4.06	pCi/L	07/31/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.47	pCi/L	08/18/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated: Validation date: 9/9/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36886 **Location:** GW Well WAP-13 **Date:** 07/14/2025 **Sample Collector:** ATH/EA

Loc. Code WAP-13 **Time:** 10:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	237	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	333	mg/L	07/29/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Boron	3690	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Lithium	13.7	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/15/2025	RWMIMS	EPA 300.0
Chloride	436	mg/L	07/15/2025	RWMIMS	EPA 300.0
Sulfate	49.5	mg/L	07/15/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1660	mg/L	07/16/2025	GJKOCENI	SM 2540C
Radium 226	0.639	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.25	pCi/L	07/31/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.89	pCi/L	08/18/2025	SJLEVY	EPA 903.1 Mod
pH	6.48	SU	07/14/2025	ATH/EA	

Comments:

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

Analysis Validated: _____ Validation date: 9/9/25

Linda Williams - Manager Analytical Services

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santee cooper

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(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36907 **Location:** GW Well WAP-28 **Date:** 07/14/2025 **Sample Collector:** ATH/EA

Loc. Code WAP-28 **Time:** 11:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	86.7	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	53.4	mg/L	07/29/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Cobalt	8.1	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Boron	2590	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	0.12	mg/L	07/15/2025	RWMIMS	EPA 300.0
Chloride	109	mg/L	07/15/2025	RWMIMS	EPA 300.0
Sulfate	154	mg/L	07/18/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	467.5	mg/L	07/16/2025	GJKOCENI	SM 2540C
Radium 226	1.14	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.14	pCi/L	07/31/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.28	pCi/L	08/18/2025	SJLEVY	EPA 903.1 Mod
pH	5.24	SU	07/14/2025	ATH/EA	

Comments:

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

Analysis Validated: Validation date: 9/9/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36911 **Location:** GW Well WBW-1 **Date:** 06/25/2025 **Sample Collector:** AGP/EA

Loc. Code WBW-1 **Time:** 09:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	22.2	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	1.4	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	22.8	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	2.40	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	6.11	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	30.00	mg/L	06/26/2025	JRLOTITO	SM 2540C
Radium 226	0.248	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.99	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.24	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	3.78	SU	06/25/2025	AGP/EA	

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

Analysis Validated: Validation date: 9/9/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

VSJL

Winyah

NPDES/
CCR/LF

(WAP-1 & 7
and
WBW-1)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type Grab/Comp	Sample Type Matrix	Number of Containers	Preservative	Bottle Type (Glass/Plastic)	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	Ra 226, Ra 228	F, Cl, SO4	TDS	Al, Cu, Fe, Mg, Ni, Zn
										Fill in the Number of Containers for each Test					
AG25164	WBW-1	2/18/25	1118	MDA DCA	G	GW	7	1	P	1	1	2	1	1	1
AG25121	WAP-1	↓	1229	↓	G	GW	7	1	P	1	1	2	1	1	1

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
2.1	SJL

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
2/19/25 @ 0920 SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816/1107801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	36887	2/19/25	0715	SLwy	35594	2/19/25	0715
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Winyah
NPDES/CCR
(WAP- 2, 2R, 3, 4, 9, & 10 Duplicate WAP-10 and field blanks for WAP-2 and WAP-19)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.08.G01.3 / 36500

Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Grab/Comp	Matrix	Number of Containers	Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Pb, Sb, Se, Tl, Zn	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	Comments
								Sample Analysis Requested (Method)					
								Preservative	1,	1	1	1	1,2
								Bottle Type (Glass/Plastic)	P	P	P	P	P
					Sample Type			Fill in the Number of Containers for each Test					
AG25122	WAP-2	2/19/25	1409	MDG DCH	G	GW	7	2	1	1	1	2	* Only 1 Rad bottle
AG25123	WAP-2F	"	1345	"	"	"	7	2	1	1	1	1	1.2
AG25124	WAP 2R	"	1540	"	"	"	7	2	1	1	1	2	

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
2.1	SJL

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO_3)
2/19/25 @ 0920 SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify) Bottle Type: (G) Glass (P) Plastic Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816 / 1107801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	36887	2/19/25	0715	Shevy	35594	2/19/25	0715
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Winyah
NPDES/CCR
(WAP- 2, 2R, 3, 4, 9, & 10 Duplicate WAP-10 and field blanks for WAP-2 and WAP-19)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.08.G01.3 / 36500

Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	Sample Analysis Requested (Method): Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Pb, Sb, Se, Tl, Zn	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
Preservative								1	1	1	1	1,2
Bottle Type (Glass/Plastic)								P	P	P	P	P
AG25125	WAP 3	2/24/25	1115	ATH/SB	G	GW	7	2	1	1	1	2

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only	
TEMP (°C)	INIT
1.5	SJL

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
2/25/25 e1341 SJL

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: (Yes) No If preserved, Lot# 235816 / 1107801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Melanie Goings	32427	2/25/25	0800	Shery	35594	2/25/25	0808
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Winyah CCR

(WAP- 12, 13, 14, 15, 16, 20, 21 , 27, 28, 28R & 29 (Duplicates WAP-12 & 14)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Sample Type Grab/Comp	Sample Type Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	
	Preservative							1	1	1	1	1,2	
	Bottle Type (Glass/Plastic)							P	P	P	P	P	
	Fill in the Number of Containers for each Test												
AG25136	WAP-12	3/7/25	1125	MD/DA	G	GW	7	2	1	1	1	2	
AG25137	WAP-12 Dup	"	1130	"	"	"	7	2	1	1	1	2	
AG25152	WAP-21	3/6/25	1304	"	"	"	2					2	
AG27580	WAP-21	3/7/25	0918	"	"	"	5	2	1	1	1		

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.8	

Comments

* Edited date/time LW added only
sample not homogenous for RAD bottles this location only
* WAP-21 went dry on 3/6/25 before we could collect all the bottles; finished remainder the next day (3/7/25)

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 3/11/25

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH: RAD (Yes) No	If preserved, Lot# 235816/1107801J	Date/Time/Int	GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	5927	3/10/25	0743	[signature]	35466	3/10/25	0743
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Winyah CCR

Chain of Custody

(WAP- 12, 13, 14, 15, 16, 20, 21 , 27, 28, 28R & 29 (Duplicates WAP-12 & 14)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	
Preservative								1	1	1	1	1,2	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
AG25160	WAP 28	2/24/25	1211	ATH/SB	G	GW	7	2	1	1	1	2	
AG25161	WAP 28R	2/24/25	1249	ATH/SB	G	GW	7	2	1	1	1	2	
AG25138	WAP 13	2/24/25	1341	ATH/SB	G	GW	7	2	1	1	1	2	

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.5	SJL

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
2/25/25 @ 1341 SJL

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816/1107801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Melanie Goings	32927	2/25/25	0800	Sleary	35594	2/25/25	0808
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Chain of Custody

CCR

(WAP- 12, 13, 14, 15, 16, 20, 21 , 27, 28, 28R & 29 (Duplicates WAP-12 & 14)

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) : _____

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Grab/Comp	Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	Comments
Preservative								1	1	1	1	½	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
AG36884	WAP-12	7/10/25	1339	AGP/EA	G	GW	7	2	1	1	1	2	
AG36885	WAP-12 Dup	7/10/25	1344	AGP/EA	G	GW	7	2	1	1	1	2	

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.6	TH

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 7/11/25 @ 0911

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record	Correct pH: (Yes) No	If preserved, Lot# 220325000 / 4610944	Date/Time/Int GEL 5/28/25				
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	38361	7/11/25	846		36851	7/11/25	0846
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Winyah NPDES/CCR
(WAP- 2, 2R, 3, 4, 9, & 10 Duplicate WAP-10 and field blank for WAP-2)

Customer/Send Report To: Melanie Goings/A203
Need Results By (Date Needed): 3 Weeks
Project/Task/Unit # 125915 JM02.08.G01.3 / 36500
Contract Lab Due Date (Lab Only) : _____

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	Sample Analysis Requested (Method): Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Pb, Sb, Se, Tl, Zn	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
	Preservative							1	1	1	1	1/2
	Bottle Type (Glass/Plastic)							P	P	P	P	P
	Fill in the Number of Containers for each Test											
AG36872	WAP-2	6/25/25	1422	ACP/EA	G	GW	7	2	1	1	1	2
AG36928	WAP-2F	6/25/25	1427	ACP/EA	G	GW	7	2	1	1	1	2
AG36873	WAP-2R	6/25/25	1511	ACP/EA	G	GW	7	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.4	TH

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 6/26/25 e 0753 TH

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)
Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)
Bottle Type: (G) Glass (P) Plastic
Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record Correct pH: (Yes) No
If preserved, Lot# 220325000 / 4610944 Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38361	6/26/25	743	[signature]	36451	6/26/25	0743
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Winyah
NPDES/CCR.
(WAP- 2, 2R, 3, 4, 9, & 10 Duplicate WAP-10 and field blank for WAP-2)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.08.G01.3 / 36500

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Grab/Comp	Matrix	Number of Containers	Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Pb, Sb, Se, Tl, Zn	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
	Preservative							1	1	1	1	1/2
	Bottle Type (Glass/Plastic)							P	P	P	P	P
	Sample Type				Grab/Comp	Matrix	Number of Containers	Fill in the Number of Containers for each Test				
AG36881	WAP-10	6/26/25	1058	AGP/EA	G	GW	7	2	1	1	1	2
AG36882	WAP-10 Dup	6/26/25	1103	AGP/EA	G	GW	7	2	1	1	1	2
AG36880	WAP-9	6/26/25	1311	AGP/EA	G	GW	7	2	1	1	1	2
AG36874	WAP-3	6/26/25	1424	AGP/EA	G	GW	7	2	1	1	1	2
AG36875	WAP-4	6/26/25	1533	AGP/EA	G	GW	7	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
2.3	TH

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 6/27/25 @ 0900

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples: JRL

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: (Yes) No

If preserved, Lot# 220325000 / 4G10944 Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Walton Rush	38361	6/27/25	824	[signature]	36851	6/27/25	0827
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Winyah CCR

santee cooper

Chain of Custody

(WAP- 12, 13, 14, 15, 16, 20, 21 , 27, 28, 28R & 29 (Duplicates WAP-12 & 14)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) : _____

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type Grab/Comp	Sample Type Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
Preservative								1	1	1	1	1, 2
Bottle Type (Glass/Plastic)								P	P	P	P	P
AG36886	WAP - 13	7/14/25	1018	ATH EA	G	GW	7	2	1	1	1	2
AG36907	WAP - 28	7/14/25	1134	ATH/EA	G	GW	7	2	1	1	1	2
AG36908	WAP-28R	7/14/25	1231	ATH/EA	G	GW	7	2	1	1	1	2

Fill in the Number of Containers for each Test

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Temperature Checks: Internal Use Only	
TEMP (°C)	INIT
4.1	SJL

Comments

- EDITED DATE + TIMES
- ADDED ANALYSES; SJL

Spectrum Lot # 1124081
Batch # 20250213-01
Nitric Acid (HNO3)
7/15/25 e0825 SJL

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: (Yes) No If preserved, Lot# 220325000/4G10944 Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	36887	7/15/25	0715	S Levy	35594	7/15/25	0715
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Winyah
NPDES/
CCR/LF
(WAP-1 & 7 and WBW-1)

Customer/Send Report To: Melanie Goings/A203
Need Results By (Date Needed): 3 Weeks
Project/Task/Unit # 125915 JM02.09.G01.1 / 36500
Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type Grab/Comp	Sample Type Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	Ra 226, Ra 228	F, Cl, SO4	TDS	Al, Cu, Fe, Mg, Ni, Zn
Preservative								1	1	V/2	1	1	1
Bottle Type (Glass/Plastic)								P	P	P	P	P	P
AG36911	WBW-1	6/25/25	947	AGP/EA	G	GW	7	1	1	2	1	1	1
AG36871	WAP-1	6/25/25	1046	AGP/EA	G	GW	7	1	1	2	1	1	1
AG36878	WAP-7	6/25/25	1215	AGP/EA	G	GW	7	1	1	2	1	1	1

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only	
TEMP (°C)	INIT
0.4	TH

EDITED DATE TIMES
ADDED PARAMETERS SJL

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/26/25 @ 0753 TH

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)
Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)
Bottle Type: (G) Glass (P) Plastic
Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record Correct pH: (Yes) No If preserved, Lot# 220325000/4G10944 Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	38361	6/26/25	742		36851	6/26/25	0742
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:
TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2025 4:36:01 PM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

680-262767-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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3/24/2025 4:36:01 PM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 680-262767-1 — Eurofins Savannah

Job Narrative
680-262767-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/13/2025 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.1°C.

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

Sample Summary

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

Job ID: 680-262767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262767-1	AG25159	Water	03/06/25 10:43	03/13/25 09:30
680-262767-2	AG25160	Water	02/24/25 12:11	03/13/25 09:30
680-262767-3	AG25161	Water	02/24/25 12:49	03/13/25 09:30
680-262767-4	AG25138	Water	02/24/25 13:41	03/13/25 09:30
680-262767-5	AG25129	Water	02/25/25 11:42	03/13/25 09:30
680-262767-6	AG25153	Water	02/27/25 12:19	03/13/25 09:30

Method Summary

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

Job ID: 680-262767-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

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

Job ID: 680-262767-1

Client Sample ID: AG25159 — Lab Sample ID: 680-262767-1

No Detections.

Client Sample ID: AG25160 — Lab Sample ID: 680-262767-2

No Detections.

Client Sample ID: AG25161 — Lab Sample ID: 680-262767-3

No Detections.

Client Sample ID: AG25138 — Lab Sample ID: 680-262767-4

No Detections.

Client Sample ID: AG25129 — Lab Sample ID: 680-262767-5

No Detections.

Client Sample ID: AG25153 — Lab Sample ID: 680-262767-6

No Detections.

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: 680-262767-1

Client Sample ID: AG25159
Date Collected: 03/06/25 10:43
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-1
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:09	1

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

Job ID: 680-262767-1

Client Sample ID: AG25160
Date Collected: 02/24/25 12:11
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-2
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:59	1

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

Job ID: 680-262767-1

Client Sample ID: AG25161
Date Collected: 02/24/25 12:49
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-3
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:11	1

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

Job ID: 680-262767-1

Client Sample ID: AG25138
Date Collected: 02/24/25 13:41
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-4
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:14	1

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

Job ID: 680-262767-1

Client Sample ID: AG25129
Date Collected: 02/25/25 11:42
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-5
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:02	1

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

Job ID: 680-262767-1

Client Sample ID: AG25153
Date Collected: 02/27/25 12:19
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-6
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:42	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-879235/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 17:55	1

Lab Sample ID: LCS 680-879235/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.221		ug/L		89	80 - 120

Lab Sample ID: 680-262836-B-18-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.7904	F1	ug/L		79	80 - 120

Lab Sample ID: 680-262836-B-18-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U F1	1.00	0.8794		ug/L		88	80 - 120	11	20

Lab Sample ID: MB 680-879270/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:12	1

Lab Sample ID: LCS 680-879270/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.340		ug/L		94	80 - 120

Lab Sample ID: 680-262836-A-21-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.8804		ug/L		88	80 - 120

Lab Sample ID: 680-262836-A-21-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.8839		ug/L		88	80 - 120	0	20

Metals

Prep Batch: 879235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262767-6	AG25153	Total/NA	Water	7470A	
MB 680-879235/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879235/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-B-18-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-B-18-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 879270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262767-1	AG25159	Total/NA	Water	7470A	
680-262767-2	AG25160	Total/NA	Water	7470A	
680-262767-3	AG25161	Total/NA	Water	7470A	
680-262767-4	AG25138	Total/NA	Water	7470A	
680-262767-5	AG25129	Total/NA	Water	7470A	
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 879304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262767-1	AG25159	Total/NA	Water	7470A	879270
680-262767-2	AG25160	Total/NA	Water	7470A	879270
680-262767-3	AG25161	Total/NA	Water	7470A	879270
680-262767-4	AG25138	Total/NA	Water	7470A	879270
680-262767-5	AG25129	Total/NA	Water	7470A	879270
680-262767-6	AG25153	Total/NA	Water	7470A	879235
MB 680-879235/1-A	Method Blank	Total/NA	Water	7470A	879235
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	879270
LCS 680-879235/2-A	Lab Control Sample	Total/NA	Water	7470A	879235
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	879270
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	879270
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879270
680-262836-B-18-C MS	Matrix Spike	Total/NA	Water	7470A	879235
680-262836-B-18-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879235

Lab Chronicle

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

Job ID: 680-262767-1

Client Sample ID: AG25159
Date Collected: 03/06/25 10:43
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:09

Client Sample ID: AG25160
Date Collected: 02/24/25 12:11
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:59

Client Sample ID: AG25161
Date Collected: 02/24/25 12:49
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:11

Client Sample ID: AG25138
Date Collected: 02/24/25 13:41
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:14

Client Sample ID: AG25129
Date Collected: 02/25/25 11:42
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:02

Client Sample ID: AG25153
Date Collected: 02/27/25 12:19
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262767-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:42

Laboratory References:
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 3 / 21 / 25 Send report to lcwillis@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

COOLER 1

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.07.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG25159	WAP-27	3/6/25	1043	MDG DA	1	P	G	GW	2	7471 RL <0.2 ug/L	X
60	WAP-28	2/24/25	1211	ATH SB							
61	WAP-28R		1249								
38	WAP-13		1341								
AG25129	WAP-7	2/25/25	1142	MDG SB							
AG25153	WAP-22	2/27/25	1219	ATH SB							

680-262767 Chain of Custody

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
PO4	Wallboard	Short Prox.	Ammonia	Trans. Oil Quality	BTEX	Ag Al As B
NH3-N	ASM	% Moisture	LOI	%Moisture	Naphthalene	Ba Be Ca Cd
F	TOC	Ash	% Carbon	Color	VOA/Semi	Co Cr Cu Fe
NO2	Total metals	Sulfur	Mineral Analysis	Acidity	Oil & Grease	K Li Mg Mn
Br	Soluble Metals	BTUs	Sieve	Dielectric Strength	E. Coli	Mo Na Ni Pb
NO3	Purity (CaSO4)	Ultimate	% Moisture	IFT	Total Coliform	Sb Se Sn Sr
SO4	% Moisture	Volatile Matter		Dissolved Gases	pH	Ti Tl V Zn
	Sulfites	CHN	NPDES		Dissolved As	Hg CrVI XRF scan
	pH	HGI	Oil & Grease	Used Oil	Dissolved Fe	RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
	Chlorides	Other Analysis:	As	Flashpoint	Rad 226	
	Particle Size	Fineness	TSS	Metals (As, Cd, Cr, Ni, Pb, Hg)	Rad 228	
	Sulfur	Particulate Matter			PCB	
	USDA			GOFER		

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
SLevy	35594	FED-EX	—	3/12/25	1030
		C.Mims		3/13/25	0930

Sample Receiving (Internal Use Only)
TEMP (°C): _____
Initials: _____
Correct pH: Yes No
Preservative Lot #: 18-1 / 18-1
Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-262767-1

Login Number: 262767
List Number: 1
Creator: Munro, Caroline

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-262767-1
Project/Site: 125915/JM02.09.G01.1/36500

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/1/2025 4:22:28 PM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

705-37622-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 705-37622-1 — Eurofins Atlanta

Job Narrative
705-37622-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 7/23/2025 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

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

Detection Summary

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

Job ID: 705-37622-1

Client Sample ID: AG36886 — Lab Sample ID: 705-37622-1

No Detections.

Client Sample ID: AG36907 — Lab Sample ID: 705-37622-2

No Detections.

Client Sample ID: AG36908 — Lab Sample ID: 705-37622-3

No Detections.

Client Sample ID: AG36894 — Lab Sample ID: 705-37622-4

No Detections.

Client Sample ID: AG36895 — Lab Sample ID: 705-37622-5

No Detections.

Client Sample ID: AG36884 — Lab Sample ID: 705-37622-6

No Detections.

Client Sample ID: AG36885 — Lab Sample ID: 705-37622-7

No Detections.

Client Sample ID: AG36903 — Lab Sample ID: 705-37622-8

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

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

Job ID: 705-37622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-37622-1	AG36886	Water	07/14/25 10:18	07/23/25 09:45
705-37622-2	AG36907	Water	07/14/25 11:34	07/23/25 09:45
705-37622-3	AG36908	Water	07/14/25 12:31	07/23/25 09:45
705-37622-4	AG36894	Water	07/14/25 13:48	07/23/25 09:45
705-37622-5	AG36895	Water	07/14/25 13:53	07/23/25 09:45
705-37622-6	AG36884	Water	07/10/25 13:39	07/23/25 09:45
705-37622-7	AG36885	Water	07/10/25 13:44	07/23/25 09:45
705-37622-8	AG36903	Water	07/10/25 10:13	07/23/25 09:45

Method Summary

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

Job ID: 705-37622-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Definitions/Glossary

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

Job ID: 705-37622-1

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Job ID: 705-37622-1

Client Sample ID: AG36886
Date Collected: 07/14/25 10:18
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-1
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:13	1

Client Sample ID: AG36907
Date Collected: 07/14/25 11:34
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-2
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:17	1

Client Sample ID: AG36908
Date Collected: 07/14/25 12:31
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-3
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:21	1

Client Sample ID: AG36894
Date Collected: 07/14/25 13:48
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-4
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:24	1

Client Sample ID: AG36895
Date Collected: 07/14/25 13:53
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-5
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:28	1

Client Sample ID: AG36884
Date Collected: 07/10/25 13:39
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-6
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:44	1

Client Sample ID: AG36885
Date Collected: 07/10/25 13:44
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-7
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:48	1

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

Job ID: 705-37622-1

Client Sample ID: AG36903
Date Collected: 07/10/25 10:13
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-8
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:52	1

Metals

Prep Batch: 71691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-37622-1	AG36886	Total/NA	Water	7470A	
705-37622-2	AG36907	Total/NA	Water	7470A	
705-37622-3	AG36908	Total/NA	Water	7470A	
705-37622-4	AG36894	Total/NA	Water	7470A	
705-37622-5	AG36895	Total/NA	Water	7470A	
705-37622-6	AG36884	Total/NA	Water	7470A	
705-37622-7	AG36885	Total/NA	Water	7470A	
705-37622-8	AG36903	Total/NA	Water	7470A	
MB 705-71691/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-71691/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-37577-F-7-D MS	Matrix Spike	Total/NA	Water	7470A	
705-37577-F-7-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 71787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-37622-1	AG36886	Total/NA	Water	7470A	71691
705-37622-2	AG36907	Total/NA	Water	7470A	71691
705-37622-3	AG36908	Total/NA	Water	7470A	71691
705-37622-4	AG36894	Total/NA	Water	7470A	71691
705-37622-5	AG36895	Total/NA	Water	7470A	71691
705-37622-6	AG36884	Total/NA	Water	7470A	71691
705-37622-7	AG36885	Total/NA	Water	7470A	71691
705-37622-8	AG36903	Total/NA	Water	7470A	71691
MB 705-71691/1-A	Method Blank	Total/NA	Water	7470A	71691
LCS 705-71691/2-A	Lab Control Sample	Total/NA	Water	7470A	71691
705-37577-F-7-D MS	Matrix Spike	Total/NA	Water	7470A	71691
705-37577-F-7-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	71691

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-71691/1-A
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 17:53	1

Lab Sample ID: LCS 705-71691/2-A
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71691

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00400	0.003784		mg/L		95	80 - 120		

Lab Sample ID: 705-37577-F-7-D MS
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.000200	U	0.00400	0.004110		mg/L		103	75 - 125		

Lab Sample ID: 705-37577-F-7-E MSD
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.003989		mg/L		100	75 - 125	3	20

Lab Chronicle

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

Job ID: 705-37622-1

Client Sample ID: AG36886
Date Collected: 07/14/25 10:18
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:13

Client Sample ID: AG36907
Date Collected: 07/14/25 11:34
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:17

Client Sample ID: AG36908
Date Collected: 07/14/25 12:31
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:21

Client Sample ID: AG36894
Date Collected: 07/14/25 13:48
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:24

Client Sample ID: AG36895
Date Collected: 07/14/25 13:53
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:28

Client Sample ID: AG36884
Date Collected: 07/10/25 13:39
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:44

Lab Chronicle

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

Job ID: 705-37622-1

Client Sample ID: AG36885

Date Collected: 07/10/25 13:44
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:48

Client Sample ID: AG36903

Date Collected: 07/10/25 10:13
Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:52

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Contract Lab Info: EUROFINS-ATL Contract Lab Due Date (Lab Only): 7 / 31 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

HG

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged C Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG36886	WAP-13	7/14/25	1018	ATH EA	1	P	G	GW	2	7470 RL 0.2 ug/L	X
AG36907	WAP-28	"	1134	"	"	"	"	"	"		
AG36908	WAP-28R	"	1231	"	"	"	"	"	"		
AG36894	WAP-17	"	1348	"	"	"	"	"	"		
AG36895	WAP-17 DUP	"	1353	"	"	"	"	"	"		
AG36884	WAP-12	7/10/25	1339	AGP EA	"	"	"	"	"		
AG36885	WAP-12 DUP	"	1344	"	"	"	"	"	"		
AG36903	WAP-25	"	1013	"	"	"	"	"	"		

705-37622 COC

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC ☐ DOC ☐ TP/TPO4 ☐ NH3-N ☐ F ☐ Cl ☐ NO2 ☐ Br ☐ NO3 ☐ SO4	☐ Wallboard ☐ AIM ☐ TOC ☐ Total metals ☐ Soluble Metals ☐ Purity (CaSO4) ☐ % Moisture ☐ Sulfites ☐ pH ☐ Chlorides ☐ Particle Size ☐ Sulfur ☐ USDA	☐ Short Prox. ☐ % Moisture ☐ Ash ☐ Sulfur ☐ BTUs Ultimate ☐ Volatile Matter ☐ CHN ☐ HGI Other Analysis: ☐ Fineness ☐ Particulate Matter	☐ Ammonia ☐ LOI ☐ % Carbon ☐ Mineral Analysis ☐ Sieve ☐ % Moisture NPDES ☐ Oil & Grease ☐ As ☐ TSS	Trans. Oil Quality ☐ %Moisture ☐ Color ☐ Acidity ☐ Dielectric Strength ☐ IFT ☐ Dissolved Gases ☐ Used Oil ☐ Flashpoint ☐ Metals (As, Cd, Cr, Ni, Pb, Hg) ☐ GOFER	☐ BTEX ☐ Naphthalene ☐ VOA/Semi ☐ Oil & Grease ☐ E. Coli ☐ Total Coliform ☐ pH ☐ Dissolved As ☐ Dissolved Fe ☐ Rad 226 ☐ Rad 228 ☐ PCB	☐ Ag ☐ Al ☐ As ☐ B ☐ Ba ☐ Be ☐ Ca ☐ Cd ☐ Co ☐ Cr ☐ Cu ☐ Fe ☐ K ☐ Li ☐ Mg ☐ Mn ☐ Mo ☐ Na ☐ Ni ☐ Pb ☐ Sb ☐ Se ☐ Sn ☐ Sr ☐ Ti ☐ Tl ☐ V ☐ Zn ☐ Hg ☐ CrVI ☐ XRF scan ☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	FED-EX	—	7/22/25	0830
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		VM		7/23/25	0945
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-37622-1

Login Number: 37622
List Number: 1
Creator: Myndresku, Victor

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-37622-1
Project/Site: 125915/JM02.09.G01.1/36500

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-26
South Carolina	State	98016	06-30-26

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/14/2025 11:24:08 AM

JOB DESCRIPTION

Santee Cooper

JOB NUMBER

705-35290-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
7/14/2025 11:24:08 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 705-35290-1 — Eurofins Atlanta

Job Narrative
705-35290-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/1/2025 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-24 **Lab Sample ID: 705-35290-1**

No Detections.

Client Sample ID: WAP-2 **Lab Sample ID: 705-35290-2**

No Detections.

Client Sample ID: WAP-2F **Lab Sample ID: 705-35290-3**

No Detections.

Client Sample ID: WAP-2R **Lab Sample ID: 705-35290-4**

No Detections.

Client Sample ID: WBW-1 **Lab Sample ID: 705-35290-5**

No Detections.

Client Sample ID: WAP-1 **Lab Sample ID: 705-35290-6**

No Detections.

Client Sample ID: WAP-7 **Lab Sample ID: 705-35290-7**

No Detections.

Client Sample ID: WLF-AI-2 **Lab Sample ID: 705-35290-8**

No Detections.

Client Sample ID: WLF-AI-2F **Lab Sample ID: 705-35290-9**

No Detections.

Client Sample ID: WLF-AI-1 **Lab Sample ID: 705-35290-10**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-35290-1	WAP-24	Groundwater	06/26/25 12:09	07/01/25 10:45
705-35290-2	WAP-2	Groundwater	06/25/25 14:22	07/01/25 10:45
705-35290-3	WAP-2F	Groundwater	06/25/25 14:27	07/01/25 10:45
705-35290-4	WAP-2R	Groundwater	06/25/25 15:11	07/01/25 10:45
705-35290-5	WBW-1	Groundwater	06/25/25 09:47	07/01/25 10:45
705-35290-6	WAP-1	Groundwater	06/25/25 10:46	07/01/25 10:45
705-35290-7	WAP-7	Groundwater	06/25/25 12:15	07/01/25 10:45
705-35290-8	WLF-AI-2	Groundwater	06/25/25 13:23	07/01/25 10:45
705-35290-9	WLF-AI-2F	Groundwater	06/25/25 13:28	07/01/25 10:45
705-35290-10	WLF-AI-1	Groundwater	06/23/25 15:28	07/01/25 10:45

Method Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample ID: WAP-24 — **Lab Sample ID: 705-35290-1**
Date Collected: 06/26/25 12:09 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:12	1

Client Sample ID: WAP-2 — **Lab Sample ID: 705-35290-2**
Date Collected: 06/25/25 14:22 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:16	1

Client Sample ID: WAP-2F — **Lab Sample ID: 705-35290-3**
Date Collected: 06/25/25 14:27 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:20	1

Client Sample ID: WAP-2R — **Lab Sample ID: 705-35290-4**
Date Collected: 06/25/25 15:11 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:24	1

Client Sample ID: WBW-1 — **Lab Sample ID: 705-35290-5**
Date Collected: 06/25/25 09:47 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:28	1

Client Sample ID: WAP-1 — **Lab Sample ID: 705-35290-6**
Date Collected: 06/25/25 10:46 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:44	1

Client Sample ID: WAP-7 — **Lab Sample ID: 705-35290-7**
Date Collected: 06/25/25 12:15 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:47	1

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WLF-AI-2
Date Collected: 06/25/25 13:23
Date Received: 07/01/25 10:45

Lab Sample ID: 705-35290-8
Matrix: Groundwater

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:51	1

Client Sample ID: WLF-AI-2F
Date Collected: 06/25/25 13:28
Date Received: 07/01/25 10:45

Lab Sample ID: 705-35290-9
Matrix: Groundwater

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:55	1

Client Sample ID: WLF-AI-1
Date Collected: 06/23/25 15:28
Date Received: 07/01/25 10:45

Lab Sample ID: 705-35290-10
Matrix: Groundwater

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:59	1

Metals

Prep Batch: 67298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35290-1	WAP-24	Total/NA	Groundwater	7470A	
705-35290-2	WAP-2	Total/NA	Groundwater	7470A	
705-35290-3	WAP-2F	Total/NA	Groundwater	7470A	
705-35290-4	WAP-2R	Total/NA	Groundwater	7470A	
705-35290-5	WBW-1	Total/NA	Groundwater	7470A	
705-35290-6	WAP-1	Total/NA	Groundwater	7470A	
705-35290-7	WAP-7	Total/NA	Groundwater	7470A	
705-35290-8	WLF-AI-2	Total/NA	Groundwater	7470A	
705-35290-9	WLF-AI-2F	Total/NA	Groundwater	7470A	
705-35290-10	WLF-AI-1	Total/NA	Groundwater	7470A	
MB 705-67298/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-67298/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-264973-F-4-G MS	Matrix Spike	Total/NA	Water	7470A	
680-264973-F-4-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 67310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35290-1	WAP-24	Total/NA	Groundwater	7470A	67298
705-35290-2	WAP-2	Total/NA	Groundwater	7470A	67298
705-35290-3	WAP-2F	Total/NA	Groundwater	7470A	67298
705-35290-4	WAP-2R	Total/NA	Groundwater	7470A	67298
705-35290-5	WBW-1	Total/NA	Groundwater	7470A	67298
705-35290-6	WAP-1	Total/NA	Groundwater	7470A	67298
705-35290-7	WAP-7	Total/NA	Groundwater	7470A	67298
705-35290-8	WLF-AI-2	Total/NA	Groundwater	7470A	67298
705-35290-9	WLF-AI-2F	Total/NA	Groundwater	7470A	67298
705-35290-10	WLF-AI-1	Total/NA	Groundwater	7470A	67298
MB 705-67298/1-A	Method Blank	Total/NA	Water	7470A	67298
LCS 705-67298/2-A	Lab Control Sample	Total/NA	Water	7470A	67298
680-264973-F-4-G MS	Matrix Spike	Total/NA	Water	7470A	67298
680-264973-F-4-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	67298

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-67298/1-A
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 20:26	1

Lab Sample ID: LCS 705-67298/2-A
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00400	0.004278		mg/L		107	80 - 120		

Lab Sample ID: 680-264973-F-4-G MS
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.000200	U	0.00400	0.004245		mg/L		106	75 - 125		

Lab Sample ID: 680-264973-F-4-H MSD
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.004254		mg/L		106	75 - 125	0	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-24
Lab Sample ID: 705-35290-1
Date Collected: 06/26/25 12:09
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:12

Client Sample ID: WAP-2
Lab Sample ID: 705-35290-2
Date Collected: 06/25/25 14:22
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:16

Client Sample ID: WAP-2F
Lab Sample ID: 705-35290-3
Date Collected: 06/25/25 14:27
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:20

Client Sample ID: WAP-2R
Lab Sample ID: 705-35290-4
Date Collected: 06/25/25 15:11
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:24

Client Sample ID: WBW-1
Lab Sample ID: 705-35290-5
Date Collected: 06/25/25 09:47
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:28

Client Sample ID: WAP-1
Lab Sample ID: 705-35290-6
Date Collected: 06/25/25 10:46
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:44

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-7

Lab Sample ID: 705-35290-7

Date Collected: 06/25/25 12:15
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:47

Client Sample ID: WLF-AI-2

Lab Sample ID: 705-35290-8

Date Collected: 06/25/25 13:23
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:51

Client Sample ID: WLF-AI-2F

Lab Sample ID: 705-35290-9

Date Collected: 06/25/25 13:28
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:55

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35290-10

Date Collected: 06/23/25 15:28
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:59

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Contract Lab Info. EUROFINS-ATL Contract Lab Due Date (Lab Only) 7 / 9 / 25 Send report to lcwillia@sante…m & sherri.levy@santeecooper.com

Chain of Custody

705 35290 COC

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.GP1.1 / 36500

Rerun request for any flagged O (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AG36902	WAP-24	6/26/25	1209	AGP EB	1	P	G	GW	2	7470 RL<0.2 ug/L	X			
AG36872	WAP-2	6/25/25	1422											
AG36928	WAP-2F		1427											
AG36873	WAP-2R		1511											
AG36911	WBW-1		0947											
AG36871	WAP-1		1046											
AG36878	WAP-7		1215											
AG36914	WLF-AI-2	6/25/25	1323											
AG36930	WLF-AI-2F		1328											
AG36912	WBW-AI-1	6/23/25	1528											

Nutrients
- TOC
- DOC
- TP/TKN
- NH3-N
- F
- Cl
- NO2
- Br
- NO3
- SO4

Gypsum
- Wallboard
- ASM
- TOC
- Total metals
- Soluble Metals
- Purity (CaSO4)
- % Moisture
- Sulfites
- pH
- Chlorides
- Particle Size
- Sulfur
- USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- Used Oil
- GOULD

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	FED-EX	—	6/30/25	1300
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
				07/01/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-35290-1

Login Number: 35290
List Number: 1
Creator: Taylor, Renee

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does 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 present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-35290-1
Project/Site: Santee Cooper

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-26
South Carolina	State	98016	06-30-26

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/16/2025 1:45:04 PM

JOB DESCRIPTION

Santee Cooper

JOB NUMBER

705-35289-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job Narrative
705-35289-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/1/2025 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Metals
Method 7470A: The continuing calibration blank (CCB) for analytical batch 705-67679 contained Mercury above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WAP-10 — **Lab Sample ID: 705-35289-1**

No Detections.

Client Sample ID: WAP-10 DUP — **Lab Sample ID: 705-35289-2**

No Detections.

Client Sample ID: WAP-9 — **Lab Sample ID: 705-35289-3**

No Detections.

Client Sample ID: WAP-3 — **Lab Sample ID: 705-35289-4**

No Detections.

Client Sample ID: WAP-4 — **Lab Sample ID: 705-35289-5**

No Detections.

Client Sample ID: WLF-AI-4 — **Lab Sample ID: 705-35289-6**

No Detections.

Client Sample ID: WLF-AI-4 DUP — **Lab Sample ID: 705-35289-7**

No Detections.

Client Sample ID: WLF-AI-3 — **Lab Sample ID: 705-35289-8**

No Detections.

Client Sample ID: WLF-AI-1 — **Lab Sample ID: 705-35289-9**

No Detections.

Client Sample ID: WLF-AI-5 — **Lab Sample ID: 705-35289-10**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-35289-1	WAP-10	Groundwater	06/26/25 10:58	07/01/25 10:45
705-35289-2	WAP-10 DUP	Groundwater	06/26/25 11:03	07/01/25 10:45
705-35289-3	WAP-9	Groundwater	06/26/25 13:11	07/01/25 10:45
705-35289-4	WAP-3	Groundwater	06/26/25 14:24	07/01/25 10:45
705-35289-5	WAP-4	Groundwater	06/26/25 15:33	07/01/25 10:45
705-35289-6	WLF-AI-4	Groundwater	06/24/25 09:49	07/01/25 10:45
705-35289-7	WLF-AI-4 DUP	Groundwater	06/24/25 09:54	07/01/25 10:45
705-35289-8	WLF-AI-3	Groundwater	06/24/25 11:00	07/01/25 10:45
705-35289-9	WLF-AI-1	Groundwater	06/24/25 11:59	07/01/25 10:45
705-35289-10	WLF-AI-5	Groundwater	06/24/25 13:04	07/01/25 10:45

Method Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample ID: WAP-10 — **Lab Sample ID: 705-35289-1**
Date Collected: 06/26/25 10:58 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 18:51	1

Client Sample ID: WAP-10 DUP — **Lab Sample ID: 705-35289-2**
Date Collected: 06/26/25 11:03 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 18:55	1

Client Sample ID: WAP-9 — **Lab Sample ID: 705-35289-3**
Date Collected: 06/26/25 13:11 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 18:59	1

Client Sample ID: WAP-3 — **Lab Sample ID: 705-35289-4**
Date Collected: 06/26/25 14:24 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/15/25 15:19	07/15/25 20:57	1

Client Sample ID: WAP-4 — **Lab Sample ID: 705-35289-5**
Date Collected: 06/26/25 15:33 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/15/25 15:19	07/15/25 21:01	1

Client Sample ID: WLF-AI-4 — **Lab Sample ID: 705-35289-6**
Date Collected: 06/24/25 09:49 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:11	1

Client Sample ID: WLF-AI-4 DUP — **Lab Sample ID: 705-35289-7**
Date Collected: 06/24/25 09:54 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:15	1

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WLF-AI-3 — **Lab Sample ID: 705-35289-8**
Date Collected: 06/24/25 11:00 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:19	1

Client Sample ID: WLF-AI-1 — **Lab Sample ID: 705-35289-9**
Date Collected: 06/24/25 11:59 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:23	1

Client Sample ID: WLF-AI-5 — **Lab Sample ID: 705-35289-10**
Date Collected: 06/24/25 13:04 — **Matrix: Groundwater**
Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:26	1

Metals

Prep Batch: 67612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-1	WAP-10	Total/NA	Groundwater	7470A	
705-35289-2	WAP-10 DUP	Total/NA	Groundwater	7470A	
705-35289-3	WAP-9	Total/NA	Groundwater	7470A	
705-35289-6	WLF-AI-4	Total/NA	Groundwater	7470A	
705-35289-7	WLF-AI-4 DUP	Total/NA	Groundwater	7470A	
705-35289-8	WLF-AI-3	Total/NA	Groundwater	7470A	
705-35289-9	WLF-AI-1	Total/NA	Groundwater	7470A	
705-35289-10	WLF-AI-5	Total/NA	Groundwater	7470A	
MB 705-67612/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-67612/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-36548-C-2-E MS	Matrix Spike	Total/NA	Water	7470A	
705-36548-C-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 67679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-1	WAP-10	Total/NA	Groundwater	7470A	67612
705-35289-2	WAP-10 DUP	Total/NA	Groundwater	7470A	67612
705-35289-3	WAP-9	Total/NA	Groundwater	7470A	67612
705-35289-6	WLF-AI-4	Total/NA	Groundwater	7470A	67612
705-35289-7	WLF-AI-4 DUP	Total/NA	Groundwater	7470A	67612
705-35289-8	WLF-AI-3	Total/NA	Groundwater	7470A	67612
705-35289-9	WLF-AI-1	Total/NA	Groundwater	7470A	67612
705-35289-10	WLF-AI-5	Total/NA	Groundwater	7470A	67612
MB 705-67612/1-A	Method Blank	Total/NA	Water	7470A	67612
LCS 705-67612/2-A	Lab Control Sample	Total/NA	Water	7470A	67612
705-36548-C-2-E MS	Matrix Spike	Total/NA	Water	7470A	67612
705-36548-C-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	67612

Prep Batch: 67926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-4	WAP-3	Total/NA	Groundwater	7470A	
705-35289-5	WAP-4	Total/NA	Groundwater	7470A	
MB 705-67926/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-67926/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-36058-A-4-E MS	Matrix Spike	Total/NA	Water	7470A	
705-36058-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 67976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-4	WAP-3	Total/NA	Groundwater	7470A	67926
705-35289-5	WAP-4	Total/NA	Groundwater	7470A	67926
MB 705-67926/1-A	Method Blank	Total/NA	Water	7470A	67926
LCS 705-67926/2-A	Lab Control Sample	Total/NA	Water	7470A	67926
705-36058-A-4-E MS	Matrix Spike	Total/NA	Water	7470A	67926
705-36058-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	67926

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-67612/1-A
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 17:45	1

Lab Sample ID: LCS 705-67612/2-A
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003983		mg/L		100	80 - 120

Lab Sample ID: 705-36548-C-2-E MS
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004400		mg/L		110	75 - 125

Lab Sample ID: 705-36548-C-2-F MSD
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.004065		mg/L		102	75 - 125	8	20

Lab Sample ID: MB 705-67926/1-A
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/15/25 15:19	07/15/25 18:56	1

Lab Sample ID: LCS 705-67926/2-A
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003804		mg/L		95	80 - 120

Lab Sample ID: 705-36058-A-4-E MS
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.003857		mg/L		96	75 - 125

Lab Sample ID: 705-36058-A-4-F MSD
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.003622		mg/L		91	75 - 125	6	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WAP-10
Lab Sample ID: 705-35289-1
Date Collected: 06/26/25 10:58
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 18:51

Client Sample ID: WAP-10 DUP
Lab Sample ID: 705-35289-2
Date Collected: 06/26/25 11:03
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 18:55

Client Sample ID: WAP-9
Lab Sample ID: 705-35289-3
Date Collected: 06/26/25 13:11
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 18:59

Client Sample ID: WAP-3
Lab Sample ID: 705-35289-4
Date Collected: 06/26/25 14:24
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67926	GR	EET ATL	07/15/25 15:19
Total/NA	Analysis	7470A		1	67976	GR	EET ATL	07/15/25 20:57

Client Sample ID: WAP-4
Lab Sample ID: 705-35289-5
Date Collected: 06/26/25 15:33
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67926	GR	EET ATL	07/15/25 15:19
Total/NA	Analysis	7470A		1	67976	GR	EET ATL	07/15/25 21:01

Client Sample ID: WLF-AI-4
Lab Sample ID: 705-35289-6
Date Collected: 06/24/25 09:49
Matrix: Groundwater
Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:11

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WLF-AI-4 DUP

Lab Sample ID: 705-35289-7

Date Collected: 06/24/25 09:54
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:15

Client Sample ID: WLF-AI-3

Lab Sample ID: 705-35289-8

Date Collected: 06/24/25 11:00
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:19

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35289-9

Date Collected: 06/24/25 11:59
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:23

Client Sample ID: WLF-AI-5

Lab Sample ID: 705-35289-10

Date Collected: 06/24/25 13:04
Date Received: 07/01/25 10:45

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:26

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Contract Lab Info. EUROFINS-ATL Contract Lab Due Date (Lab Only) 7 / 9 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

705 35289 COC

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.GB1.3 / 36110

Rerun request for any flagged C (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AG36881	WAP-10	6/26/25	1058	AGP EA	1	P	G	GW	2	7470 RL< 0.2 µg/L	X			
AG36882	WAP-10 DUP		1103											
AG36880	WAP-9		1311											
AG36874	WAP-3		1424											
AG36875	WAP-4		1533											
AG36916	WLF-A1-4	6/24/25	0949											
AG36917	WLF-A1-4 DUP		0954											
AG36915	WLF-A1-3		1100											
AG36913	WLF-A1-1		1159											
AG36918	WLF-A1-5		1304											

Nutrients
TOC
DOC
TP TPOH
NH3-N
F
Cl
NO2
Br
NO3
SO4

Gypsum
Wallboard
AIM
TOC
Total metals
Soluble Metals
Purity (CaSO4)
% Moisture
Sulfites
pH
Chlorides
Particle Size
Sulfur
USDA

Coal
☐ Short Prox.
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
Ultimate
☐ Volatile Matter
☐ CHN
☐ HGI
Other Analysis:
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Quality
Used Oil
GOFER

MISC.
☐ BTEX
☐ Naphthalene
☐ VOA/Semi
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

☐ Metals (All)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	Pb
Sb	Se	Sn	Sr
Ti	Tl	V	Zn
Hg	CVL	XRF scan	

RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S.Levy	35594	FED-EX	—	6/30/25	1300
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		[signature]		07/01/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-35289-1

Login Number: 35289
List Number: 1
Creator: Taylor, Renee

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does 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 present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-35289-1
Project/Site: Santee Cooper

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-26
South Carolina	State	98016	06-30-26

END OF REPORT

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/4/2025 12:24:52 PM

JOB DESCRIPTION

125915/JM02-09-G01.1/36500

JOB NUMBER

680-262192-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

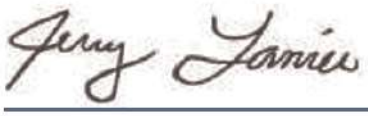
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Jerry Lanier, Project Manager I
Jerry.Lanier@et.eurofinsus.com
(912)250-0281

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Certification Summary 23

Job ID: 680-262192-1 — Eurofins Savannah

Job Narrative
680-262192-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/25/2025 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.8°C.

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

Sample Summary

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

Job ID: 680-262192-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262192-1	AG25164	GW	02/18/25 11:18	02/25/25 11:15
680-262192-2	AG25121	GW	02/18/25 12:29	02/25/25 11:15
680-262192-3	AG25122	GW	02/18/25 14:09	02/25/25 11:15
680-262192-4	AG25123	GW	02/18/25 13:45	02/25/25 11:15
680-262192-5	AG25124	GW	02/18/25 15:40	02/25/25 11:15
680-262192-6	AG25145	GW	02/19/25 09:33	02/25/25 11:15
680-262192-7	AG25144	GW	02/19/25 11:33	02/25/25 11:15
680-262192-8	AG25126	GW	02/19/25 12:30	02/25/25 11:15

Method Summary

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

Job ID: 680-262192-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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

Job ID: 680-262192-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

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

Job ID: 680-262192-1

Client Sample ID: AG25164 — **Lab Sample ID: 680-262192-1**

No Detections.

Client Sample ID: AG25121 — **Lab Sample ID: 680-262192-2**

No Detections.

Client Sample ID: AG25122 — **Lab Sample ID: 680-262192-3**

No Detections.

Client Sample ID: AG25123 — **Lab Sample ID: 680-262192-4**

No Detections.

Client Sample ID: AG25124 — **Lab Sample ID: 680-262192-5**

No Detections.

Client Sample ID: AG25145 — **Lab Sample ID: 680-262192-6**

No Detections.

Client Sample ID: AG25144 — **Lab Sample ID: 680-262192-7**

No Detections.

Client Sample ID: AG25126 — **Lab Sample ID: 680-262192-8**

No Detections.

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: 680-262192-1

Client Sample ID: AG25164
Date Collected: 02/18/25 11:18
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-1
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:20	1

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

Job ID: 680-262192-1

Client Sample ID: AG25121
Date Collected: 02/18/25 12:29
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-2
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:17	1

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

Job ID: 680-262192-1

Client Sample ID: AG25122
Date Collected: 02/18/25 14:09
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-3
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:15	1

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

Job ID: 680-262192-1

Client Sample ID: AG25123
Date Collected: 02/18/25 13:45
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-4
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:05	1

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

Job ID: 680-262192-1

Client Sample ID: AG25124
Date Collected: 02/18/25 15:40
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-5
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:12	1

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

Job ID: 680-262192-1

Client Sample ID: AG25145
Date Collected: 02/19/25 09:33
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-6
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 09:58	1

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

Job ID: 680-262192-1

Client Sample ID: AG25144
Date Collected: 02/19/25 11:33
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-7
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:24	1

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

Job ID: 680-262192-1

Client Sample ID: AG25126
Date Collected: 02/19/25 12:30
Date Received: 02/25/25 11:15

Lab Sample ID: 680-262192-8
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:22	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-877604/1-A
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 877604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 09:25	1

Lab Sample ID: LCS 680-877604/2-A
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 877604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.492		ug/L		100	80 - 120

Lab Sample ID: 680-262055-E-6-C MS
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 877604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.6501	F1	ug/L		65	80 - 120

Lab Sample ID: 680-262055-E-6-D MSD
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 877604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U F1	1.00	0.6290	F1	ug/L		63	80 - 120	3	20

Metals

Prep Batch: 877604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262192-1	AG25164	Total/NA	GW	7470A	
680-262192-2	AG25121	Total/NA	GW	7470A	
680-262192-3	AG25122	Total/NA	GW	7470A	
680-262192-4	AG25123	Total/NA	GW	7470A	
680-262192-5	AG25124	Total/NA	GW	7470A	
680-262192-6	AG25145	Total/NA	GW	7470A	
680-262192-7	AG25144	Total/NA	GW	7470A	
680-262192-8	AG25126	Total/NA	GW	7470A	
MB 680-877604/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-877604/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262055-E-6-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262055-E-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 877703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262192-1	AG25164	Total/NA	GW	7470A	877604
680-262192-2	AG25121	Total/NA	GW	7470A	877604
680-262192-3	AG25122	Total/NA	GW	7470A	877604
680-262192-4	AG25123	Total/NA	GW	7470A	877604
680-262192-5	AG25124	Total/NA	GW	7470A	877604
680-262192-6	AG25145	Total/NA	GW	7470A	877604
680-262192-7	AG25144	Total/NA	GW	7470A	877604
680-262192-8	AG25126	Total/NA	GW	7470A	877604
MB 680-877604/1-A	Method Blank	Total/NA	Water	7470A	877604
LCS 680-877604/2-A	Lab Control Sample	Total/NA	Water	7470A	877604
680-262055-E-6-C MS	Matrix Spike	Total/NA	Water	7470A	877604
680-262055-E-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	877604

Lab Chronicle

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

Job ID: 680-262192-1

Client Sample ID: AG25164

Lab Sample ID: 680-262192-1

Date Collected: 02/18/25 11:18
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:20

Client Sample ID: AG25121

Lab Sample ID: 680-262192-2

Date Collected: 02/18/25 12:29
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:17

Client Sample ID: AG25122

Lab Sample ID: 680-262192-3

Date Collected: 02/18/25 14:09
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:15

Client Sample ID: AG25123

Lab Sample ID: 680-262192-4

Date Collected: 02/18/25 13:45
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:05

Client Sample ID: AG25124

Lab Sample ID: 680-262192-5

Date Collected: 02/18/25 15:40
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:12

Client Sample ID: AG25145

Lab Sample ID: 680-262192-6

Date Collected: 02/19/25 09:33
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 09:58

Lab Chronicle

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

Job ID: 680-262192-1

Client Sample ID: AG25144

Lab Sample ID: 680-262192-7

Date Collected: 02/19/25 11:33
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:24

Client Sample ID: AG25126

Lab Sample ID: 680-262192-8

Date Collected: 02/19/25 12:30
Matrix: GW
Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:22

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 3/7/25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Loc: 680
262192

Chain of Custody

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

3/4/2025

Customer Email/Report Recipie.: LINDA.WILLIAMS@santeecooper.com
Date Results Needed by: ___/___/___
Project/Task/Unit #: 125915 / JM02.09.681.1 / 36500
Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg
AG25164	WBW-1	2/18/25	1118	MDG DCA	1	P	G	GW	2	7470 RL=0.2 ug/L	X
21	WAP-1	〃	1229	〃	〃	〃	〃	〃	〃		〃
AG25122	WAP-2	〃	1409	〃	〃	〃	〃	〃	〃		〃
23	WAP-2F	〃	1345	〃	〃	〃	〃	〃	〃		〃
24	WAP-2R	〃	1540	〃	〃	〃	〃	〃	〃		〃
AG25145	WAP-16	2/19/25	0933	ATH DCA	〃	〃	〃	〃	〃		〃
44	WAP-15	〃	1133	〃	〃	〃	〃	〃	〃		〃
AG25126	WAP-4	2/19/25	1230	〃	〃	〃	〃	〃	〃		〃

680-262192 Chain of Custody

Nutrients: TOC, DOC, TP, TPO4, [redacted]-N, F, Cl, NO2, Br, NO3, SO4

Gyp[redacted]: Wallboard, ABM, TOC, Total metals, Soluble [redacted], Purity (CaSO4), % Moisture, Sulfites, pH, [redacted], Particle [redacted], Sulfur, USDA

Coal: ☐ Short Prox. ☐ % Moisture ☐ Ash ☐ Sulfur ☐ BTUs; **Ultimate** ☐ Volatile Matter ☐ CHN ☐ HGI; Other Analysis: ☐ Fineness ☐ Particulate Matter

Flyash: ☐ Ammonia ☐ LOI ☐ % Carbon ☐ Mineral Analysis ☐ Sieve ☐ % Moisture; **NPDES** ☐ Oil & Grease ☐ As ☐ TSS

Oil: Trans. Oil [redacted], % Moisture, Color, Acidity, Dielectric Strength, IFT, Dissolved Gases; Used Oil Flashpoint, Metals (As, Cd, Cr, Ni, Pb), Neut. No.; GOFER

MISC.: ☐ BTEX ☐ Naphthalene ☐ VOA/Semi ☐ Oil & Grease ☐ E. Coli ☐ Total Coliform ☐ pH ☐ Dissolved As ☐ Dissolved Fe ☐ Rad 226 ☐ Rad 228 ☐ PCB

☐ Metals (All): [redacted] Al [redacted] B; Ba Be Ca Cd; [redacted] Cr Cu Fe; K Li Mg Mn; Mo Na Ni Pb; Sb Se Sn Sr; Tl Ti V [redacted]; [redacted] CrVI XRF scan; RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	R. Caldwell	COURIER	2/25/25	0815
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
R. Caldwell		[redacted]		2/25/25	1115
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 16.8/16.8
Initials: ___
Correct pH: Yes No
Preservative Lot #:
Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-262192-1

Login Number: 262192

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-262192-1
Project/Site: 125915/JM02-09-G01.1/36500

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2025 7:58:16 AM

JOB DESCRIPTION

125915/JM02.08.E01.3/36500

JOB NUMBER

680-262766-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
3/24/2025 7:58:16 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
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Job ID: 680-262766-1 — Eurofins Savannah

Job Narrative
680-262766-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/13/2025 9:30 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 16.4°C.

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

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262766-1	AG25178	Ground Water	03/07/25 09:50	03/13/25 09:30
680-262766-2	AG25179	Ground Water	03/07/25 09:55	03/13/25 09:30
680-262766-3	AG25180	Ground Water	03/07/25 10:25	03/13/25 09:30
680-262766-4	AG25181	Ground Water	03/07/25 10:30	03/13/25 09:30
680-262766-5	AG25125	Ground Water	02/24/25 11:15	03/13/25 09:30
680-262766-6	AG25131	Ground Water	02/25/25 15:21	03/13/25 09:30
680-262766-7	AG25132	Ground Water	02/25/25 14:56	03/13/25 09:30
680-262766-8	AG25133	Ground Water	02/25/25 13:45	03/13/25 09:30
680-262766-9	AG25134	Ground Water	02/25/25 13:50	03/13/25 09:30
680-262766-10	AG25136	Ground Water	03/07/25 11:25	03/13/25 09:30
680-262766-11	AG25137	Ground Water	03/07/25 11:30	03/13/25 09:30
680-262766-12	AG27580	Ground Water	03/07/25 09:18	03/13/25 09:30
680-262766-13	AG25156	Ground Water	03/07/25 14:41	03/13/25 09:30
680-262766-14	AG25157	Ground Water	03/07/25 13:00	03/13/25 09:30
680-262766-15	AG25158	Ground Water	03/07/25 13:05	03/13/25 09:30
680-262766-16	AG25154	Ground Water	03/06/25 09:45	03/13/25 09:30
680-262766-17	AG25155	Ground Water	03/06/25 14:39	03/13/25 09:30
680-262766-18	AG25163	Ground Water	03/06/25 11:49	03/13/25 09:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25178 — **Lab Sample ID: 680-262766-1**

No Detections.

Client Sample ID: AG25179 — **Lab Sample ID: 680-262766-2**

No Detections.

Client Sample ID: AG25180 — **Lab Sample ID: 680-262766-3**

No Detections.

Client Sample ID: AG25181 — **Lab Sample ID: 680-262766-4**

No Detections.

Client Sample ID: AG25125 — **Lab Sample ID: 680-262766-5**

No Detections.

Client Sample ID: AG25131 — **Lab Sample ID: 680-262766-6**

No Detections.

Client Sample ID: AG25132 — **Lab Sample ID: 680-262766-7**

No Detections.

Client Sample ID: AG25133 — **Lab Sample ID: 680-262766-8**

No Detections.

Client Sample ID: AG25134 — **Lab Sample ID: 680-262766-9**

No Detections.

Client Sample ID: AG25136 — **Lab Sample ID: 680-262766-10**

No Detections.

Client Sample ID: AG25137 — **Lab Sample ID: 680-262766-11**

No Detections.

Client Sample ID: AG27580 — **Lab Sample ID: 680-262766-12**

No Detections.

Client Sample ID: AG25156 — **Lab Sample ID: 680-262766-13**

No Detections.

Client Sample ID: AG25157 — **Lab Sample ID: 680-262766-14**

No Detections.

Client Sample ID: AG25158 — **Lab Sample ID: 680-262766-15**

No Detections.

Client Sample ID: AG25154 — **Lab Sample ID: 680-262766-16**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25155 — Lab Sample ID: 680-262766-17

No Detections.

Client Sample ID: AG25163 — Lab Sample ID: 680-262766-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25178
Date Collected: 03/07/25 09:50
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-1
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 20:07	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25179
Date Collected: 03/07/25 09:55
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-2
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:37	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25180
Date Collected: 03/07/25 10:25
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-3
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:56	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25181
Date Collected: 03/07/25 10:30
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-4
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 20:05	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25125
Date Collected: 02/24/25 11:15
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-5
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:34	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25131
Date Collected: 02/25/25 15:21
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-6
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 20:10	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25132
Date Collected: 02/25/25 14:56
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-7
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:48	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25133
Date Collected: 02/25/25 13:45
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-8
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:53	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25134
Date Collected: 02/25/25 13:50
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-9
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:51	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25136
Date Collected: 03/07/25 11:25
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-10
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 20:03	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25137
Date Collected: 03/07/25 11:30
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-11
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:46	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG27580
Date Collected: 03/07/25 09:18
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-12
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:25	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25156
Date Collected: 03/07/25 14:41
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-13
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:27	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25157
Date Collected: 03/07/25 13:00
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-14
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:39	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25158
Date Collected: 03/07/25 13:05
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-15
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:44	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25154
Date Collected: 03/06/25 09:45
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-16
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:41	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25155
Date Collected: 03/06/25 14:39
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-17
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:06	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25163
Date Collected: 03/06/25 11:49
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-18
Matrix: Ground Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:16	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-879267/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:06	1

Lab Sample ID: LCS 680-879267/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.452		ug/L		98	80 - 120

Lab Sample ID: 680-262754-D-3-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.9394		ug/L		94	80 - 120

Lab Sample ID: 680-262754-D-3-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.9153		ug/L		92	80 - 120	3	20

Lab Sample ID: MB 680-879270/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:12	1

Lab Sample ID: LCS 680-879270/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.340		ug/L		94	80 - 120

Lab Sample ID: 680-262836-A-21-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.8804		ug/L		88	80 - 120

Lab Sample ID: 680-262836-A-21-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.8839		ug/L		88	80 - 120	0	20

Metals

Prep Batch: 879267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262766-1	AG25178	Total/NA	Ground Water	7470A	
680-262766-2	AG25179	Total/NA	Ground Water	7470A	
680-262766-3	AG25180	Total/NA	Ground Water	7470A	
680-262766-4	AG25181	Total/NA	Ground Water	7470A	
680-262766-5	AG25125	Total/NA	Ground Water	7470A	
680-262766-6	AG25131	Total/NA	Ground Water	7470A	
680-262766-7	AG25132	Total/NA	Ground Water	7470A	
680-262766-8	AG25133	Total/NA	Ground Water	7470A	
680-262766-9	AG25134	Total/NA	Ground Water	7470A	
680-262766-10	AG25136	Total/NA	Ground Water	7470A	
680-262766-11	AG25137	Total/NA	Ground Water	7470A	
680-262766-12	AG27580	Total/NA	Ground Water	7470A	
680-262766-13	AG25156	Total/NA	Ground Water	7470A	
680-262766-14	AG25157	Total/NA	Ground Water	7470A	
680-262766-15	AG25158	Total/NA	Ground Water	7470A	
680-262766-16	AG25154	Total/NA	Ground Water	7470A	
MB 680-879267/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879267/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262754-D-3-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262754-D-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 879270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262766-17	AG25155	Total/NA	Ground Water	7470A	
680-262766-18	AG25163	Total/NA	Ground Water	7470A	
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 879304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262766-1	AG25178	Total/NA	Ground Water	7470A	879267
680-262766-2	AG25179	Total/NA	Ground Water	7470A	879267
680-262766-3	AG25180	Total/NA	Ground Water	7470A	879267
680-262766-4	AG25181	Total/NA	Ground Water	7470A	879267
680-262766-5	AG25125	Total/NA	Ground Water	7470A	879267
680-262766-6	AG25131	Total/NA	Ground Water	7470A	879267
680-262766-7	AG25132	Total/NA	Ground Water	7470A	879267
680-262766-8	AG25133	Total/NA	Ground Water	7470A	879267
680-262766-9	AG25134	Total/NA	Ground Water	7470A	879267
680-262766-10	AG25136	Total/NA	Ground Water	7470A	879267
680-262766-11	AG25137	Total/NA	Ground Water	7470A	879267
680-262766-12	AG27580	Total/NA	Ground Water	7470A	879267
680-262766-13	AG25156	Total/NA	Ground Water	7470A	879267
680-262766-14	AG25157	Total/NA	Ground Water	7470A	879267
680-262766-15	AG25158	Total/NA	Ground Water	7470A	879267
680-262766-16	AG25154	Total/NA	Ground Water	7470A	879267
680-262766-17	AG25155	Total/NA	Ground Water	7470A	879270
680-262766-18	AG25163	Total/NA	Ground Water	7470A	879270
MB 680-879267/1-A	Method Blank	Total/NA	Water	7470A	879267

Metals (Continued)

Analysis Batch: 879304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	879270
LCS 680-879267/2-A	Lab Control Sample	Total/NA	Water	7470A	879267
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	879270
680-262754-D-3-C MS	Matrix Spike	Total/NA	Water	7470A	879267
680-262754-D-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879267
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	879270
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879270

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25178
Date Collected: 03/07/25 09:50
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:07

Client Sample ID: AG25179
Date Collected: 03/07/25 09:55
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:37

Client Sample ID: AG25180
Date Collected: 03/07/25 10:25
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:56

Client Sample ID: AG25181
Date Collected: 03/07/25 10:30
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:05

Client Sample ID: AG25125
Date Collected: 02/24/25 11:15
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:34

Client Sample ID: AG25131
Date Collected: 02/25/25 15:21
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:10

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25132
Date Collected: 02/25/25 14:56
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:48

Client Sample ID: AG25133
Date Collected: 02/25/25 13:45
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:53

Client Sample ID: AG25134
Date Collected: 02/25/25 13:50
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:51

Client Sample ID: AG25136
Date Collected: 03/07/25 11:25
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-10
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:03

Client Sample ID: AG25137
Date Collected: 03/07/25 11:30
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:46

Client Sample ID: AG27580
Date Collected: 03/07/25 09:18
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:25

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25156
Date Collected: 03/07/25 14:41
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:27

Client Sample ID: AG25157
Date Collected: 03/07/25 13:00
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-14
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:39

Client Sample ID: AG25158
Date Collected: 03/07/25 13:05
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-15
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:44

Client Sample ID: AG25154
Date Collected: 03/06/25 09:45
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-16
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:41

Client Sample ID: AG25155
Date Collected: 03/06/25 14:39
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-17
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:06

Client Sample ID: AG25163
Date Collected: 03/06/25 11:49
Date Received: 03/13/25 09:30

Lab Sample ID: 680-262766-18
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:16

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 3 / 21 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

COOLER 2

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.681.3 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG25178	WAP-2 BP SW-1	3/7/25	0950	MDG DA	1	P	G	GW	2	7471 RL < 0.2 ug/L	X
79	WAP-2 BP SW-1 DUP	"	0955	"	"	"	"	"	"		"
80	WAP-2 DITCH-SW-1	"	1025	"	"	"	"	"	"		"
81	WAP-2 DITCH-SW-1	"	1030	"	"	"	"	"	"		"
AG25125	WAP-3	2/24/25	1115	AFH SB							
AG25131	WAP-9	2/25/25	1521	MDG SB							
32	WAP-9F	"	1456	"							
33	WAP-10	"	1345	"							
34	WAP-10 DUP	"	1350	"	"	"	"	"	"		"

680-262766 Chain of Custody

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	Trans. Oil Quality	☐ BTEX	Ag Al As B
	AIM	☐ % Moisture	☐ LOI	%Moisture	☐ Naphthalene	Ba Be Ca Cd
	☐ TOC	☐ Ash	☐ % Carbon	Color	☐ VOA/Semi	Co Cr Cu Fe
	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	Acidity	☐ Oil & Grease	K Li Mg Mn
P	☐ Soluble Metals	☐ BTUs	☐ Sieve	Dielectric Strength	☐ E. Coli	Mo Na Ni Pb
	☐ Purity ($CaSO_4$)	**Ultimate**	☐ % Moisture	IFT	☐ Total Coliform	Sb Se Sn Sr
	☐ % Moisture	☐ Volatile Matter		Dissolved Gases	☐ pH	Ti Tl V Zn
	☐ Sulfites	☐ CHN	**NPDES**		☐ Dissolved As	Hg CrVI XRF scan
	☐ pH	☐ HGI	☐ Oil & Grease	Used Oil	☐ Dissolved Fe	RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
SO_4	☐ Chlorides	Other Analysis:	☐ As		☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS	Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter			☐ PCB	
	☐ USDA			COFER		

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	FED-EX	—	3/12/25	1030
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
				3/13/25	0930
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

16.4/16.4

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 3 / 21 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

COOLER 2

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG25136	WAP-12	3/7/25	1125	MDG DA	1	P	G	GW	2	7471 RL < 0.2 ug/L	X
37	WAP-12 DUP		1130								
AG27580	WAP-21		0918								
AG25156	WAP-25		1441								
57	WAP-26		1300								
58	WAP-26 DUP		1305								
AG25154	WAP-23	3/6/25	0945								
55	WAP-24		1439								
63	WAP-30		1149								

Nutrients
- TOC
- TP/TPO4
- NH3-N
- F
- Cl
- NO2
- Br
- NO3
- SO4

Gypsum
- Wallboard
- AIM
- Total metals
- Soluble Metals
- Purity
- % Moisture
- pH
- Chlorides
- Particle Size
- USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI
- Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- Trans. Oil Quality
- Used Oil
- GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
SRevy	35594	FED-EX	—	3/12/25	1030
				3/13/25	0930
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

16.4/16.4

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-262766-1

Login Number: 262766
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-262766-1
Project/Site: 125915/JM02.08.E01.3/36500

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

August 13, 2025

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

Re: ABS Lab Analytical
Work Order: 734048

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 18, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Christopher Rossmann for
Julie Robinson
Project Manager

Purchase Order: 125915/JM02.09.G01.1/36500
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 734048 GEL Work Order: 734048

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Chris Rossmann

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

Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36886	Project:	SOOP00119
Sample ID:	734048001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	14-JUL-25 10:18		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.25	+/-0.577	0.795	1.00	pCi/L			CH7	07/31/25	1059	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.639	+/-0.326	0.340	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.7	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36907	Project:	SOOP00119
Sample ID:	734048002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	14-JUL-25 11:34		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.14	+/-0.509	0.700	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.14	+/-0.348	0.203	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.1	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36908	Project:	SOOP00119
Sample ID:	734048003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	14-JUL-25 12:31		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.558	+/-0.456	0.713	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.337	+/-0.303	0.461	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.3	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Client Sample ID:	AG36894	Project:	SOOP00119
Sample ID:	734048004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	14-JUL-25 13:48		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.94	+/-0.656	0.731	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.802	+/-0.314	0.227	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.6	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36895	Project:	SOOP00119
Sample ID:	734048005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	14-JUL-25 13:53		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.67	+/-0.583	0.711	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.987	+/-0.380	0.352	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36884	Project:	SOOP00119
Sample ID:	734048006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-JUL-25 13:39		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.27	+/-0.806	0.715	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.28	+/-0.534	0.387	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.3	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36885	Project:	SOOP00119
Sample ID:	734048007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-JUL-25 13:44		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.06	+/-0.728	0.678	1.00	pCi/L			CH7	07/31/25	1230	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.41	+/-0.436	0.422	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.3	(15%-125%)

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: August 13, 2025

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

Client Sample ID:	AG36903	Project:	SOOP00119
Sample ID:	734048008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	10-JUL-25 10:13		
Receive Date:	18-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.736	+/-0.597	0.943	1.00	pCi/L			CH7	08/04/25	0954	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.294	+/-0.199	0.225	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			29.6	(15%-125%)

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: August 13, 2025

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

Workorder: **734048**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2833531										
QC1206176165 LCS										
Radium-228	27.4			28.2	pCi/L		103	(75%-125%)	CH7	07/31/25 10:59
	Uncertainty			+/-1.85						
QC1206177760 LCSD										
Radium-228	27.4			30.1	pCi/L	6.58	110	(0%-20%)		07/31/25 10:56
	Uncertainty			+/-1.92						
QC1206176163 MB										
Radium-228				0.911	pCi/L					07/31/25 10:59
	Uncertainty			+/-0.498						
Rad Ra-226										
Batch 2836561										
QC1206182077 734048001 DUP										
Radium-226		0.639		1.40	pCi/L	74.7		(0% - 100%)	LB2	08/13/25 08:46
	Uncertainty	+/-0.326		+/-0.418						
QC1206182081 LCS										
Radium-226	27.2			24.5	pCi/L		90.1	(75%-125%)		08/13/25 09:19
	Uncertainty			+/-1.72						
QC1206182076 MB										
Radium-226			U	0.0842	pCi/L					08/13/25 08:46
	Uncertainty			+/-0.182						
QC1206182078 734048001 MS										
Radium-226	134	0.639		103	pCi/L		76.6	(75%-125%)		08/13/25 09:19
	Uncertainty	+/-0.326		+/-7.47						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **734048**

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

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 734048

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2833531

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

GEL Sample ID#	Client Sample Identification
734048001	AG36886
734048002	AG36907
734048003	AG36908
734048004	AG36894
734048005	AG36895
734048006	AG36884
734048007	AG36885
734048008	AG36903
1206176163	Method Blank (MB)
1206176165	Laboratory Control Sample (LCS)
1206177760	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1206176163 (MB)	Radium-228	Result: 0.911 pCi/L > MDA: 0.708 pCi/L <= RDL: 1.00 pCi/L

Technical Information

Recounts
Sample 734048007 (AG36885) was recounted to verify sample results. Recount is reported.
Sample 734048008 (AG36903) was re-eluted and recounted to verify sample result. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2836561

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

GEL Sample ID#	Client Sample Identification
734048001	AG36886
734048002	AG36907
734048003	AG36908
734048004	AG36894
734048005	AG36895
734048006	AG36884
734048007	AG36885
734048008	AG36903
1206182076	Method Blank (MB)
1206182077	734048001(AG36886) Sample Duplicate (DUP)
1206182078	734048001(AG36886) Matrix Spike (MS)
1206182081	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, 1206182078 (AG36886MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): ___/___/___ Send report to icwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

734048 RAD

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged Q: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 224/228			
AG36886	WAP-13	7/14/25	1018	ATH EA	2	P	G	GW	2		X			
AG36907	WAP-28	"	1134	"	"	"	"	"	"		"			
AG36908	WAP-28R	"	1231	"	"	"	"	"	"		"			
AG36894	WAP-17	"	1348	"	"	"	"	"	"		"			
AG36895	WAP-17 DUP	"	1353	"	"	"	"	"	"		"			
AG36884	WAP-12	7/10/25	1339	AGP EA	"	"	"	"	"		"			
AG36885	WAP-12 DUP	"	1344	"	"	"	"	"	"		"			
AG36903	WAP-25	"	1013	"	"	"	"	"	"		"			

Nutrients
- F
- Cl
- NO3
- PO4
- SO4

Gypsum
- CaO
- MgO
- Soluble Mg
- Soluble Na
- Moisture
- Total Sulfur
- Sulfite
- Chloride
- Soluble Ca
- Solids
- USA #

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- Flash Of Oil (F)
- Viscosity
- Density
- Pour Point
- Water
- Sediment
- Ash
- Sulfur
- Gravity
- Color
- Neut. No.
- Carbon Residue
- Pentane Insol.
- Heptane Insol.
- Toluene Insol.
- Asphaltenes
- Conradson Carbon
- Aromatics
- Saturates
- Resins
- Wax Content
- Cetane Index
- Cloud Point
- Pour Point
- Aniline Point
- Diesel Index
- Distillation
- Gasoline
- Diesel
- Jet Fuel
- Kerosene
- Naphtha
- Lubricating Oil
- Residuum
- Gasoline Range Organics
- Diesel Range Organics
- Oil Range Organics
- Total Petroleum Hydrocarbons

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

Metals (All)
- Ag, Al, As, B
- Ba, Be, Ca, Cd
- Co, Cr, Cu, Fe
- K, Li, Mg, Mn
- Mo, Na, Ni, Pb
- Sb, Se, Si, Sn
- Sr, Ti, V, Zn
- Hg, CN, NRI Steel
- RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	36851	[signature]	GEL	7/18/25	1011
[signature]	GEL	[signature]		7/18/25	16:45

Sample Receiving (Internal Use Only)

TEMP (°C): ___

Initials: ___

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-fly ash, BA-bottom ash, DI-fluse (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP

SDG/AR/COC/Work Order: 734048

Received By: SLB

Date Received at GEL: 7-18-25

GEL PM:

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-24 Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
1	21				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes___ No___
B Did the client designate the samples are to be received as radioactive?		✓	N/A
C Did the RSO classify the samples as Radioactive?		✓	COC listed or radioactive stickers on containers equal client designation. Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 4 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff 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	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?			✓	Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials CR Date 7/22/25

Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 13 August 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

March 28, 2025

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

Re: ABS Lab Analytical
Work Order: 711428

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 28, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Joanne Harley for
Julie Robinson
Project Manager

Purchase Order: 125915/JM02.08.G01.3/36500
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 711428 GEL Work Order: 711428

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

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

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

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

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

Reviewed by J M Hanley

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

Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25153	Project:	SOOP00119
Sample ID:	711428001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 12:19		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0474	0.0330	0.100	mg/L		1	TXT1	02/28/25	2333	2758487	1
Chloride		100	1.34	4.00	mg/L		20	TXT1	03/01/25	1708	2758487	2
Sulfate		98.6	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25129	Project:	SOOP00119
Sample ID:	711428002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 11:42		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0599	0.0330	0.100	mg/L		1	TXT1	03/01/25	0108	2758487	1
Chloride		26.6	0.335	1.00	mg/L		5	TXT1	03/01/25	1843	2758487	2
Sulfate		1010	13.3	40.0	mg/L		100	TXT1	03/01/25	1915	2758487	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25125	Project:	SOOP00119
Sample ID:	711428003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 11:15		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.102	0.0330	0.100	mg/L		1	TXT1	03/01/25	0140	2758487	1
Chloride		185	3.35	10.0	mg/L		50	TXT1	03/01/25	1947	2758487	2
Sulfate		143	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25135	Project:	SOOP00119
Sample ID:	711428004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 10:03		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		81.6	1.34	4.00	mg/L		20	TXT1	03/01/25	2019	2758487	1
Sulfate		257	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25170	Project:	SOOP00119
Sample ID:	711428005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 09:34		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		3.30	0.0670	0.200	mg/L		1	TXT1	03/01/25	0244	2758487	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		53.1	0.665	2.00	mg/L		5	TXT1	03/01/25	2051	2758487	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25171	Project:	SOOP00119
Sample ID:	711428006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 09:39		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		3.31	0.0670	0.200	mg/L		1	TXT1	03/01/25	0316	2758487	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		54.2	0.665	2.00	mg/L		5	TXT1	03/01/25	2123	2758487	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25128	Project:	SOOP00119
Sample ID:	711428007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 10:36		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		18.1	0.335	1.00	mg/L		5	TXT1	03/01/25	2154	2758487	1
Sulfate		85.6	0.665	2.00	mg/L		5					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25130	Project:	SOOP00119
Sample ID:	711428008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 12:45		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		482	6.70	20.0	mg/L		100	TXT1	03/03/25	1302	2758487	1
Sulfate		952	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25131	Project:	SOOP00119
Sample ID:	711428009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 15:21		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0544	0.0330	0.100	mg/L		1	TXT1	03/01/25	0555	2758487	1
Chloride		113	3.35	10.0	mg/L		50	TXT1	03/02/25	0002	2758487	2
Sulfate		542	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25132	Project:	SOOP00119
Sample ID:	711428010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 14:56		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	TXT1	03/01/25	0627	2758487	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25133	Project:	SOOP00119
Sample ID:	711428011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 13:45		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	U	0.0330	0.0330	0.100	mg/L		1	TXT1	03/01/25	0803	2758487	1
Chloride		362	6.70	20.0	mg/L		100	TXT1	03/02/25	0034	2758487	2
Sulfate		580	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25134	Project:	SOOP00119
Sample ID:	711428012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 13:50		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	U	0.0330	0.0330	0.100	mg/L		1	TXT1	03/01/25	0834	2758487	1
Chloride		343	6.70	20.0	mg/L		100	TXT1	03/02/25	0106	2758487	2
Sulfate		560	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Report Date: March 28, 2025

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

Client Sample ID:	AG25143	Project:	SOOP00119
Sample ID:	711428013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 11:44		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0602	0.0330	0.100	mg/L		1	TXT1	03/01/25	0938	2758487	1
Chloride		294	3.35	10.0	mg/L		50	TXT1	03/02/25	0137	2758487	2
Sulfate		119	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25142	Project:	SOOP00119
Sample ID:	711428014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 13:20		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0507	0.0330	0.100	mg/L		1	TXT1	03/01/25	1010	2758487	1
Chloride		788	13.4	40.0	mg/L		200	TXT1	03/02/25	0209	2758487	2
Sulfate		580	26.6	80.0	mg/L		200					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25141	Project:	SOOP00119
Sample ID:	711428015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 14:00		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0775	0.0330	0.100	mg/L		1	TXT1	03/01/25	1217	2758487	1
Chloride		969	16.8	50.0	mg/L		250	TXT1	03/03/25	1334	2758487	2
Sulfate		640	33.3	100	mg/L		250					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25162	Project:	SOOP00119
Sample ID:	711428016	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 09:07		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0734	0.0330	0.100	mg/L		1	TXT1	03/01/25	0400	2758488	1
Chloride		567	13.4	40.0	mg/L		200	TXT1	03/01/25	1944	2758488	2
Sulfate		444	26.6	80.0	mg/L		200					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25139	Project:	SOOP00119
Sample ID:	711428017	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 10:12		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.796	0.0330	0.100	mg/L		1	TXT1	03/01/25	0431	2758488	1
Chloride		1410	16.8	50.0	mg/L		250	TXT1	03/01/25	2016	2758488	2
Sulfate		798	33.3	100	mg/L		250					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25140	Project:	SOOP00119
Sample ID:	711428018	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 10:17		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.805	0.0330	0.100	mg/L		1	TXT1	03/01/25	0502	2758488	1
Chloride		1390	16.8	50.0	mg/L		250	TXT1	03/01/25	2047	2758488	2
Sulfate		809	33.3	100	mg/L		250					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25160	Project:	SOOP00119
Sample ID:	711428019	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 12:11		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.134	0.0330	0.100	mg/L		1	TXT1	03/01/25	0534	2758488	1
Chloride		173	3.35	10.0	mg/L		50	TXT1	03/01/25	2118	2758488	2
Sulfate		139	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25161	Project:	SOOP00119
Sample ID:	711428020	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 12:49		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0828	0.0330	0.100	mg/L		1	TXT1	03/01/25	0637	2758488	1
Chloride		63.9	0.670	2.00	mg/L		10	TXT1	03/01/25	2150	2758488	2
Sulfate		61.8	1.33	4.00	mg/L		10					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25138	Project:	SOOP00119
Sample ID:	711428021	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 13:41		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0992	0.0330	0.100	mg/L		1	TXT1	03/01/25	0811	2758488	1
Chloride		446	6.70	20.0	mg/L		100	TXT1	03/01/25	2324	2758488	2
Sulfate		99.2	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25177	Project:	SOOP00119
Sample ID:	711428022	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 10:06		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	TXT1	03/01/25	0945	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25175	Project:	SOOP00119
Sample ID:	711428023	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 10:42		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.177	0.0330	0.100	mg/L		1	TXT1	03/01/25	1016	2758488	1
Chloride		70.2	1.34	4.00	mg/L		20	TXT1	03/01/25	2355	2758488	2
Sulfate		257	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25176	Project:	SOOP00119
Sample ID:	711428024	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 10:47		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.147	0.0330	0.100	mg/L		1	TXT1	03/01/25	1048	2758488	1
Chloride		69.5	1.34	4.00	mg/L		20	TXT1	03/02/25	0027	2758488	2
Sulfate		252	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25148	Project:	SOOP00119
Sample ID:	711428025	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 11:49		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.132	0.0330	0.100	mg/L		1	TXT1	03/01/25	1119	2758488	1
Chloride		39.0	1.34	4.00	mg/L		20	TXT1	03/02/25	0201	2758488	2
Sulfate		150	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25165	Project:	SOOP00119
Sample ID:	711428026	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 09:38		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.103	0.0330	0.100	mg/L		1	TXT1	03/01/25	1150	2758488	1
Chloride		12.5	0.134	0.400	mg/L		2	TXT1	03/02/25	0232	2758488	2
Sulfate		379	6.65	20.0	mg/L		50	TXT1	03/02/25	0406	2758488	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25166	Project:	SOOP00119
Sample ID:	711428027	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 11:55		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		9.88	0.0670	0.200	mg/L		1	TXT1	03/01/25	1325	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		159	2.66	8.00	mg/L		20	TXT1	03/02/25	0540	2758488	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25172	Project:	SOOP00119
Sample ID:	711428028	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 10:55		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0862	0.0330	0.100	mg/L		1	TXT1	03/01/25	1356	2758488	1
Chloride		134	3.35	10.0	mg/L		50	TXT1	03/02/25	0612	2758488	2
Sulfate		358	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25167	Project:	SOOP00119
Sample ID:	711428029	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 12:58		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	U	0.0330	0.0330	0.100	mg/L		1	TXT1	03/01/25	1427	2758488	1
Chloride		121	1.68	5.00	mg/L		25	TXT1	03/02/25	0643	2758488	2
Sulfate		310	3.33	10.0	mg/L		25					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Report Date: March 28, 2025

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

Client Sample ID:	AG25168	Project:	SOOP00119
Sample ID:	711428030	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 12:40		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	TXT1	03/01/25	1601	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25169	Project:	SOOP00119
Sample ID:	711428031	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 13:45		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		3.22	0.0670	0.200	mg/L		1	TXT1	03/01/25	1633	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		60.6	0.665	2.00	mg/L		5	TXT1	03/02/25	0817	2758488	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: March 28, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **711428**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2758487										
QC1206022215 711428001 DUP										
Chloride		100		101	mg/L	0.137		(0%-20%)	TXT1	03/01/25 17:40
Fluoride	J	0.0474	J	0.0486	mg/L	2.5	^	(+/-0.100)		03/01/25 00:05
Sulfate		98.6		97.3	mg/L	1.28		(0%-20%)		03/01/25 17:40
QC1206022217 711428010 DUP										
Chloride	U	0.0670	U	0.0670	mg/L	N/A				03/01/25 06:59
Fluoride	U	0.0330	U	0.0330	mg/L	N/A				
Sulfate	U	0.133	U	0.133	mg/L	N/A				
QC1206022214 LCS										
Chloride	5.00			4.60	mg/L		91.9	(90%-110%)		02/28/25 23:01
Fluoride	2.50			2.39	mg/L		95.7	(90%-110%)		
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1206022213 MB										
Chloride			U	0.0670	mg/L					02/28/25 22:29
Fluoride			U	0.0330	mg/L					
Sulfate			U	0.133	mg/L					

QC Summary

Workorder: **711428**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2758487												
QC1206022216 711428001 PS												
Chloride	5.00		5.02		10.2	mg/L			104	(90%-110%)	TXT1	03/01/25 18:11
Fluoride	2.50	J	0.0474		2.42	mg/L			94.8	(90%-110%)		03/01/25 00:36
Sulfate	10.0		4.93		14.5	mg/L			96.1	(90%-110%)		03/01/25 18:11
QC1206022218 711428010 PS												
Chloride	5.00	U	0.000		4.58	mg/L			91.7	(90%-110%)		03/01/25 07:31
Fluoride	2.50	U	0.000		2.43	mg/L			97.1	(90%-110%)		
Sulfate	10.0	U	0.000		9.27	mg/L			92.7	(90%-110%)		
Batch 2758488												
QC1206022221 711428020 DUP												
Chloride			63.9		63.7	mg/L	0.279			(0%-20%)	TXT1	03/01/25 22:21
Fluoride		J	0.0828	J	0.0823	mg/L	0.606	^		(+/-0.100)		03/01/25 07:08
Sulfate			61.8		61.5	mg/L	0.475			(0%-20%)		03/01/25 22:21
QC1206022223 711428026 DUP												
Chloride			12.5		12.3	mg/L	1.75			(0%-20%)		03/02/25 03:04
Fluoride			0.103	J	0.0961	mg/L	7.22	^		(+/-0.100)		03/01/25 12:22
Sulfate			379		377	mg/L	0.575			(0%-20%)		03/02/25 04:38
QC1206022220 LCS												
Chloride	5.00				4.62	mg/L			92.5	(90%-110%)		03/01/25 03:28

QC Summary

Workorder: **711428**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2758488										
Fluoride	2.50			2.36	mg/L		94.4	(90%-110%)	TXT1	03/01/25 03:28
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1206022219 MB										
Chloride			U	0.0670	mg/L					03/01/25 02:57
Fluoride			U	0.0330	mg/L					
Sulfate			U	0.133	mg/L					
QC1206022222 711428020 PS										
Chloride	5.00	6.39		11.8	mg/L		108	(90%-110%)		03/01/25 22:53
Fluoride	2.50 J	0.0828		2.45	mg/L		94.8	(90%-110%)		03/01/25 07:39
Sulfate	10.0	6.18		16.0	mg/L		97.8	(90%-110%)		03/01/25 22:53
QC1206022224 711428026 PS										
Chloride	5.00	6.24		11.6	mg/L		107	(90%-110%)		03/02/25 03:35
Fluoride	2.50	0.103		2.44	mg/L		93.4	(90%-110%)		03/01/25 12:53
Sulfate	10.0	7.59		17.5	mg/L		99.4	(90%-110%)		03/02/25 05:09

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **711428**

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

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
N1	See case narrative
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

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Certificate of Analysis

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

Client Sample ID:	AG25153	Project:	SOOP00119
Sample ID:	711428001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 12:19		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.703	+/-0.550	0.846	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.574	+/-0.346	0.364	1.00	pCi/L			MJ2	03/26/25	1037	2761178	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25129	Project:	SOOP00119
Sample ID:	711428002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 11:42		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.0806	+/-0.401	0.738	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.434	+/-0.306	0.377	1.00	pCi/L			MJ2	03/26/25	1037	2761178	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25125	Project:	SOOP00119
Sample ID:	711428003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 11:15		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.822	+/-0.597	0.957	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.771	+/-0.411	0.419	1.00	pCi/L			MJ2	03/26/25	1107	2761178	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.1	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25170	Project:	SOOP00119
Sample ID:	711428005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 09:34		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.08	+/-0.609	0.933	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.194	+/-0.242	0.403	1.00	pCi/L			MJ2	03/26/25	1107	2761178	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25171	Project:	SOOP00119
Sample ID:	711428006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 09:39		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.829	+/-0.594	0.944	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.219	+/-0.252	0.385	1.00	pCi/L			MJ2	03/26/25	1107	2761178	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Client Sample ID:	AG25131	Project:	SOOP00119
Sample ID:	711428009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 15:21		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.09	+/-0.524	0.747	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.37	+/-0.535	0.451	1.00	pCi/L			MJ2	03/26/25	1107	2761178	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Client Sample ID:	AG25132	Project:	SOOP00119
Sample ID:	711428010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 14:56		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.12	+/-0.649	0.910	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.153	+/-0.318	0.586	1.00	pCi/L			RS2	03/28/25	1051	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			42.3	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25133	Project:	SOOP00119
Sample ID:	711428011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 13:45		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.60	+/-0.679	0.988	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.35	+/-0.731	0.578	1.00	pCi/L			RS2	03/28/25	1051	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.4	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25134	Project:	SOOP00119
Sample ID:	711428012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-FEB-25 13:50		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.240	+/-0.520	0.915	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.15	+/-0.469	0.519	1.00	pCi/L			RS2	03/28/25	1052	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.1	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25143	Project:	SOOP00119
Sample ID:	711428013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 11:44		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.30	+/-0.534	0.681	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.91	+/-0.612	0.533	1.00	pCi/L			RS2	03/28/25	1052	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			62.3	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25142	Project:	SOOP00119
Sample ID:	711428014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 13:20		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.84	+/-0.609	0.699	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		7.83	+/-1.08	0.456	1.00	pCi/L			RS2	03/28/25	1052	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			58.8	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25141	Project:	SOOP00119
Sample ID:	711428015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 14:00		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.768	+/-0.467	0.691	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.807	+/-0.377	0.368	1.00	pCi/L			RS2	03/28/25	1052	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25162	Project:	SOOP00119
Sample ID:	711428016	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 09:07		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.626	+/-0.419	0.637	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.24	+/-0.575	0.702	1.00	pCi/L			RS2	03/28/25	1052	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25139	Project:	SOOP00119
Sample ID:	711428017	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 10:12		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.752	+/-0.458	0.674	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.40	+/-0.641	0.329	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.9	(15%-125%)

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

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25140	Project:	SOOP00119
Sample ID:	711428018	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	20-FEB-25 10:17		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.31	+/-0.541	0.696	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.04	+/-0.449	0.515	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			66	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25160	Project:	SOOP00119
Sample ID:	711428019	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 12:11		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.113	+/-0.375	0.691	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.31	+/-0.741	0.708	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.7	(15%-125%)

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

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25161	Project:	SOOP00119
Sample ID:	711428020	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 12:49		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.173	+/-0.313	0.681	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.515	+/-0.357	0.475	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64.9	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: March 28, 2025

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

Client Sample ID:	AG25138	Project:	SOOP00119
Sample ID:	711428021	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-FEB-25 13:41		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.57	+/-0.518	0.627	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.83	+/-0.573	0.341	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25177	Project:	SOOP00119
Sample ID:	711428022	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 10:06		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.321	+/-0.433	0.743	1.00	pCi/L			DH1	03/27/25	1337	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.38	+/-0.502	0.501	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			57.6	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25175	Project:	SOOP00119
Sample ID:	711428023	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 10:42		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.178	+/-0.437	0.776	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.06	+/-0.467	0.525	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.5	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25176	Project:	SOOP00119
Sample ID:	711428024	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 10:47		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.451	+/-0.737	1.28	1.00	pCi/L			DH1	03/28/25	1231	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.0879	+/-0.385	0.745	1.00	pCi/L			RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.2	(15%-125%)

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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Client Sample ID:	AG25148	Project:	SOOP00119
Sample ID:	711428025	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-FEB-25 11:49		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.485	+/-0.441	0.724	1.00	pCi/L			DH1	03/28/25	1231	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.06	+/-0.491	0.585	1.00	pCi/L			RS2	03/28/25	1213	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.5	(15%-125%)

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

Column headers are defined as follows:

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

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25165	Project:	SOOP00119
Sample ID:	711428026	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 09:38		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.998	+/-0.454	0.601	1.00	pCi/L			DH1	03/28/25	1231	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.832	+/-0.431	0.512	1.00	pCi/L			RS2	03/28/25	1213	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25166	Project:	SOOP00119
Sample ID:	711428027	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 11:55		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.474	+/-0.333	0.503	1.00	pCi/L			DH1	03/28/25	1231	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.878	+/-0.435	0.443	1.00	pCi/L			RS2	03/28/25	0855	2766323	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.3	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25172	Project:	SOOP00119
Sample ID:	711428028	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 10:55		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.370	+/-0.342	0.555	1.00	pCi/L			DH1	03/28/25	1231	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.498	+/-0.360	0.513	1.00	pCi/L			RS2	03/28/25	0855	2766323	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25167	Project:	SOOP00119
Sample ID:	711428029	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 12:58		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.19	+/-0.442	0.531	1.00	pCi/L			DH1	03/28/25	1232	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.42	+/-0.593	0.583	1.00	pCi/L			RS2	03/28/25	0855	2766323	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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%)

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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25168	Project:	SOOP00119
Sample ID:	711428030	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 12:40		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.313	+/-0.547	0.952	1.00	pCi/L			DH1	03/28/25	1232	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.300	+/-0.255	0.360	1.00	pCi/L			RS2	03/28/25	0854	2766323	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID:	AG25169	Project:	SOOP00119
Sample ID:	711428031	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-FEB-25 13:45		
Receive Date:	28-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.782	+/-0.511	0.765	1.00	pCi/L			DH1	03/28/25	1232	2761042	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.81	+/-0.681	0.695	1.00	pCi/L			RS2	03/28/25	0854	2766323	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			54.4	(15%-125%)

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

Column headers are defined as follows:

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

QC Summary

Report Date: March 28, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **711428**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2761041										
QC1206027592 711428001 DUP										
Radium-228	U	0.703	U	0.521	pCi/L	N/A		N/A	DH1	03/27/25 13:36
	Uncertainty	+/-0.550		+/-0.579						
QC1206027593 LCS										
Radium-228	28.4			23.4	pCi/L		82.3	(75%-125%)		03/27/25 13:36
	Uncertainty			+/-1.81						
QC1206027591 MB										
Radium-228			U	-0.174	pCi/L					03/27/25 13:36
	Uncertainty			+/-0.432						
Batch 2761042										
QC1206027595 711428024 DUP										
Radium-228	U	0.451	U	0.767	pCi/L	N/A		N/A	DH1	03/28/25 12:31
	Uncertainty	+/-0.737		+/-0.633						
QC1206027596 LCS										
Radium-228	28.4			28.9	pCi/L		102	(75%-125%)		03/28/25 12:31
	Uncertainty			+/-1.60						
QC1206027594 MB										
Radium-228			U	0.0539	pCi/L					03/28/25 12:31
	Uncertainty			+/-0.216						
Rad Ra-226										
Batch 2761178										
QC1206027857 711428001 DUP										
Radium-226		0.574		0.766	pCi/L	28.6		(0% - 100%)	MJ2	03/26/25 11:07
	Uncertainty	+/-0.346		+/-0.380						
QC1206027860 LCS										
Radium-226	27.3			25.5	pCi/L		93.5	(75%-125%)		03/26/25 11:40
	Uncertainty			+/-2.25						
QC1206027855 MB										
Radium-226			U	0.126	pCi/L					03/26/25 11:07
	Uncertainty			+/-0.178						

QC Summary

Workorder: **711428**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2761178										
QC1206027859 711428001 MS										
Radium-226	133	0.574		122	pCi/L		91.1	(75%-125%)	MJ2	03/26/25 11:40
	Uncertainty	+/-0.346		+/-10.5						
Batch 2761179										
QC1206027862 711428010 DUP										
Radium-226	U	0.153		0.395	pCi/L	88.4		(0% - 100%)	RS2	03/28/25 12:13
	Uncertainty	+/-0.318		+/-0.268						
QC1206027864 LCS										
Radium-226	27.1			28.4	pCi/L		105	(75%-125%)		03/28/25 12:13
	Uncertainty			+/-2.02						
QC1206027861 MB										
Radium-226				0.479	pCi/L					03/28/25 12:13
	Uncertainty			+/-0.325						
QC1206027863 711428010 MS										
Radium-226	128 U	0.153		146	pCi/L		114	(75%-125%)		03/28/25 12:13
	Uncertainty	+/-0.318		+/-11.1						
Batch 2766323										
QC1206046944 711428027 DUP										
Radium-226		0.878		1.24	pCi/L	34.2		(0% - 100%)	RS2	03/28/25 10:12
	Uncertainty	+/-0.435		+/-0.496						
QC1206038663 LCS										
Radium-226	27.2			21.2	pCi/L		78.1	(75%-125%)		03/28/25 10:51
	Uncertainty			+/-1.88						
QC1206038660 MB										
Radium-226			U	0.335	pCi/L					03/28/25 15:10
	Uncertainty			+/-0.328						
QC1206046945 711428027 MS										
Radium-226	136	0.878		113	pCi/L		82	(75%-125%)		03/28/25 15:10
	Uncertainty	+/-0.435		+/-9.40						

Notes:

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

The Qualifiers in this report are defined as follows:

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

J Value is estimated

QC Summary

Workorder: **711428**

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

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Technical Case Narrative
Santee Cooper
SDG #: 711428

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2758487

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

GEL Sample ID#	Client Sample Identification
711428001	AG25153
711428002	AG25129
711428003	AG25125
711428004	AG25135
711428005	AG25170
711428006	AG25171
711428007	AG25128
711428008	AG25130
711428009	AG25131
711428010	AG25132
711428011	AG25133
711428012	AG25134
711428013	AG25143
711428014	AG25142
711428015	AG25141
1206022213	Method Blank (MB)
1206022214	Laboratory Control Sample (LCS)
1206022215	711428001(AG25153) Sample Duplicate (DUP)
1206022216	711428001(AG25153) Post Spike (PS)
1206022217	711428010(AG25132) Sample Duplicate (DUP)
1206022218	711428010(AG25132) 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 1206022215 (AG25153DUP), 1206022216 (AG25153PS), 711428001 (AG25153), 711428002 (AG25129), 711428003 (AG25125), 711428004 (AG25135), 711428005 (AG25170), 711428006 (AG25171), 711428007 (AG25128), 711428008 (AG25130), 711428009 (AG25131), 711428011 (AG25133), 711428012 (AG25134), 711428013 (AG25143), 711428014 (AG25142) and 711428015 (AG25141) 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.

Analyte	711428									
	001	002	003	004	005	006	007	008	009	011
Chloride	20X	5X	50X	20X	1X	1X	5X	100X	50X	100X
Sulfate	20X	100X	50X	20X	5X	5X	5X	100X	50X	100X

Analyte	711428			
	012	013	014	015
Chloride	100X	50X	200X	250X
Sulfate	100X	50X	200X	250X

Sample Re-analysis
Samples 711428008 (AG25130) and 711428015 (AG25141) were re-analyzed to verify the results.

Miscellaneous Information

Manual Integrations
Samples 711428014 (AG25142) and 711428015 (AG25141) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2758488

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

GEL Sample ID#	Client Sample Identification
711428016	AG25162
711428017	AG25139
711428018	AG25140
711428019	AG25160
711428020	AG25161
711428021	AG25138
711428022	AG25177
711428023	AG25175
711428024	AG25176
711428025	AG25148
711428026	AG25165
711428027	AG25166
711428028	AG25172
711428029	AG25167
711428030	AG25168
711428031	AG25169
1206022219	Method Blank (MB)
1206022220	Laboratory Control Sample (LCS)
1206022221	711428020(AG25161) Sample Duplicate (DUP)
1206022222	711428020(AG25161) Post Spike (PS)
1206022223	711428026(AG25165) Sample Duplicate (DUP)
1206022224	711428026(AG25165) 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 1206022221 (AG25161DUP), 1206022222 (AG25161PS), 1206022223 (AG25165DUP), 1206022224 (AG25165PS), 711428016 (AG25162), 711428017 (AG25139), 711428018 (AG25140), 711428019 (AG25160), 711428020 (AG25161), 711428021 (AG25138), 711428022 (AG25177), 711428023 (AG25175), 711428024 (AG25176), 711428025 (AG25148), 711428026 (AG25165), 711428027 (AG25166), 711428028 (AG25172), 711428029 (AG25167) and 711428031 (AG25169) 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.

Analyte	711428									
	016	**017**	**018**	**019**	**020**	**021**	**023**	**024**	**025**	**026**
Chloride	200X	250X	250X	50X	10X	100X	20X	20X	20X	2X
Sulfate	200X	250X	250X	50X	10X	100X	20X	20X	20X	50X

Analyte	711428			
	027	**028**	**029**	**031**
Chloride	1X	50X	25X	1X
Sulfate	20X	50X	25X	5X

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2761041

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

GEL Sample ID#	Client Sample Identification
711428001	AG25153
711428002	AG25129
711428003	AG25125
711428005	AG25170
711428006	AG25171
711428009	AG25131
711428010	AG25132
711428011	AG25133
711428012	AG25134
711428013	AG25143
711428014	AG25142
711428015	AG25141
711428016	AG25162
711428017	AG25139

711428018	AG25140
711428019	AG25160
711428020	AG25161
711428021	AG25138
711428022	AG25177
711428023	AG25175
1206027591	Method Blank (MB)
1206027592	711428001(AG25153) Sample Duplicate (DUP)
1206027593	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206027592 (AG25153DUP) and 711428001 (AG25153) Aliquots were reduced due to limited sample volume.

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2761042

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

GEL Sample ID#	Client Sample Identification
711428024	AG25176
711428025	AG25148
711428026	AG25165
711428027	AG25166
711428028	AG25172
711428029	AG25167
711428030	AG25168
711428031	AG25169
1206027594	Method Blank (MB)
1206027595	711428024(AG25176) Sample Duplicate (DUP)
1206027596	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206027595 (AG25176DUP) and 711428024 (AG25176) Aliquots were reduced due to limited sample volume.

Quality Control (QC) Information

RDL Met
The following RDL was met with rounding.

Sample	Analyte	Value
711428024 (AG25176)	Radium-228	Result 0.451 < MDA 1.28 > RDL 1 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2761178

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

GEL Sample ID#	Client Sample Identification
711428001	AG25153
711428002	AG25129
711428003	AG25125
711428005	AG25170
711428006	AG25171
711428009	AG25131
1206027855	Method Blank (MB)
1206027857	711428001(AG25153) Sample Duplicate (DUP)
1206027859	711428001(AG25153) Matrix Spike (MS)
1206027860	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206027859 (AG25153MS) Aliquot was reduced due to limited sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2761179

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

GEL Sample ID#	Client Sample Identification
711428010	AG25132
711428011	AG25133
711428012	AG25134
711428013	AG25143
711428014	AG25142
711428015	AG25141
711428016	AG25162
711428017	AG25139
711428018	AG25140
711428019	AG25160
711428020	AG25161
711428021	AG25138
711428022	AG25177
711428023	AG25175
711428024	AG25176
711428025	AG25148
711428026	AG25165
1206027861	Method Blank (MB)
1206027862	711428010(AG25132) Sample Duplicate (DUP)
1206027863	711428010(AG25132) Matrix Spike (MS)
1206027864	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1206027861 (MB)	Radium-226	Result: 0.479 pCi/L > MDA: 0.367 pCi/L <= RDL: 1.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2766323

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

GEL Sample ID#	Client Sample Identification
711428027	AG25166
711428028	AG25172
711428029	AG25167
711428030	AG25168
711428031	AG25169
1206038660	Method Blank (MB)
1206038663	Laboratory Control Sample (LCS)
1206046944	711428027(AG25166) Sample Duplicate (DUP)
1206046945	711428027(AG25166) Matrix Spike (MS)

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

Data Summary:

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

Technical Information

Recounts
Sample 1206046945 (AG25166MS) was recounted due to low recovery. The recount is reported. Sample 1206038660 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Certification Statement

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

RAD 3/25/25

711428

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 10 / 25 Send report to icwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG25153	WAP-22	2/27/25	1219	ATH SB	3	P	G	GW	2 & 1		2	1		
AG25129	WAP-7	2/25/25	1142	MDG SB	3	P	G	GW	2 & 1		2	1		

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TP/TPO4
- ☐ NH3-N
- ☐ F
- ☐ Cl
- ☐ NO2
- ☐ Br
- ☐ NO3
- ☐ SO4

Gypsum
- ☐ Wallboard
- ☐ AIM
- ☐ TOC
- ☐ Total metals
- ☐ Soluble Metals
- ☐ Purity (CaSO4)
- ☐ % Moisture
- ☐ Sulfites
- ☐ pH
- ☐ Chlorides
- ☐ Particle Size
- ☐ Sulfur
- ☐ USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI
- **Other Analysis:**
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	2/28/25	0925
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL	McMahon	GEL	2-28-25	1543
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD 3/28/25

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 10 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com **Date Results Needed by:** ___/___/___ **Project/Task/Unit #:** 125915 / JM02.08.GB1.3 / 36500 **Rerun request for any flagged QC** (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite(C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4	Cl, SO4	
AG25125	WAP-3	2/24/25	1115	ATH SB	3	P	G	GW	2, 1		2	1	0	
AG25135	WAP-11	2/24/25	1003	"	1	P	G	GW	1		0	0	1	
AG25170	WLF-A1-4	2/27/25	0934	"	3	"	"	"	2, 1		2	1	0	
AG25171	WLF-A1-4 DUP	"	0939	"	3	"	"	"	2, 1		2	1	0	
AG25128	WAP-6	2/25/25	1036	MDG SB	1	"	"	"	1		0	0	1	
AG25130	WAP-8	"	1245	"	1	"	"	"	1		0	0	1	
AG25131	WAP-9	"	1521	"	3	"	"	"	2, 1		2	1	0	
32	WAP-9F	"	1456	"	3	"	"	"	"		2	1	0	
33	WAP-10	"	1345	"	3	"	"	"	"		2	1	0	
34	WAP-10 DUP	"	1350	"	3	"	"	"	"		2	1	0	

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TP/TPO4
- ☐ NH3-N
- ☐ F
- ☐ Cl
- ☐ NO2
- ☐ Br
- ☐ NO3
- ☐ SO4

Gypsum
- ☐ Wallboard
- ☐ AIM
- ☐ TOC
- ☐ Total metals
- ☐ Soluble Metals
- ☐ Purity (CaSO4)
- ☐ % Moisture
- ☐ Sulfites
- ☐ pH
- ☐ Chlorides
- ☐ Particle Size
- ☐ Sulfur
- ☐ USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI
- Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	2/28/25	0825
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	664		GEL	2.28.25	1545
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 3/25/25

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 10 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.GB1.1 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite(C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG25143	WAP-14C	2/20/25	1144	ATH DCA	3	P	G	GW	2+1		2	1		
42	WAP-14B		1320		3						2	1		
41	WAP-14A		1400		3						2	1		
AG25162	WAP-29		0907		3						2	1		
39	WAP-14		1012		3						2	1		
40	WAP-14 DUP		1017		3						2	1		
AG25160	WAP-28	2/24/25	1211	ATH SB	3				2+1		2	1		
61	WAP-28R		1249		3						2	1		
38	WAP-13		1341		3						2	1		

Nutrients
- TOC
- DOC
- TP/TPO4
- NH3-N
- F
- Cl
- NO2
- Br
- NO3
- SO4

Gypsum
- Wallboard
- AIM
- TOC
- Total metals
- Soluble Metals
- Purity (CaSO4)
- % Moisture
- Sulfites
- pH
- Chlorides
- Particle Size
- Sulfur
- USDA

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
- BTUs
- Ultimate
- Volatile Matter
- CHN
- HGI
- Other Analysis:
- Fineness
- Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Oil
- Trans. Oil Quality
  - %Moisture
  - Color
  - Acidity
  - Dielectric Strength
  - IFT
  - Dissolved Gases
- Used Oil
  - Flashpoint
  - Metals (As, Cd, Cr, Ni, Pb, Hg)
- GOFER

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Metals (All)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	Pb
Sb	Se	Sn	Sr
Ti	Tl	V	Zn
Hg	CrVI	XRF scan	

RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	GEL 2/28/25 2/25/25	0925 (TH)
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL		GEL	2-26-25	1545
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 3/28/25

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 10 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com **Date Results Needed by:** ___/___/___ **Project/Task/Unit #:** 125915 / JM02.08.GP1.1 / 36500 **Rerun request for any flagged QC** (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite(C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG25177	WLF-A2-6F	2/27/25	1006	ATH SB	3	P	G	GW	2+1		2	1		
75	WLF-A2-6		1042		3						2	1		
76	WLF-A2-6 DUP		1047		3						2	1		
48	WAP-18		1149		3						2	1		
AG25165	WBW-A1-1	2/26/25	0938	BWM SB	3	P	G	GW	2+1		2	1		
66	WLF-A1-1		1155		3						2	1		
72	WLF-A1-5		1055		3						2	1		
67	WLF-A1-2		1258		3						2	1		
68	WLF-A1-2F		1240		3						2	1		
69	WLF-A1-3		1345		3						2	1		

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	☐ Acidity	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☒ F	☐ Soluble Metals	☐ BTUs	☐ Sieve	☐ Dielectric Strength	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☒ Cl	☐ Purity (CaSO4)	**Ultimate**	☐ % Moisture	☐ IFT	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ % Moisture	☐ Volatile Matter		☐ Dissolved Gases	☐ pH	☐ Ti ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	**NPDES**	☐ Used Oil	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ Flashpoint	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☒ SO4	☐ Chlorides	Other Analysis:	☐ As	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☒ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☒ Rad 228	
	☐ Sulfur	☐ Particulate Matter		☐ GOFER	☐ PCB	
	☐ USDA					

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	2/28/25	0925
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL		GEL	2-28-25	1545
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOP | SDG/AR/COC/Work Order: 711428 | GEL PM: JR

Received By: CLM | Date Received at GEL: 2/28/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other: | IR Temp gun # IR5-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
(noice) Cooler 1	24°				
2	0°				
(noice) 3	17°	✓			

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff 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	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?			✓	Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials MG Date 3/3/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 28 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

July 29, 2025

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

Re: ABS Lab Analytical
Work Order: 731146

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 125915/JM02.08.G01.3/36110
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 731146 GEL Work Order: 731146

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

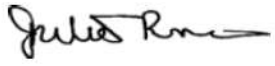
** Analyte is a surrogate compound

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

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36881	Project:	SOOP00119
Sample ID:	731146001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-JUN-25 10:58		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.40	+/-0.585	0.532	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		4.86	+/-1.03	0.517	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.8	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36882	Project:	SOOP00119
Sample ID:	731146002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-JUN-25 11:03		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.58	+/-0.609	0.691	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.56	+/-0.535	0.535	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.2	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36880	Project:	SOOP00119
Sample ID:	731146003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-JUN-25 13:11		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.908	+/-0.426	0.582	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.899	+/-0.475	0.507	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.9	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36874	Project:	SOOP00119
Sample ID:	731146004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-JUN-25 14:24		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.21	+/-0.828	0.985	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.53	+/-0.489	0.356	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			56.9	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36875	Project:	SOOP00119
Sample ID:	731146005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-JUN-25 15:33		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.949	+/-0.456	0.659	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.92	+/-0.566	0.319	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.2	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36916	Project:	SOOP00119
Sample ID:	731146006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-JUN-25 09:49		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.568	+/-0.369	0.557	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.27	+/-0.447	0.295	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.7	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36917	Project:	SOOP00119
Sample ID:	731146007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-JUN-25 09:54		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.699	+/-0.469	0.733	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.610	+/-0.317	0.292	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36915	Project:	SOOP00119
Sample ID:	731146008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-JUN-25 11:00		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.835	+/-0.452	0.654	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.62	+/-0.535	0.335	1.00	pCi/L			RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.7	(15%-125%)

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36913	Project:	SOOP00119
Sample ID:	731146009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-JUN-25 11:59		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.729	+/-0.351	0.482	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.745	+/-0.516	0.753	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36918	Project:	SOOP00119
Sample ID:	731146010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	24-JUN-25 13:04		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.197	+/-0.400	0.702	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.945	+/-0.423	0.435	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

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

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: July 29, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **731146**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2822944										
QC1206157292 LCS										
Radium-228	27.5			29.1	pCi/L		106	(75%-125%)	HH3	07/11/25 09:40
	Uncertainty			+/-1.56						
QC1206158814 LCSD										
Radium-228	27.5			33.3	pCi/L	13.7	121	(0%-20%)		07/11/25 09:40
	Uncertainty			+/-1.95						
QC1206157290 MB										
Radium-228				0.798	pCi/L					07/11/25 09:40
	Uncertainty			+/-0.383						
Rad Ra-226										
Batch 2824332										
QC1206159774 731146001 DUP										
Radium-226		4.86		3.77	pCi/L	25.2 *		(0%-20%)	RS2	07/13/25 09:37
	Uncertainty	+/-1.03		+/-0.776						
QC1206159776 LCS										
Radium-226	27.1			26.9	pCi/L		99	(75%-125%)		07/13/25 09:37
	Uncertainty			+/-2.34						
QC1206159773 MB										
Radium-226			U	0.282	pCi/L					07/13/25 09:37
	Uncertainty			+/-0.344						
QC1206159775 731146001 MS										
Radium-226	133	4.86		128	pCi/L		92.4	(75%-125%)		07/13/25 09:37
	Uncertainty	+/-1.03		+/-9.77						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **731146**

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

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 731146

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2822944

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

GEL Sample ID#	Client Sample Identification
731146001	AG36881
731146002	AG36882
731146003	AG36880
731146004	AG36874
731146005	AG36875
731146006	AG36916
731146007	AG36917
731146008	AG36915
731146009	AG36913
731146010	AG36918
1206157290	Method Blank (MB)
1206157292	Laboratory Control Sample (LCS)
1206158814	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1206157290 (MB)	Radium-228	Result: 0.798 pCi/L > MDA: 0.518 pCi/L <= RDL: 1.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2824332

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

GEL Sample ID#	Client Sample Identification
731146001	AG36881
731146002	AG36882
731146003	AG36880
731146004	AG36874
731146005	AG36875
731146006	AG36916
731146007	AG36917
731146008	AG36915
731146009	AG36913
731146010	AG36918
1206159773	Method Blank (MB)
1206159774	731146001(AG36881) Sample Duplicate (DUP)
1206159775	731146001(AG36881) Matrix Spike (MS)
1206159776	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1206159774 (AG36881DUP)	Radium-226	RPD 25.2* (0.00%-20.00%) RER 1.24 (0-3)

Miscellaneous Information

Additional Comments
The matrix spike, 1206159775 (AG36881MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): ___/___/___ Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

731146

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.GB1.3 / 36110

Rerun request for any flagged Q (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottletype: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228			
AG36881	WAP-10	6/26/25	1058	AGP EA		P	G	GW	2		X			
AG36882	WAP-10 DUP		1103											
AG36880	WAP-9		1311											
AG36874	WAP-3		1424											
AG36875	WAP-4		1533											
AG36916	WLF-A1-4	6/24/25	0949											
AG36917	WLF-A1-4 DUP		0954											
AG36915	WLF-A1-3		1100											
AG36913	WLF-A1-1		1159											
AG36918	WLF-A1-5		1304											

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TP/TPO4
- ☐ NH3-N
- ☐ F
- ☐ Cl
- ☐ NO2
- ☐ Br
- ☐ NO3
- ☐ SO4

Gypsum
- ☐ Wallboard
- ☐ AIM
- ☐ TOC
- ☐ Total metals
- ☐ Soluble Metals
- ☐ Purity (CaSO4)
- ☐ % Moisture
- ☐ Sulfites
- ☐ pH
- ☐ Chlorides
- ☐ Particle Size
- ☐ Sulfur
- ☐ USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI
- **Other Analysis:**
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	DLP	GEL	7/1/25	0950
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
DLP	GEL	Ken	GEL	7-1-25	1620
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): ___

Initials: ___

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative codes: 1=HNO3 2=NaOH 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP | SDG/AR/COC/Work Order: | GEL PM:

Received By: KE | Date Received at GEL: 070125

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-24 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
COOLER	2°				
COOLER	22°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff 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	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer). Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No). Are liquid VOA vials free of headspace? Yes___ No___ NA___. Sample IDs and containers affected:
7	Samples received within holding time?			✓	IDs and tests affected: 24 Ammonia test 125 plastic ml
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments: DUP containers AG33120-DUP and AG33676-DUP do not have times

PM (or PMA) review: Initials CR Date 7/2/25

☐ Confirmation Form Required when selected

List of current GEL Certifications as of 29 July 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

July 29, 2025

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

Re: ABS Lab Analytical
Work Order: 731157

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 125915/JM02.09.G01.1/36500
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 731157 GEL Work Order: 731157

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

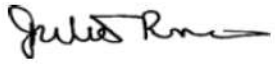
** Analyte is a surrogate compound

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

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36902	Project:	SOOP00119
Sample ID:	731157001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	26-JUN-25 12:09		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.493	+/-0.409	0.634	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.331	+/-0.342	0.529	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			65.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36872	Project:	SOOP00119
Sample ID:	731157002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 14:22		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.39	+/-0.563	0.737	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.55	+/-0.661	0.401	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			58.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36928	Project:	SOOP00119
Sample ID:	731157003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 14:27		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.00676	+/-0.497	0.977	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.437	+/-0.342	0.483	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			35.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36873	Project:	SOOP00119
Sample ID:	731157004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 15:11		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.81	+/-0.652	0.818	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.91	+/-0.760	0.464	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			58.1	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36911	Project:	SOOP00119
Sample ID:	731157005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 09:47		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.99	+/-0.527	0.563	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.248	+/-0.304	0.509	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36871	Project:	SOOP00119
Sample ID:	731157006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 10:46		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.513	+/-0.504	0.827	1.00	pCi/L			HH3	07/11/25	1121	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.63	+/-0.616	0.564	1.00	pCi/L			RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.4	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36878	Project:	SOOP00119
Sample ID:	731157007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 12:15		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.11	+/-0.515	0.736	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.421	+/-0.330	0.466	1.00	pCi/L			RS2	07/13/25	0937	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36914	Project:	SOOP00119
Sample ID:	731157008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 13:23		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.928	+/-0.397	0.493	1.00	pCi/L			HH3	07/11/25	0939	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.28	+/-0.476	0.430	1.00	pCi/L			RS2	07/13/25	0937	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.6	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36930	Project:	SOOP00119
Sample ID:	731157009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	25-JUN-25 13:28		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.07	+/-0.657	0.990	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.591	+/-0.408	0.514	1.00	pCi/L			RS2	07/13/25	0937	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			51.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2025

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

Client Sample ID:	AG36912	Project:	SOOP00119
Sample ID:	731157010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	23-JUN-25 15:28		
Receive Date:	01-JUL-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.09	+/-0.540	0.774	1.00	pCi/L			HH3	07/11/25	0939	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.606	+/-0.363	0.447	1.00	pCi/L			RS2	07/13/25	0937	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.8	(15%-125%)

Notes:
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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

QC Summary

Report Date: July 29, 2025

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

Workorder: **731157**

Parmname			NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Rad Gas Flow													
Batch 2822944													
QC1206157292	LCS												
Radium-228			27.5			29.1	pCi/L			106	(75%-125%)	HH3	07/11/25 09:40
			Uncertainty			+/-1.56							
QC1206158814	LCSD												
Radium-228			27.5			33.3	pCi/L	13.7		121	(0%-20%)		07/11/25 09:40
			Uncertainty			+/-1.95							
QC1206157290	MB												
Radium-228						0.798	pCi/L						07/11/25 09:40
			Uncertainty			+/-0.383							
Rad Ra-226													
Batch 2824332													
QC1206159774	731146001	DUP											
Radium-226				4.86		3.77	pCi/L	25.2	*		(0%-20%)	RS2	07/13/25 09:37
			Uncertainty	+/-1.03		+/-0.776							
QC1206159776	LCS												
Radium-226			27.1			26.9	pCi/L			99	(75%-125%)		07/13/25 09:37
			Uncertainty			+/-2.34							
QC1206159773	MB												
Radium-226					U	0.282	pCi/L						07/13/25 09:37
			Uncertainty			+/-0.344							
QC1206159775	731146001	MS											
Radium-226			133	4.86		128	pCi/L			92.4	(75%-125%)		07/13/25 09:37
			Uncertainty	+/-1.03		+/-9.77							

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **731157**

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

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 731157

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2822944

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

GEL Sample ID#	Client Sample Identification
731157001	AG36902
731157002	AG36872
731157003	AG36928
731157004	AG36873
731157005	AG36911
731157006	AG36871
731157007	AG36878
731157008	AG36914
731157009	AG36930
731157010	AG36912
1206157290	Method Blank (MB)
1206157292	Laboratory Control Sample (LCS)
1206158814	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1206157290 (MB)	Radium-228	Result: 0.798 pCi/L > MDA: 0.518 pCi/L <= RDL: 1.00 pCi/L

Technical Information

Recounts
Sample 731157006 (AG36871) was recounted due to results more negative than the three sigma TPU. The second count is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2824332

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

GEL Sample ID#	Client Sample Identification
731157001	AG36902
731157002	AG36872
731157003	AG36928
731157004	AG36873
731157005	AG36911
731157006	AG36871
731157007	AG36878
731157008	AG36914
731157009	AG36930
731157010	AG36912
1206159773	Method Blank (MB)
1206159774	731146001(AG36881) Sample Duplicate (DUP)
1206159775	731146001(AG36881) Matrix Spike (MS)
1206159776	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1206159774 (AG36881DUP)	Radium-226	RPD 25.2* (0.00%-20.00%) RER 1.24 (0-3)

Miscellaneous Information

Additional Comments
The matrix spike, 1206159775 (AG36881MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): ___/___/___ Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

731157

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.GP1.1 / 36500

Rerun request for any flagged Q: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228			
AG36902	WAP-24	6/26/25	1209	AGP EA		P	G	GW	2		X			
AG36872	WAP-2	6/25/25	1422											
AG36928	WAP-2F		1427											
AG36873	WAP-2R		1511											
AG36911	WBW-1		0947											
AG36871	WAP-1		1046											
AG36878	WAP-7		1215											
AG36914	WLF-A1-2	6/25/25	1323											
AG36930	WLF-A1-2F		1328											
AG36912	WBW-A1-1	6/23/25	1328											

Metals
- Arsenic
- Boron
- Calcium
- Chloride
- Chromium
- Fluoride
- Iron
- Lead
- Lithium
- Magnesium
- Manganese
- Mercury
- Molybdenum
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Strontium
- Sulfate
- Thallium
- Vanadium
- Zinc

Cyanide
- Available
- Total
- Amenable
- Sulfide
- Oil & Grease
- Phenolics
- Solids
- pH
- Chloride
- Fluoride
- Sulfate
- TSS

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
  - BTUs
- Ultimate
  - Volatile Matter
  - CHN
  - HGI
- Other Analysis:
  - Fineness
  - Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Radionuclides
- Gross Alpha
- Gross Beta
- Ra 226
- Ra 228
- Th 230
- Th 232
- U 234
- U 235
- U 238

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Dissolved Gas
- Ar
- CH4
- CO2
- C2H4
- C2H6
- H2
- N2
- O2

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	[signature]	GEL	7/1/25	0950
[signature]	GEL	[signature]	GEL	7.1.25	1620/1650

Sample Receiving (Internal Use Only)

TEMP (°C): ___

Initials: ___

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order:	GEL PM:
Received By: KE	Date Received at GEL: 070125	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-24 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
COOLER	2°				
COOLER	22°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff 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	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?			✓	IDs and tests affected: 24 Ammonia test 125 plastic ml
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments: DUP containers AG33120-DUP and AG33676-DUP do not have times

PM (or PMA) review: Initials CR Date 7/2/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 29 July 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

March 24, 2025

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

Re: ABS Lab Analytical
Work Order: 710235

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 21, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 125915/JM02.09.G01.1/36500
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 710235 GEL Work Order: 710235

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

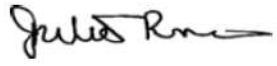
J Value is estimated

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

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25164	Project:	SOOP00119
Sample ID:	710235001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 11:18		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		2.73	0.0670	0.200	mg/L		1	CH6	02/22/25	1126	2754790	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		6.56	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25121	Project:	SOOP00119
Sample ID:	710235002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 12:29		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Sulfate		41.4	13.3	40.0	mg/L		100	CH6	02/21/25	2130	2754790	1
Chloride		8.58	0.0670	0.200	mg/L		1	CH6	02/22/25	1156	2754790	2
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25122	Project:	SOOP00119
Sample ID:	710235003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 14:09		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		86.6	6.70	20.0	mg/L		100	CH6	02/21/25	2201	2754790	1
Sulfate		175	13.3	40.0	mg/L		100					
Fluoride	J	0.0854	0.0330	0.100	mg/L		1	CH6	02/22/25	1227	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25123	Project:	SOOP00119
Sample ID:	710235004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 13:45		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	CH6	02/22/25	1258	2754790	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25124	Project:	SOOP00119
Sample ID:	710235005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 15:40		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		246	6.70	20.0	mg/L		100	CH6	02/22/25	0005	2754790	1
Sulfate		329	13.3	40.0	mg/L		100					
Fluoride	J	0.0653	0.0330	0.100	mg/L		1	CH6	02/22/25	1329	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25145	Project:	SOOP00119
Sample ID:	710235006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 09:33		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		260	6.70	20.0	mg/L		100	CH6	02/22/25	0035	2754790	1
Sulfate		264	13.3	40.0	mg/L		100					
Fluoride		0.198	0.0330	0.100	mg/L		1	CH6	02/22/25	1400	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Report Date: March 24, 2025

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

Client Sample ID:	AG25144	Project:	SOOP00119
Sample ID:	710235007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 11:33		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		823	13.4	40.0	mg/L		200	CH6	02/22/25	0106	2754790	1
Sulfate		486	26.6	80.0	mg/L		200					
Fluoride		0.345	0.0330	0.100	mg/L		1	CH6	02/22/25	0341	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25127	Project:	SOOP00119
Sample ID:	710235008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 10:45		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		28.5	6.70	20.0	mg/L		100	CH6	02/22/25	0137	2754790	1
Sulfate	J	0.262	0.133	0.400	mg/L		1	CH6	02/22/25	1431	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25126	Project:	SOOP00119
Sample ID:	710235009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 12:30		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		6.72	0.0670	0.200	mg/L		1	CH6	02/22/25	1502	2754790	1
Fluoride	J	0.0881	0.0330	0.100	mg/L		1					
Sulfate		6.34	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: March 24, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **710235**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2754790												
QC1206015137 710235009 DUP												
Chloride			6.72		6.70	mg/L	0.191			(0%-20%)	CH6	02/22/25 15:32
Fluoride		J	0.0881	J	0.0910	mg/L	3.24	^		(+/-0.100)		
Sulfate			6.34		6.37	mg/L	0.441			(0%-20%)		
QC1206015134 LCS												
Chloride	5.00				4.80	mg/L			96.1	(90%-110%)		02/21/25 18:25
Fluoride	2.50				2.42	mg/L			96.8	(90%-110%)		
Sulfate	10.0				9.88	mg/L			98.8	(90%-110%)		
QC1206015133 MB												
Chloride				U	0.0670	mg/L						02/21/25 17:55
Fluoride				U	0.0330	mg/L						
Sulfate				U	0.133	mg/L						
QC1206015138 710235009 PS												
Chloride	5.00		6.72		12.4	mg/L			113 *	(90%-110%)		02/22/25 16:03
Fluoride	2.50	J	0.0881		2.61	mg/L			101	(90%-110%)		
Sulfate	10.0		6.34		16.8	mg/L			105	(90%-110%)		

QC Summary

Workorder: **710235**

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

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
N1	See case narrative
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25164	Project:	SOOP00119
Sample ID:	710235001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 11:18		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.847	+/-0.794	1.31	1.00	pCi/L			DH1	03/23/25	1326	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.607	+/-0.315	0.374	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.9	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25121	Project:	SOOP00119
Sample ID:	710235002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 12:29		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.00	+/-0.554	0.802	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.883	+/-0.382	0.353	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			59.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25122	Project:	SOOP00119
Sample ID:	710235003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 14:09		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.650	+/-0.457	0.709	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.955	+/-0.362	0.406	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.2	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25123	Project:	SOOP00119
Sample ID:	710235004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 13:45		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.942	+/-0.578	0.846	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.559	+/-0.321	0.386	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.5	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25124	Project:	SOOP00119
Sample ID:	710235005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	18-FEB-25 15:40		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.907	+/-0.409	0.524	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.86	+/-0.438	0.244	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25145	Project:	SOOP00119
Sample ID:	710235006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 09:33		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.20	+/-0.431	0.542	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.05	+/-0.444	0.516	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			89	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25144	Project:	SOOP00119
Sample ID:	710235007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 11:33		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.32	+/-0.594	0.631	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.25	+/-0.513	0.364	1.00	pCi/L			MJ2	03/19/25	1048	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2025

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

Client Sample ID:	AG25126	Project:	SOOP00119
Sample ID:	710235009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	19-FEB-25 12:30		
Receive Date:	21-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.311	+/-0.337	0.560	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.442	+/-0.281	0.397	1.00	pCi/L			MJ2	03/19/25	1048	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.6	(15%-125%)

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: March 24, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **710235**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2755133										
QC1206015937 710235001 DUP										
Radium-228	U	0.847	U	0.202	pCi/L	N/A		N/A	DH1	03/23/25 13:25
	Uncertainty	+/-0.794		+/-0.532						
QC1206015938 LCS										
Radium-228	28.2			26.4	pCi/L		93.5	(75%-125%)		03/23/25 11:23
	Uncertainty			+/-1.89						
QC1206015936 MB										
Radium-228			U	-0.0977	pCi/L					03/23/25 11:23
	Uncertainty			+/-0.328						
Rad Ra-226										
Batch 2756236										
QC1206018252 710235001 DUP										
Radium-226		0.607	U	0.637	pCi/L	4.85		(0% - 100%)	MJ2	03/19/25 11:20
	Uncertainty	+/-0.315		+/-0.538						
QC1206018254 LCS										
Radium-226	27.3			22.8	pCi/L		83.3	(75%-125%)		03/19/25 11:20
	Uncertainty			+/-2.17						
QC1206018251 MB										
Radium-226			U	0.309	pCi/L					03/19/25 11:20
	Uncertainty			+/-0.303						
QC1206018253 710235001 MS										
Radium-226	136	0.607		115	pCi/L		84.3	(75%-125%)		03/19/25 11:20
	Uncertainty	+/-0.315		+/-11.6						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **710235**

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

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

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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2754790

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

GEL Sample ID#	Client Sample Identification
710235001	AG25164
710235002	AG25121
710235003	AG25122
710235004	AG25123
710235005	AG25124
710235006	AG25145
710235007	AG25144
710235008	AG25127
710235009	AG25126
1206015133	Method Blank (MB)
1206015134	Laboratory Control Sample (LCS)
1206015137	710235009(AG25126) Sample Duplicate (DUP)
1206015138	710235009(AG25126) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1206015138 (AG25126PS)	113* (90%-110%)

Technical Information

Sample Dilutions
Samples 1206015137 (AG25126DUP), 1206015138 (AG25126PS), 710235001 (AG25164), 710235002 (AG25121), 710235003 (AG25122), 710235004 (AG25123), 710235005 (AG25124), 710235006 (AG25145), 710235007

(AG25144), 710235008 (AG25127) and 710235009 (AG25126) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	710235					
	002	003	005	006	007	008
Chloride	1X	100X	100X	100X	200X	100X
Sulfate	100X	100X	100X	100X	200X	1X

Miscellaneous Information

Manual Integrations
Samples 1206015137 (AG25126DUP) and 710235009 (AG25126) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: GFPC, Ra228, Liquid
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2755133

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

GEL Sample ID#	Client Sample Identification
710235001	AG25164
710235002	AG25121
710235003	AG25122
710235004	AG25123
710235005	AG25124
710235006	AG25145
710235007	AG25144
710235009	AG25126
1206015936	Method Blank (MB)
1206015937	710235001(AG25164) Sample Duplicate (DUP)
1206015938	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206015937 (AG25164DUP), 710235001 (AG25164) and 710235004 (AG25123) Aliquots were reduced due to limited sample volume.

Quality Control (QC) Information

RDL Met
The following RDL was met with rounding.

Sample	Analyte	Value
710235001 (AG25164)	Radium-228	Result 0.847 < MDA 1.31 > RDL 1 pCi/L

Technical Information

Recounts
Samples 1206015937 (AG25164DUP) and 710235001 (AG25164) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2756236

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

GEL Sample ID#	Client Sample Identification
710235001	AG25164
710235002	AG25121
710235003	AG25122
710235004	AG25123
710235005	AG25124
710235006	AG25145
710235007	AG25144
710235009	AG25126
1206018251	Method Blank (MB)
1206018252	710235001(AG25164) Sample Duplicate (DUP)
1206018253	710235001(AG25164) Matrix Spike (MS)
1206018254	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206018253 (AG25164MS) Aliquot was reduced due to limited sample volume.

Certification Statement

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

3/28/25 – RAD

710235

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 3 / 25 Send report to lcwillis@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4	Cl, SO4	
AG25164	WBW-1	2/18/25	1118	NDS DCA	3	P	G	GW	2/1		2	1	0	
21	WAP-1		1229											
AG25122	WAP-2		1409		1									
23	WAP-2F		1345		2					ONLY ONE BOTTLE FOR RAD 226 + 228.	1	1	0	
24	WAP-2R		1540		3						2	1	0	
AG25145	WAP-16	2/19/25	0933	ATH DCA	3									
44	WAP-15		1133		1									
AG25127	WAP-5		1045		1						0	0	1	
AG25126	WAP-4		1230		3						2	1	0	

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TP/TPO4
- ☐ NH3-N
- ☐ F
- ☐ Cl
- ☐ NO2
- ☐ Br
- ☐ NO3
- ☐ SO4

Gypsum
- ☐ Wallboard
- ☐ AIM
- ☐ TOC
- ☐ Total metals
- ☐ Soluble Metals
- ☐ Purity (CaSO4)
- ☐ % Moisture
- ☐ Sulfites
- ☐ pH
- ☐ Chlorides
- ☐ Particle Size
- ☐ Sulfur
- ☐ USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI
- **Other Analysis:**
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	2/21/25	0936
DCP	GEL		GEL	2-21-25	1600

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOUP	SDG/AR/COC/Work Order: 710235	GEL PM:
Received By: QG	Date Received at GEL: 2/21/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	17c	rchem			
2	0c				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff 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	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice (None) Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	Client uses GEL labels and their own.
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials AW Date 2/24/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 24 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

April 10, 2025

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

Re: ABS Lab Analytical
Work Order: 714408

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 14, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 714408 GEL Work Order: 714408

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

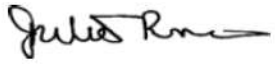
J Value is estimated

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

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

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

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

Reviewed by 

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25154	Project:	SOOP00119
Sample ID:	714408001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 09:45		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.404	0.0330	0.100	mg/L		1	CH6	03/15/25	1217	2766282	1
Chloride		356	3.35	10.0	mg/L		50	CH6	03/17/25	1311	2766282	2
Sulfate		308	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25155	Project:	SOOP00119
Sample ID:	714408002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 14:39		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0362	0.0330	0.100	mg/L		1	CH6	03/15/25	1349	2766282	1
Chloride		111	1.34	4.00	mg/L		20	CH6	03/17/25	1443	2766282	2
Sulfate		40.3	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25163	Project:	SOOP00119
Sample ID:	714408003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 11:49		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0456	0.0330	0.100	mg/L		1	CH6	03/15/25	1522	2766282	1
Chloride		171	3.35	10.0	mg/L		50	CH6	03/17/25	1616	2766282	2
Sulfate		81.9	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25159	Project:	SOOP00119
Sample ID:	714408004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 10:43		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.101	0.0330	0.100	mg/L		1	CH6	03/15/25	1553	2766282	1
Chloride		235	3.35	10.0	mg/L		50	CH6	03/17/25	1647	2766282	2
Sulfate		35.7	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25178	Project:	SOOP00119
Sample ID:	714408005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 09:50		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0498	0.0330	0.100	mg/L		1	CH6	03/15/25	1725	2766282	1
Chloride		51.4	1.34	4.00	mg/L		20	CH6	03/17/25	1718	2766282	2
Sulfate		180	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Report Date: April 10, 2025

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

Client Sample ID:	AG25179	Project:	SOOP00119
Sample ID:	714408006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 09:55		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0496	0.0330	0.100	mg/L		1	CH6	03/15/25	1756	2766282	1
Chloride		65.0	1.34	4.00	mg/L		20	CH6	03/17/25	1749	2766282	2
Sulfate		221	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25180	Project:	SOOP00119
Sample ID:	714408007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 10:25		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.184	0.0330	0.100	mg/L		1	CH6	03/15/25	1827	2766282	1
Chloride		57.5	1.34	4.00	mg/L		20	CH6	03/17/25	1921	2766282	2
Sulfate		255	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG2581	Project:	SOOP00119
Sample ID:	714408008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 10:30		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.187	0.0330	0.100	mg/L		1	CH6	03/15/25	1858	2766282	1
Chloride		57.5	1.34	4.00	mg/L		20	CH6	03/17/25	1952	2766282	2
Sulfate		259	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25156	Project:	SOOP00119
Sample ID:	714408009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 14:41		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0636	0.0330	0.100	mg/L		1	CH6	03/15/25	1929	2766282	1
Sulfate	J	0.241	0.133	0.400	mg/L		1					
Chloride		10.8	0.134	0.400	mg/L		2	CH6	03/17/25	2023	2766282	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25157	Project:	SOOP00119
Sample ID:	714408010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 13:00		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0341	0.0330	0.100	mg/L		1	CH6	03/15/25	2000	2766282	1
Chloride		11.8	0.335	1.00	mg/L		5	CH6	03/17/25	2054	2766282	2
Sulfate		53.7	0.665	2.00	mg/L		5					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25158	Project:	SOOP00119
Sample ID:	714408011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 13:05		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	U	0.0330	0.0330	0.100	mg/L		1	CH6	03/15/25	2031	2766282	1
Chloride		10.3	0.335	1.00	mg/L		5	CH6	03/17/25	2125	2766282	2
Sulfate		49.0	0.665	2.00	mg/L		5					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25136	Project:	SOOP00119
Sample ID:	714408012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 11:25		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0481	0.0330	0.100	mg/L		1	CH6	03/15/25	2101	2766282	1
Chloride		893	6.70	20.0	mg/L		100	CH6	03/17/25	2156	2766282	2
Sulfate		1030	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25137	Project:	SOOP00119
Sample ID:	714408013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 11:30		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0473	0.0330	0.100	mg/L		1	CH6	03/15/25	2132	2766282	1
Chloride		581	6.70	20.0	mg/L		100	CH6	03/17/25	2226	2766282	2
Sulfate		708	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG27580	Project:	SOOP00119
Sample ID:	714408015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 09:18		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	U	0.0330	0.0330	0.100	mg/L		1	CH6	03/15/25	2203	2766282	1
Chloride		82.4	1.34	4.00	mg/L		20	CH6	03/17/25	2257	2766282	2
Sulfate		25.9	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: April 10, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **714408**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2766282										
QC1206038538 714408001 DUP										
Chloride		356		356	mg/L	0.0787		(0%-20%)	CH6	03/17/25 13:42
Fluoride		0.404		0.498	mg/L	20.9	^	(+/-0.100)		03/15/25 12:48
Sulfate		308		308	mg/L	0.0715		(0%-20%)		03/17/25 13:42
QC1206038540 714408002 DUP										
Chloride		111		111	mg/L	0.399		(0%-20%)		03/17/25 15:14
Fluoride	J	0.0362	J	0.0383	mg/L	5.64	^	(+/-0.100)		03/15/25 14:20
Sulfate		40.3		40.4	mg/L	0.352		(0%-20%)		03/17/25 15:14
QC1206038537 LCS										
Chloride	5.00			4.71	mg/L		94.2	(90%-110%)		03/15/25 11:39
Fluoride	2.50			2.45	mg/L		98.1	(90%-110%)		
Sulfate	10.0			9.66	mg/L		96.6	(90%-110%)		
QC1206038536 MB										
Chloride			U	0.0670	mg/L					03/15/25 11:09
Fluoride			U	0.0330	mg/L					
Sulfate			U	0.133	mg/L					

QC Summary

Workorder: **714408**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2766282											
QC1206038539 714408001 PS											
Chloride	5.00		7.11		12.7	mg/L		112*	(90%-110%)	CH6	03/17/25 14:13
Fluoride	2.50		0.404		3.06	mg/L		106	(90%-110%)		03/15/25 13:18
Sulfate	10.0		6.15		16.2	mg/L		100	(90%-110%)		03/17/25 14:13
QC1206038541 714408002 PS											
Chloride	5.00		5.55		11.0	mg/L		110	(90%-110%)		03/17/25 15:45
Fluoride	2.50	J	0.0362		2.71	mg/L		107	(90%-110%)		03/15/25 14:51
Sulfate	10.0		2.01		11.8	mg/L		97.7	(90%-110%)		03/17/25 15:45

Notes:

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **714408**

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

N1 See case narrative

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

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25154	Project:	SOOP00119
Sample ID:	714408001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 09:45		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.819	+/-0.587	0.917	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.53	+/-0.550	0.566	1.00	pCi/L			RS2	04/10/25	0846	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.7	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID:	AG25155	Project:	SOOP00119
Sample ID:	714408002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 14:39		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.102	+/-0.446	0.808	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.538	+/-0.422	0.595	1.00	pCi/L			RS2	04/10/25	0846	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.1	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25163	Project:	SOOP00119
Sample ID:	714408003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 11:49		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.952	+/-0.399	0.478	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.665	+/-0.324	0.283	1.00	pCi/L			RS2	04/10/25	0845	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.1	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25159	Project:	SOOP00119
Sample ID:	714408004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-MAR-25 10:43		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.05	+/-0.503	0.719	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.15	+/-0.469	0.353	1.00	pCi/L			RS2	04/10/25	0845	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25178	Project:	SOOP00119
Sample ID:	714408005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 09:50		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.409	+/-0.343	0.547	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.489	+/-0.338	0.463	1.00	pCi/L			RS2	04/10/25	0845	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.2	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25179	Project:	SOOP00119
Sample ID:	714408006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 09:55		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.499	+/-0.380	0.591	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.227	+/-0.209	0.289	1.00	pCi/L			RS2	04/10/25	0845	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25180	Project:	SOOP00119
Sample ID:	714408007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 10:25		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.234	+/-0.290	0.493	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.723	+/-0.363	0.325	1.00	pCi/L			RS2	04/10/25	0845	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.4	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG2581	Project:	SOOP00119
Sample ID:	714408008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 10:30		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.785	+/-0.393	0.556	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.953	+/-0.449	0.479	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.1	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25156	Project:	SOOP00119
Sample ID:	714408009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 14:41		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.178	+/-0.421	0.756	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.452	+/-0.376	0.556	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			65.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25157	Project:	SOOP00119
Sample ID:	714408010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 13:00		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.00	+/-0.536	0.801	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.600	+/-0.367	0.383	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.9	(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
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

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

Client Sample ID:	AG25158	Project:	SOOP00119
Sample ID:	714408011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 13:05		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.578	+/-0.369	0.546	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.589	+/-0.330	0.322	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.3	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Client Sample ID:	AG25136	Project:	SOOP00119
Sample ID:	714408012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 11:25		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.71	+/-0.773	0.887	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.08	+/-0.605	0.406	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.6	(15%-125%)

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

Column headers are defined as follows:

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

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

Client Sample ID:	AG25137	Project:	SOOP00119
Sample ID:	714408013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 11:30		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.81	+/-0.739	0.754	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.56	+/-0.553	0.582	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.9	(15%-125%)

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

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG25152	Project:	SOOP00119
Sample ID:	714408014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-MAR-25 13:08		
Receive Date:	14-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.640	+/-0.361	0.510	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.472	+/-0.393	0.602	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.2	(15%-125%)

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

Column headers are defined as follows:

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

QC Summary

Report Date: April 10, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **714408**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2766914										
QC1206040100 714408001 DUP										
Radium-228	U	0.819	U	0.568	pCi/L	N/A		N/A	JE1	04/05/25 13:41
	Uncertainty	+/-0.587		+/-0.414						
QC1206040101 LCS										
Radium-228	28.3			28.8	pCi/L		102	(75%-125%)		04/05/25 13:41
	Uncertainty			+/-1.70						
QC1206040099 MB										
Radium-228			U	0.0175	pCi/L					04/05/25 13:41
	Uncertainty			+/-0.459						
Rad Ra-226										
Batch 2770380										
QC1206047014 714380001 DUP										
Radium-226	U	0.293		0.373	pCi/L	24.1		(0% - 100%)	RS2	04/10/25 09:50
	Uncertainty	+/-0.318		+/-0.269						
QC1206047015 714408002 DUP										
Radium-226	U	0.538		0.539	pCi/L	0.062		(0% - 100%)		04/10/25 09:50
	Uncertainty	+/-0.422		+/-0.337						
QC1206047018 LCS										
Radium-226	27.2			32.6	pCi/L		120	(75%-125%)		04/10/25 09:50
	Uncertainty			+/-2.55						
QC1206047013 MB										
Radium-226			U	0.469	pCi/L					04/10/25 09:19
	Uncertainty			+/-0.511						
QC1206047016 714380001 MS										
Radium-226	137 U	0.293		151	pCi/L		110	(75%-125%)		04/10/25 09:50
	Uncertainty	+/-0.318		+/-12.3						
QC1206047017 714408002 MS										
Radium-226	128 U	0.538		130	pCi/L		101	(75%-125%)		04/10/25 09:50
	Uncertainty	+/-0.422		+/-9.74						

Notes:

QC Summary

Workorder: **714408**

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

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).
The Qualifiers in this report are defined as follows:

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Technical Case Narrative
Santee Cooper
SDG #: 714408

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2766282

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

GEL Sample ID#	Client Sample Identification
714408001	AG25154
714408002	AG25155
714408003	AG25163
714408004	AG25159
714408005	AG25178
714408006	AG25179
714408007	AG25180
714408008	AG2581
714408009	AG25156
714408010	AG25157
714408011	AG25158
714408012	AG25136
714408013	AG25137
714408015	AG27580
1206038536	Method Blank (MB)
1206038537	Laboratory Control Sample (LCS)
1206038538	714408001(AG25154) Sample Duplicate (DUP)
1206038539	714408001(AG25154) Post Spike (PS)
1206038540	714408002(AG25155) Sample Duplicate (DUP)
1206038541	714408002(AG25155) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1206038539 (AG25154PS)	112* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1206038538 (AG25154DUP), 1206038539 (AG25154PS), 1206038540 (AG25155DUP), 1206038541 (AG25155PS), 714408001 (AG25154), 714408002 (AG25155), 714408003 (AG25163), 714408004 (AG25159), 714408005 (AG25178), 714408006 (AG25179), 714408007 (AG25180), 714408008 (AG2581), 714408009 (AG25156), 714408010 (AG25157), 714408011 (AG25158), 714408012 (AG25136), 714408013 (AG25137) and 714408015 (AG27580) 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.

Analyte	714408									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Chloride	50X	20X	50X	50X	20X	20X	20X	20X	2X	5X
Sulfate	50X	20X	50X	50X	20X	20X	20X	20X	1X	5X

Analyte	714408			
	011	**012**	**013**	**015**
Chloride	5X	100X	100X	20X
Sulfate	5X	100X	100X	20X

Miscellaneous Information

Manual Integrations
Samples 1206038540 (AG25155DUP), 1206038541 (AG25155PS), 714408002 (AG25155), 714408003 (AG25163), 714408004 (AG25159), 714408005 (AG25178), 714408006 (AG25179), 714408007 (AG25180), 714408008 (AG2581), 714408009 (AG25156), 714408010 (AG25157), 714408012 (AG25136) and 714408013 (AG25137) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2766914

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

GEL Sample ID#	Client Sample Identification
714408001	AG25154
714408002	AG25155
714408003	AG25163
714408004	AG25159
714408005	AG25178
714408006	AG25179
714408007	AG25180
714408008	AG2581
714408009	AG25156
714408010	AG25157

714408011	AG25158
714408012	AG25136
714408013	AG25137
714408014	AG25152
1206040099	Method Blank (MB)
1206040100	714408001(AG25154) Sample Duplicate (DUP)
1206040101	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Sample 714408014 (AG25152) was non-homogenous matrix.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2770380

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

GEL Sample ID#	Client Sample Identification
714408001	AG25154
714408002	AG25155
714408003	AG25163
714408004	AG25159
714408005	AG25178
714408006	AG25179
714408007	AG25180
714408008	AG2581
714408009	AG25156
714408010	AG25157
714408011	AG25158
714408012	AG25136
714408013	AG25137
714408014	AG25152
1206047013	Method Blank (MB)
1206047014	714380001(NonSDG) Sample Duplicate (DUP)
1206047015	714408002(AG25155) Sample Duplicate (DUP)
1206047016	714380001(NonSDG) Matrix Spike (MS)
1206047017	714408002(AG25155) Matrix Spike (MS)
1206047018	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 spikes, 1206047016 (Non SDG 714380001MS) and 1206047017 (AG25155MS), aliquots were reduced to conserve sample volume.

Certification Statement

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

4/14/25 - RAD 714408

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 24 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG 25154	WAP-23	3/6/25	0945	MDG DA	3	P	G	GW	2 & 1		2	1		
55	WAP-24	"	1439	"	3	"	"	"	"		2	1		
63	WAP-30	"	1147	"	3	"	"	"	"		2	1		
AG 25159	WAP-27	3/6/25	1043	MDG DA	3	"	"	"	"		2	1		
AG 25178	WAP 2BP SW-1	3/7/25	0950	MDG DA	3	"	"	"	"		2	1		
79	WAP 2 BP SW-1 DUP	"	0955	"	3	"	"	"	"		2	1		
80	WAP 2 DITCH SW-1	"	1025	"	3	"	"	"	"		2	1		
81	WAP-2 DITCH SW-1 DUP	"	1030	"	3	"	"	"	"		2	1		
AG 25156	WAP-25	3/7/25	1441	MDG DA	3	"	"	"	"		2	1		
57	WAP-26	"	1300	"	3	"	"	"	"		2	1		

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	☐ Acidity	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ Soluble Metals	☐ BTUs	☐ Sieve	☐ Dielectric Strength	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ Purity (CaSO4)	Ultimate	☐ % Moisture	☐ IFT	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ % Moisture	☐ Volatile Matter		☐ Dissolved Gases	☐ pH	☐ Ti ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES	☐ Used Oil	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ Flashpoint	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter		☐ GOFER	☐ PCB	
	☐ USDA					

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	36851	[signature]	COURIER	3/14/25	0900
[signature]	[signature]	[signature]	GEL	3-14-25	1705

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

4/14/25 - RAD

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 24 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com **Date Results Needed by:** ___/___/___ **Project/Task/Unit #:** 125915 / JM02.09.G01.1 / 36500 **Rerun request for any flagged QC** (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO_4		
AG25158	WAP-26 DUP	3/7/25	1305	MDG DA	3	P	G	GW	2 1		2	—		
AG25136	WAP-12	3/7/25	1125	"	3	"	"	"	2 1		2	1		
" 37	WAP-12 DUP	3/7/25	1130	"	3	"	"	"	2 1		2	1		
" 52	WAP-21	3/6/25	1308	"	2	"	"	"	2		2	0		
AG27580	WAP-21	3/7/25	0918	"	1	"	"	"	1		0	1		

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	☐ Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	☐ Acidity	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ Soluble Metals	☐ BTUs	☐ Sieve	☐ Dielectric Strength	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ Purity (CaSO4)	Ultimate	☐ % Moisture	☐ IFT	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ % Moisture	☐ Volatile Matter		☐ Dissolved Gases	☐ pH	☐ Ti ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES	☐ Used Oil	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ Flashpoint	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter		☐ GOFER	☐ PCB	
	☐ USDA					

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Jamie Hu	36851	[signature]	COURIER	3/14/25	1515
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	GEL	[signature]	GEL	3-14-25	1709
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 714408	GEL PM:
Received By: QG	Date Received at GEL: 3/14/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0c				
2	2cc	rchem			

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff 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	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice (None) Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials MG Date 3/17/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 10 April 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Field Data Sheets

(Note: color coding is to assist with stabilization of the field parameters prior to sample collection)

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WBW - 1	**31.97**	7.93	**7- 17**	2/18/2025	1118	19.86
Final GW Depth:	8.01	**depth to GW (ft)**		1.96	**Screen Submerged (ft)?**	
Drawdown:	0.08	**ft**		0.031	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	0.2	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1047	16.21	5.47	213	43	19.1	4.51
1052	15.43	4.51	259	37	20.6	3.63
1057	15.32	4.32	278	36	18.2	3.41
1102	15.28	4.27	291	36	15.4	3
1107	15.21	4.23	300	35	12.5	2.82
1112	15.25	4.2	309	37	10.9	2.73
1115	15.22	4.17	314	37	9.7	2.66
1118	15.25	4.16	318	37	8.8	2.56

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 1	**29.44**	5.85	**4- 24**	2/18/2025	1229	25.25

Final GW Depth:	5.91	**depth to GW (ft)**	0.54	**Screen Submerged (ft)?**	
Drawdown:	0.06	**ft**	1.14	**Silt Buildup (ft)**	
Ferric Iron:	2.68	**mg/L**	15	**Tubing Length (ft)**	
Ferrous Iron:	1.44	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1158	16.53	4.19	71	103	9.1	5.64
1203	17.21	4.37	9	99	1.1	0.94
1208	17.42	4.44	-11	98	0	0.72
1213	17.93	4.52	-25	98	0.1	0.61
1218	18.06	4.56	-30	97	0.1	0.59
1223	18.39	4.62	-39	96	0.3	0.52
1226	18.41	4.62	-40	95	0.5	0.5
1229	18.5	4.63	-42	96	0.2	0.5

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 2	**23.69**	7.32	**4- 24**	2/18/2025	1409	27.33
Final GW Depth:	7.57	**depth to GW (ft)**		-0.92	**Screen Submerged (ft)?**	
Drawdown:	0.25	**ft**		-0.93	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1335	19.67	5.63	20	726	11	4.08
1340	19.38	5.78	-46	712	15.3	0.69
1345	18.76	5.8	-60	719	10.2	0.56
1350	18.26	5.79	-67	732	13.1	0.52
1355	18.06	5.81	-73	743	10.5	0.51
1400	17.91	5.82	-77	743	13.1	0.5
1403	17.79	5.82	-79	744	11.1	0.48
1406	17.72	5.82	-81	749	11.1	0.48
1409	17.68	5.83	-83	746	11.5	0.48

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions: Field Blank collected at 1345

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 3	**19.43**	8.76	**4- 24**	2/24/2025	1115	25.09
Final GW Depth:	9.16	**depth to GW (ft)**		-2.25	**Screen Submerged (ft)?**	
Drawdown:	0.4	**ft**		1.42	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	3.01	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1023	17.75	6.64	40	700	66.3	10.82
1028	17.55	5.9	62	733	3.75	7.14
1033	17.57	5.94	45	896	53.5	6.43
1038	17.64	6.02	30	1040	24.6	6.11
1043	17.73	6.07	23	1120	18.5	5.88
1048	17.93	6.14	18	1130	16.6	5.65
1051	17.89	6.11	15	1200	15.9	5.54
1054	18.19	6.13	13	1210	40.9	5.35
1057	18.6	6.15	11	1250	20.4	5.14
1100	18.57	6.17	9	1290	12.7	5.06
1103	18.5	6.18	7	1310	10.9	4.96
1106	18.4	6.19	6	1320	12.2	4.88
1109	18.81	6.21	4	1350	10.4	4.68
1112	18.92	6.22	2	1380	10.7	4.57
1115	18.83	6.23	3	1380	10.6	4.49

Samples were collected by Aaron Hill and Steve Brown

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 12	**30.84**	9.56	**9- 19**	3/7/2025	1125	22.15
Final GW Depth:	10.08	**depth to GW (ft)**		2.54	**Screen Submerged (ft)?**	
Drawdown:	0.52	**ft**		-0.05	**Silt Buildup (ft)**	
Ferric Iron:	0.81	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	0.67	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1054	17.02	4.3	311	3860	11.1	4.38
1059	17.12	4.36	346	3880	14	1.89
1104	17.39	3.47	322	3790	11.7	1.33
1109	17.48	4.38	299	3690	9	1.13
1114	17.53	4.39	383	3570	7.1	0.95
1119	17	4.4	271	3490	5.2	0.85
1122	17.51	4.39	269	3460	4.3	0.77
1125	17.71	4.4	266	3420	3.7	0.75

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
DUP at 1130

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 13	**21.97**	10.81	**8- 18**	2/24/2025	1341	21.68
Final GW Depth:	12.03	**depth to GW (ft)**		0.04	**Screen Submerged (ft)?**	
Drawdown:	1.22	**ft**		-0.831	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1310	20.58	6.55	-69	2250	13.5	9
1315	20.26	6.57	-89	2280	5.9	0.64
1320	19.96	6.58	-94	2300	4.7	0.41
1325	20.1	6.59	-98	2320	5	0.33
1330	20.15	6.6	-101	2330	4.5	0.29
1335	20.12	6.6	-103	2340	4.5	0.22
1338	20.14	6.6	-104	2360	4.6	0.22
1341	20.12	6.6	-104	2380	4.4	0.22

Samples were collected by Aaron Hill and Steve Brown

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 28	**23.09**	11.81	**8'-18'**	2/24/2025	1211	21.4
Final GW Depth:	11.97	**depth to GW (ft)**		-0.41	**Screen Submerged (ft)?**	
Drawdown:	0.16	**ft**		0	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**18**	**Tubing Length (ft)**	
Ferrous Iron:	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1140	20.25	5.68	67	902	19.2	3.86
1145	18.98	5.11	128	926	5.2	0.92
1150	19.25	5.1	127	918	4.9	0.76
1155	19.87	5.27	99	958	3.4	0.55
1200	19.96	5.33	85	1000	4.3	0.49
1205	20	5.37	78	1020	4.1	0.47
1208	20.06	5.37	74	1030	4.3	0.45
1211	20.07	5.43	70	1050	4	0.44

Samples were collected by Aaron Hill and Steve Brown

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WBW - 1	**31.97**	8.39	**7- 17**	6/25/2025	947	19.81
Final GW Depth:	8.39	**depth to GW (ft)**		1.5	**Screen Submerged (ft)?**	
Drawdown:	0	**ft**		0.08	**Silt Buildup (ft)**	
Ferric Iron:	0.31	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	0.2	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
922	21.41	4.66	244	40	52.5	2.38
927	22.9	3.78	315	35	50	1.93
932	23.27	3.71	335	35	31.3	1.89
937	23.53	3.75	331	36	8.2	1.68
942	23.75	3.78	334	36	2.7	1.58
947	24.05	3.78	338	36	2.1	1.54

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 1	**29.44**	6.19	**4- 24**	6/25/2025	1046	25.19

Final GW Depth:	6.24	**depth to GW (ft)**	0.2	**Screen Submerged (ft)?**	
Drawdown:	0.05	**ft**	1.2	**Silt Buildup (ft)**	
Ferric Iron:	0.92	**mg/L**	**15**	**Tubing Length (ft)**	
Ferrous Iron:	0.89	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1018	24.35	4.37	210	84	0.7	1.79
1023	24.87	4.27	176	88	0.4	0.54
1028	24.62	4.15	179	104	0	0.39
1033	24.72	4.21	173	104	0	0.35
1038	24.78	4.26	162	102	0	0.33
1043	24.45	4.29	153	101	0	0.32
1046	24.38	4.34	147	101	0	0.31

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 2	**23.69**	8.03	**4- 24**	6/25/2025	1422	27.01
Final GW Depth:	8.18	**depth to GW (ft)**		-1.63	**Screen Submerged (ft)?**	
Drawdown:	0.15	**ft**		-0.61	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1402	30.58	5.29	35	524	37.1	1.65
1407	27.76	5.59	-18	729	0	0.37
1412	26.92	5.61	-32	726	0	0.28
1417	26.33	5.61	-39	722	4.6	0.26
1422	26.35	5.62	-44	709	0	0.24

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:
Field Blanks were taken at 1427
Formatting Error field parameters are within accepted parameters

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 3	**19.43**	8.98	**4- 24**	6/26/2025	1424	24.94
Final GW Depth:	9.38	**depth to GW (ft)**		-2.47	**Screen Submerged (ft)?**	
Drawdown:	0.4	**ft**		1.57	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1350	23.8	5.8	65	655	63.1	1.69
1355	24.06	5.81	70	686	15	0.71
1400	23.92	5.84	65	833	11	0.52
1405	23.83	5.89	56	926	13.3	0.45
1410	23.69	5.94	49	1020	10	0.43
1415	23.71	5.96	43	1080	6.7	0.34
1418	23.69	5.98	40	1120	5.4	0.34
1421	23.66	5.99	38	1150	4.7	0.33
1424	23.64	6	36	1180	4.1	0.32

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 12	**30.84**	10.43	**9- 19**	7/10/2025	1339	21.82
Final GW Depth:	10.55	**depth to GW (ft)**		1.5	**Screen Submerged (ft)?**	
Drawdown:	0.12	**ft**		0.11	**Silt Buildup (ft)**	
Ferric Iron:	1.13	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	1.22	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1247	25.73	4.36	187	2060	0	3.03
1252	26.32	4.47	152	2070	2	1.87
1257	25.67	4.45	143	2090	4.4	2.31
1302	25.43	4.45	137	2080	6.2	1.42
1307	25.18	4.45	134	2090	6	0.95
1312	24.47	4.45	130	2130	1.8	0.87
1315	24.43	4.46	129	2140	0.6	1.18
1318	24.4	4.45	129	2130	0.2	1.15
1321	24.42	4.45	129	2140	0	0.74
1324	24.41	4.46	129	2150	0	0.45
1327	24.46	4.45	131	2150	0	1.19
1330	25.01	4.42	133	2160	0	1.87
1333	25.37	4.44	136	2160	0	2.07
1336	25.55	4.44	136	2160	0	2.05
1339	25.8	4.45	138	2160	0	2.05

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:
Dup was collected at 1344

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 13	**21.97**	10.29	**8- 18**	7/14/2025	1018	21.83
Final GW Depth:	10.91	**depth to GW (ft)**		0.56	**Screen Submerged (ft)?**	
Drawdown:	0.62	**ft**		-0.98	**Silt Buildup (ft)**	
Ferric Iron:	+++	**mg/L**		**15**	**Tubing Length (ft)**	
Ferrous Iron:	3.03	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
947	22.14	6.18	-59	1740	0	2.13
952	23.04	6.26	-82	1760	2.5	1.24
957	23.41	6.31	-93	1790	0	0.96
1002	23.69	6.38	-96	2240	0	0.79
1007	24.02	6.45	-95	2310	0	0.71
1012	24.51	6.48	-92	2470	0	0.68
1015	24.73	6.49	-92	2490	0	0.64
1018	24.93	6.48	-90	2450	0	0.62

Samples were collected by Aaron Hill and Evan Amick

Comments/Conditions: not trimmed around

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP - 28	23.09	11.74	8'-18'	7/14/2025	1134	21.35
Final GW Depth:	11.87	depth to GW (ft)		-0.34	Screen Submerged (ft)?	
Drawdown:	0.13	ft		0.05	Silt Buildup (ft)	
Ferric Iron:	+++	mg/L		18	Tubing Length (ft)	
Ferrous Iron:	+++	mg/L				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1057	26.1	5.52	64	737	7.2	3.38
1102	26.42	4.68	167	721	0	0.88
1107	26.52	4.67	184	711	0	0.75
1112	26.58	4.82	151	717	0.1	0.63
1117	26.61	5.03	123	725	0.1	0.54
1122	26.82	5.1	113	737	0.7	0.49
1125	26.92	5.16	106	748	0	0.47
1128	27.03	5.19	99	754	0	0.46
1131	27.22	5.22	94	758	0	0.44
1134	27.42	5.24	92	762	0	0.43

Samples were collected by Aaron Hill and Evan Amick

Comments/Conditions: