2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CLASS 3 LANDFILL CROSS GENERATING STATION

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Table of Contents **Page**

1. Annual Groundwater Monitoring Report Summary 1

2. 40 CFR §257.90 Applicability 1

2.1 40 CFR § 257.90(a) and (c) 1

2.2 40 CFR § 257.90(e) – Summary 2

2.2.1 Status of the Groundwater Monitoring Program 2

2.2.2 Key Actions Completed 3

2.2.3 Problems Encountered 3

2.2.4 Actions to Resolve Problems 4

2.2.5 Project Key Activities for Upcoming Year 4

2.3 40 CFR § 257.90(e) – Information 4

2.3.1 40 CFR § 257.90(e)(1) 4

2.3.2 40 CFR § 257.90(e)(2) 4

2.3.3 40 CFR § 257.90(e)(3) 4

2.3.4 40 CFR § 257.90(e)(4) 5

2.3.5 40 CFR § 257.90(e)(5) 5

Table No.	Title
1	Summary of Analytical Results
2	2024 Synoptic Water Levels for Groundwater Monitoring Wells

Figure No.	Title
1	Location of Class 3 Landfill Groundwater Monitoring Wells for CCR Compliance
2	Potentiometric Map January 2024
3	Potentiometric Map April 2024
4	Potentiometric Map June 2024
5	Potentiometric Map November 2024

Appendix A – Statistical Analyses

Appendix B – Laboratory Analytical Results

1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2024 Annual Groundwater Monitoring Corrective Action Report for the Class 3 Landfill at the Cross Generating Station (CGS). This 2024 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 (CFR) Part 257, Subpart D dated April 17, 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

The CGS Class 3 Landfill began operations and placement of CCR in December 2015 in accordance with permits and plans approved by the South Carolina Department of Environmental Services (SCDES), formerly the South Carolina Department of Health and Environmental Control (SCDHEC). The Class 3 Landfill is an existing CCR landfill that is located immediately adjacent to and abuts the eastern slope of the closed Class 2 Landfill. The Class 2 Landfill top deck and east and west slopes are covered by a high-density polyethylene (HDPE) liner that serves as the bottom liner of the Class 3 Landfill. In addition to the federal CCR Rule groundwater monitoring program discussed throughout, a SCDES-approved groundwater monitoring program is also being implemented to comply with the Class 3 Landfill SCDES Permit #LF3-00007.

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

At the start of the current annual reporting period (January 1, 2024), the CGS Class 3 Landfill continued to operate under a detection monitoring program in accordance with § 257.94. An initial successful alternate source demonstration (ASD) was certified in April 2018 which concluded the closed Class 2 Landfill, located immediately adjacent to and upgradient of the Class 3 Landfill, is responsible for the Appendix III statistically significant increases (SSIs). A second ASD certified in March 2023 concluded that the closed Class 2 Landfill continues to be an alternate source.

SSIs of chloride were identified in monitoring wells CLF1B-2 and CLF1B-4 during the January and June 2024 sampling events, which is consistent with previous historical findings and the conclusions outlined in the ASDs. SSIs were identified for boron in monitoring wells CLF1B-3 and CLF1B-5 and fluoride in monitoring well CLF1B-3 in the June 2024 sampling.

At the end of the current annual reporting period (December 31, 2024), the Class 3 Landfill remained in detection monitoring.

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

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a) and (c)

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

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

The CGS Class 3 Landfill is subject to the groundwater monitoring and corrective action requirements set forth by the EPA in § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Landfill Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

2.2 40 CFR § 257.90(–) - 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 2024 for the CGS Class 3 Landfill as required by the Groundwater Monitoring and Corrective Action regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.94, is provided in this report.

2.2.1 Status of the Groundwater Monitoring Program and Corrective Action Program

SSIs of Appendix III constituents were initially identified downgradient of the Class 3 Landfill, and the notification was provided on January 15, 2018. Because this relatively new and fully lined landfill first received waste in 2015, an evaluation of alternate sources was conducted, and the successful ASD was certified in April 2018. The ASD concluded that the closed Class 2 Landfill, located immediately adjacent to and upgradient of the Class 3 Landfill, is responsible for the Appendix III SSIs. The Class 2 Landfill was a physical and pre-existing alternate source which began receiving waste over 40 years ago, well before construction and operations of the Class 3 Landfill. Groundwater impacts associated with the now closed Class 2 landfill were monitored under the state landfill permit compliance program prior to the CCR Rule and well before construction of the Class 3 Landfill.

In 2022, an SSI of chloride was identified in monitoring wells CLF1B-2 and CLF1B-4 during both the January and June 2022 sampling events, which was consistent with historical findings. New SSIs of boron were identified in monitoring wells CLF1B-3 and CLF1B-5 and for fluoride in monitoring well CLF1B-3 for the June 2022 sampling event based on an intrawell statistical analysis; however, boron in monitoring well CLF1B-5 and fluoride in monitoring well CLF1B-3 are not SSIs when based on an interwell statistical analysis. Also of note, all analytical results for fluoride remained below the MCL of 4.0 mg/L for all Class 3 Landfill CCR wells. Again, groundwater conditions observed following construction of the Class 3 Landfill are generally consistent with the pre-construction groundwater conditions observed at the closed Class 2 Landfill and with the current successful ASD and are not necessarily indicative of a release from the Class 3 Landfill. However, because of the new SSIs in several groundwater monitoring wells, an evaluation of

the original 2018 ASD was conducted within 90 days of completing the second 2022 statistical. The goal of this evaluation was to incorporate additional lines of evidence and a more robust hydrogeology assessment, evaluate the possibility of additional contributing sources, and validate the findings of the initial 2018 ASD. A second ASD certified in March 2023 concluded that the Class 2 Landfill continues to be an alternate source. Based on calculated groundwater flow velocity and levels of constituent concentrations, elevated Appendix III concentrations could continue to flow through the Class 3 Landfill monitoring wells until 2043.

For both of the January and June sampling events in 2024, Appendix III constituent detections from downgradient well samples were compared to their respective GWPS using intrawell comparisons. One SSI was identified in January for boron at CLF1B-5, and SSIs were identified for TDS at CLF1B-1, CLF1B-2, and CLF1B-4, and for TDS, iron and sulfate at CLF1B-3 and CLF1B-5. This corresponds to observed increasing concentrations in downgradient wells as discussed in the 2018 and 2023 ASDs. Trends in concentrations will continue to be evaluated during subsequent sampling events. As the ASDs determined the source of the Class 3 Landfill SSIs are due to an alternate source, the Class 3 Landfill has remained in detection monitoring.

2.2.2 Key Actions Completed

The following key actions were completed in 2024:

- Prepared 2023 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 (2) rounds of groundwater monitoring results (January and June) in accordance with § 257.94 and recorded the concentrations in the facility's operating record as required by § 257.94(f). Groundwater monitoring results are summarized in Table 1 and Laboratory Analytical Results are provided in Appendix B.
- Completed statistical evaluations associated with the January 2024 and June 2024 sampling events to determine statistically significant increases for Appendix III constituents in accordance with § 257.93(h)(2). Statistical results are summarized in Appendix A.
- Continued with 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 evaluation of turbidity, oxidation-reduction potential, and well screen submersion trends sitewide in wells and to identify wells to be redeveloped by a certified well driller to remove buildup of sediment fines and suspected biofouling on the well screens. A submersible camera was also used where applicable to investigate wells with unsubmerged screens prior to redevelopment. Plans to conduct redevelopment will be finalized in 2025 and reported in the 2025 Annual Report.

2.2.3 Problems Encountered

No problems were encountered.

2.2.4 Actions to Resolve Problems

No actions were required.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2025 include the following:

- Prepare the 2024 annual report; place it in the record as required by § 257.105(h)(1); notify the Relevant State Director [§ 257.106(d)]; and post to the facility's publicly available CCR website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring and subsequent statistical analysis as required by § 257.94 and in accordance with the CGS GMP.
- Update the statistical upper tolerance limits for background wells PM-1 and CBW-1 after the second semiannual sampling event of 2025 in accordance with the Unified Guidance.
- The CGS Sampling and Analysis Plan was updated in 2023 to make general revisions and improvements to reflect changes in site conditions and procedures. It will be revised in 2025 to reflect additional nature and extent and other groundwater monitoring wells which were subsequently incorporated into the groundwater monitoring network.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions.

2.3 40 CFR § 257.90(E) – INFORMATION

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

2.3.1 40 CFR § 257.90(e)(1)

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

As required by § 257.90(e)(1), a map showing the locations of the CCR unit and associated upgradient and downgradient monitoring wells for the Class 3 Landfill is presented as Figure 1.

2.3.2 40 CFR § 257.90(e)(2)

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

No wells for groundwater monitoring of constituent concentrations were decommissioned in 2024.

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 § 257.94(b) and § 257.94(d), at least two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection (e.g., detection), and monitoring data obtained for the groundwater monitoring program for the Class 3 Landfill is presented in Table 1 of this report. In addition, as required by § 257.95(d)(3), Table 1 includes the groundwater protection standards established under § 257.95(d)(2). Laboratory analytical 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

For 2024, there has been no transition between monitoring programs. As noted previously, one SSI was identified for boron at CLF1B-5 for only the January sampling event. Then in June, SSIs were identified for TDS at CLF1B-1, CLF1B-2, and CLF1B-4, and for TDS, iron, and sulfate at CLF1B-3 and CLF1B-5. All of these correspond to observed increasing concentrations in downgradient wells as discussed in the 2018 and 2023 ASDs. Findings of the most recent ASD conclude SSIs identified in 2022 were the result of physical and pre-existing alternative sources, specifically the CGS Class 2 Landfill, which began receiving waste 40 years ago, and possible residual impacts from temporary gypsum marketing storage areas which no longer exist. Based on calculated groundwater flow velocity and levels of constituent concentrations, elevated concentrations could continue to flow through the Class 3 Landfill monitoring wells until 2043. The findings of the March 2023 ASD and consistency with the 2024 groundwater monitoring data and statistical results support the unit continuing in detection monitoring.

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

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

TABLES

Table 1 - Summary of Analytical Results
Cross Generating Station Class 3 Landfill Detection Monitoring 2024

					Appendix III Constituents							Field Parameters							
Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number		Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH	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	Feet	Feet	SU	uS	C	mv	NTU	ppm
				Method	EPA 6010D	EPA 6020B	EPA 300.0	EPA 300.0	EPA 300.0	SM 2540C							SM2580		
				GWPS/ US EPA MCL/RSL	----	----	----	4.00	----	----	----	----	----	----	----	----	----	----	----
	Site Background Wells																		
PM-1	Background	1/8/24	AF87807		14.2	119	12.8	<0.10	7.62	193.8	5.13	8.03	75.21	5.13	143	15.90	6.00	0	0.720
PM-1	Background	6/4/24	AG01476		12.4	10.5	12.1	<0.10	7.75	143.8	5.20	8.51	74.73	5.20	127	24.34	-35.0	0	0.260
PM-1	total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CBW-1	Background	1/8/24	AF87768		19.3	25.0	3.48	0.14	83.6	188.8	4.44	8.89	76.91	4.44	250	15.14	354	0	0.750
CBW-1	Background	6/4/24	AG01438		19.6	24.7	3.22	0.13	89.6	170.0	4.54	10.41	75.39	4.54	264	20.26	202	0	1.28
CBW-1	total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Class 3 Landfill Wells																		
CLF1B-1	Detection	1/22/24	AF87800		15.6	181	28.2	<0.10	155	617.5	6.55	6.62	77.14	6.55	1010	14.28	93.0	1.50	1.57
CLF1B-1	Duplicate	1/22/24	AF87801		16.2	178	28.1	<0.10	159	610.0	***	***	***	***	***	***	***	***	***
CLF1B-1	Detection	6/4/24	AG01469		14.5	192	30.4	<0.10	160	607.5	6.27	8.69	75.07	6.27	941	24.88	71.0	0	0.250
CLF1B-1	Duplicate	6/4/24	AG01470		15.3	193	30.1	<0.10	158	673.8	***	***	***	***	***	***	***	***	***
CLF1B-1	total samples				4	4	4	4	4	4	2	2	2	2	2	2	2	2	2
CLF1B-2	Detection	1/22/24	AF87802		24.1	143	93.1	<0.10	16.5	610.0	6.78	4.96	77.08	6.78	844	14.53	49.0	7.80	1.43
CLF1B-2	Detection	6/4/24	AG01471		24.7	144	93.2	<0.10	15.0	626.2	6.50	7.22	74.82	6.50	749	25.01	9.00	0	0.240
CLF1B-2	total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CLF1B-3	Detection	1/22/24	AF87803		96.8	187	18.8	<0.10	247	642.5	6.61	5.50	77.25	6.61	940	15.87	-43.0	0	0.350
CLF1B-3	Resample	5/7/24	AF98793		***	***	***	***	***	***	***	6.64	76.11	6.53	1130	20.12	-21	6.1	0.3
CLF1B-3	Detection	6/5/24	AG01472		101	210	42.3	0.12	270	810.0	6.69	8.25	74.50	6.69	1130	20.26	-48.0	0	0.300
CLF1B-3	total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CLF1B-4	Detection	1/22/24	AF87804		25.3	128	100	<0.10	19.4	603.8	7.04	5.34	77.40	7.04	760	16.53	115	0	1.99
CLF1B-4	Detection	6/5/24	AG01473		29.5	142	98.1	<0.10	29.0	586.2	6.90	8.70	74.04	6.90	849	20.39	69.0	0	0.350
CLF1B-4	total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CLF1B-5	Detection	1/22/24	AF87805		27.3	278	168	<0.10	256	1131	6.64	3.71	77.38	6.64	1510	16.92	9.00	4.50	0.920
CLF1B-5	Detection	6/5/24	AG01474		27.1	287	176	<0.10	256	1222	6.64	7.50	73.59	6.64	1020	33.77	-56.0	0	0.170
CLF1B-5	total samples				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 for Assessment & Corrective Action Monitoring in 2024 for the constituents listed in Appendix III of the EPA CCR Rule (40 CFR) were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Test America Laboratories Inc. Savannah (Certification # 98001), Rogers & Callcot, Inc. (Certification # 23105001), Davis & Brown (Certification # 21117), and Shealy Environmental Services, Inc (Certification # 32010).
2. All Background and downgradient compliance wells have been sampled to meet §257.94.
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
Cross Generating Station
2024 Synoptic Water Levels for Groundwater Monitoring Wells

		1st Event - 1/3/2024		2nd Event - 4/9/2024		3rd Event - 6/3/2024		4th Event - 11/6/2024	
Well Name	Top of Casing 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)
PM-1	83.24	7.75	75.49	8.14	83.24	8.50	74.74	9.13	74.11
CBW-1	85.80	8.50	77.30	9.12	85.80	10.41	75.39	11.47	74.33
CAP-1	82.70	8.50	74.20	6.61	82.70	7.66	75.04	8.40	74.30
CAP-2	89.70	15.10	74.60	15.91	89.70	16.98	72.72	17.69	72.01
CAP-3	91.49	14.70	76.79	15.47	91.49	16.54	74.95	17.34	74.15
CAP-4	91.77	15.05	76.72	15.77	91.77	16.97	74.80	17.81	73.96
CAP-5	91.78	14.60	77.18	15.26	91.78	17.66	74.12	18.67	73.11
CAP-6	91.82	14.65	77.17	15.89	91.82	18.05	73.77	18.94	72.88
CAP-7	91.64	14.75	76.89	15.19	91.64	17.57	74.07	18.52	73.12
CAP-8	91.61	15.95	75.66	16.67	91.61	18.30	73.31	18.98	72.63
CAP-9	91.59	14.35	77.24	14.62	91.59	17.82	73.77	18.73	72.86
CAP-10	95.68	20.25	75.43	21.12	95.68	22.40	73.28	13.11	82.57
CAP-11	95.55	19.20	76.35	18.72	95.55	20.71	74.84	21.31	74.24
CAP-12	98.33	22.25	76.08	23.72	98.33	24.13	74.20	24.73	73.60
CAP-13	80.77	4.35	76.42	4.83	80.77	7.65	73.12	8.76	72.01
CAP-14	80.77	4.15	76.62	4.78	80.77	7.77	73.00	8.93	71.84
CCMLF-1	80.86	3.45	77.41	4.00	80.86	7.11	73.75	7.95	72.91
CCMLF-1D	80.65	3.20	77.45	3.74	80.65	6.89	73.76	7.74	72.91
CCMLF-2	84.08	6.75	77.33	7.43	84.08	11.53	72.55	12.74	71.34
POZ-3	82.61	4.30	78.31	4.98	82.61	7.80	74.81	8.98	73.63
POZ-4	82.73	3.95	78.78	5.07	82.73	8.34	74.39	9.35	73.38
POZ-5D	82.49	4.15	78.34	5.21	82.49	8.56	73.93	9.57	72.92
POZ-6	83.84	5.80	78.04	6.44	83.84	9.86	73.98	10.93	72.91
POZ-7	82.02	3.95	78.07	4.77	82.02	7.44	74.58	8.29	73.73
POZ-8	83.13	4.80	78.33	5.84	83.13	9.12	74.01	10.15	72.98
CLF1B-1	83.76	6.00	77.76	6.66	83.76	8.70	75.06	9.68	74.08
CLF1B-2	82.04	4.35	77.69	5.05	82.04	7.18	74.86	8.19	73.85
CLF1B-3	82.75	3.95	78.80	5.82	82.75	8.18	74.57	9.18	73.57
CLF1B-4	82.74	3.85	78.89	5.80	82.74	8.55	74.19	9.59	73.15
CLF1B-5	81.09	3.40	77.69	4.23	81.09	7.32	73.77	8.31	72.78
CLF1B-5D	80.93	3.85	77.08	4.55	80.93	7.72	73.21	8.82	72.11
CCMAP-1	80.21	4.50	75.71	5.10	80.21	7.61	72.60	8.45	71.76
CCMAP-2	81.24	6.50	74.74	7.14	81.24	8.02	73.22	8.55	72.69
CCMAP-3	81.91	6.15	75.76	6.92	81.91	8.58	73.33	8.95	72.96
CCMAP-4	81.83	4.45	77.38	5.19	81.83	7.64	74.19	8.60	73.23
CCMAP-5	83.71	6.15	77.56	6.93	83.71	9.33	74.38	10.29	73.42
CCMAP-6	84.41	7.90	76.51	8.45	84.41	11.61	72.80	12.57	71.84
CCMAP-7	81.57	7.05	74.52	7.59	81.57	8.21	73.36	8.93	72.64
CCMAP-8	82.89	6.40	76.49	6.99	82.89	9.80	73.09	10.72	72.17
CCMAP-9	82.51	6.00	76.51	6.62	82.51	9.75	72.76	10.80	71.71
CCMAP-10	81.80	5.55	76.25	6.08	81.80	9.10	72.70	10.01	71.79
CCMAP-11	80.29	4.00	76.29	5.01	80.29	8.11	72.18	9.10	71.19
CCMAP-12	80.58	4.75	75.83	5.71	80.58	7.42	73.16	8.00	72.58
CCMAP-13	80.11	4.55	75.56	5.36	80.11	6.93	73.18	7.60	72.51
CCMAP-14	78.64	4.40	74.24	4.71	78.64	5.43	73.21	6.04	72.60
CGYP-1	91.89	15.95	75.94	19.69	91.89	17.56	74.33	17.98	73.91
CGYP-2	84.88	8.50	76.38	13.20	84.88	10.56	74.32	11.01	73.87
CGYP-3	83.95	6.95	77.00	9.41	83.95	9.37	74.58	9.84	74.11
CGYP-4	83.49	6.65	76.84	8.27	83.49	8.20	75.29	8.60	74.89
CGYP-5	84.12	7.90	76.22	9.09	84.12	8.14	75.98	8.35	75.77
CGYP-6	83.93	7.15	76.08	-	-	9.46	74.47	9.91	74.02
CGYP-7	85.37	9.20	76.17	13.10	85.37	10.97	74.40	11.42	73.95
CGSPZ-1	83.31	7.45	75.86	8.64	83.31	8.61	74.70	9.22	74.09
CGSPZ-2	82.56	6.70	75.86	9.38	82.56	8.29	74.27	8.55	74.01
CGSPZ-3	82.85	4.75	78.10	6.19	82.85	9.91	72.94	10.51	72.34
CGSPZ-4	81.28	3.80	77.48	4.82	81.28	7.68	73.60	8.73	72.55
CGSPZ-5	80.56	2.75	77.81	5.39	80.56	8.27	72.29	9.62	70.94
CCMGP-1	84.30	8.15	76.15	13.43	84.30	10.07	74.23	10.53	73.77
CCMGP-2	96.73	20.05	76.68	24.20	96.73	22.54	74.19	22.97	73.76
CCMGP-3	84.44	8.45	75.99	12.38	84.44	10.54	73.90	10.97	73.47
CCMGP-4	84.82	8.50	76.32	12.78	84.82	10.31	74.51	10.79	74.03
CCMGP-5	79.91	4.70	75.21	6.06	79.91	6.56	73.35	7.08	72.83
CGS-PSE-1	-	-	75.07	-	75.27	-	74.97	-	74.80
CGS-PSE-2	-	-	81.99	-	80.27	-	79.30	-	76.85
CGS-PSE-3	-	-	79.52	-	76.88	-	76.49	-	76.52
CGS-PSE-4	-	-	76.37	-	75.64	-	74.88	-	75.43
CGS-PSE-5	-	-	78.50	-	77.28	-	76.57	-	76.49
CGS-PSE-6	-	-	74.71	-	74.58	-	74.46	-	74.21
CGS-PSE-7	-	-	83.35	-	85.75	-	85.30	-	86.29
CGYPSW-1-WSE	-	-	75.13	-	75.16	-	74.88	-	74.93
CGYPSW-2-WSE	-	-	75.15	-	75.18	-	75.02	-	75.01
CGYPSW-3-WSE	-	-	75.49	-	75.37	-	75.45	-	75.26
CGYPSW-4-WSE	-	-	75.83	-	75.69	-	75.76	-	75.75
CGYPSW-6-WSE	-	-	75.12	-	75.17	-	74.85	-	74.70
CGYPSW-7-WSE	-	-	75.15	-	75.20	-	74.83	-	74.76
CGYPSW-8-WSE	-	-	75.14	-	75.23	-	74.86	-	74.79
GMPSW-WET-1SWE	-	-	75.98	-	75.81	-	74.35	-	74.24
GMPSW-WET-2SWE	-	-	75.55	-	75.34	-	74.49	-	74.50
GMPSW-CPD-1SWE	-	-	78.47	-	77.62	-	77.38	-	77.74
STAFF GAUGE	-	-	76.80	-	76.45	-	-	-	-
STAFF GAUGE	-	-	76.63	-	76.48	-	-	-	-

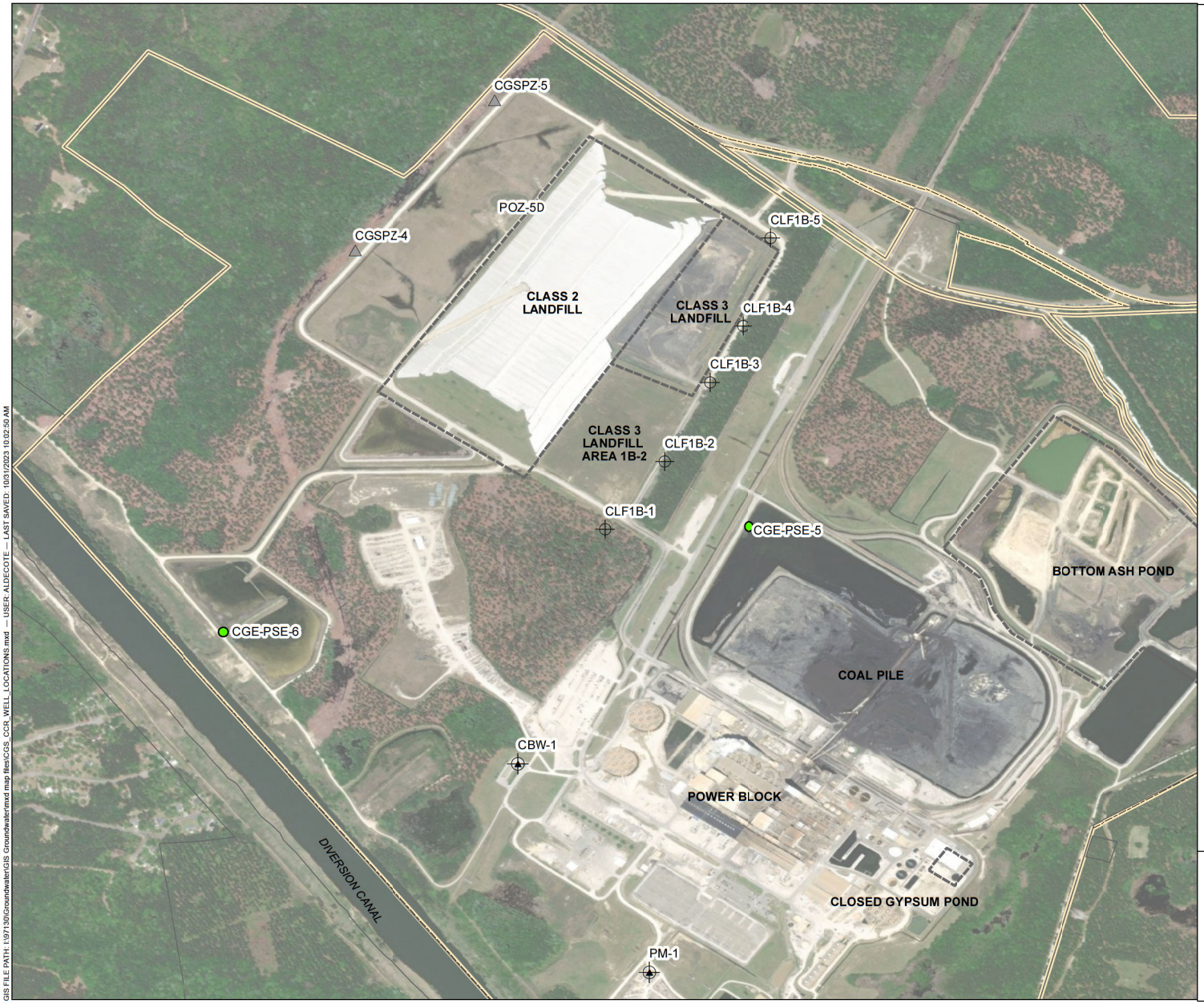
Notes:

1. Additional groundwater monitoring wells used for development 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 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
- CLASS 3 LANDFILL AREA 1B WELL
- CCR UNIT BOUNDARY
- CROSS GENERATING STATION PROPERTY BOUNDARY
- SANTEE COOPER PROPERTY BOUNDARY
- POND WATER SURFACE ELEVATION MEASUREMENT LOCATION

NOTES:

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

N

0 970 1,940

SCALE IN FEET

SANTEE COOPER
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

LOCATION OF CLASS 3 LANDFILL GROUNDWATER MONITORING WELLS FOR CCR COMPLIANCE

OCTOBER 2023

FIGURE 1

GIS FILE PATH: I:\97130\Groundwater\GIS Groundwater\mxd map files\CGS_CCR_WELL_LOCATIONS.mxd — USER: ALDECOTE — LAST SAVED: 10/31/2023 10:02:50 AM

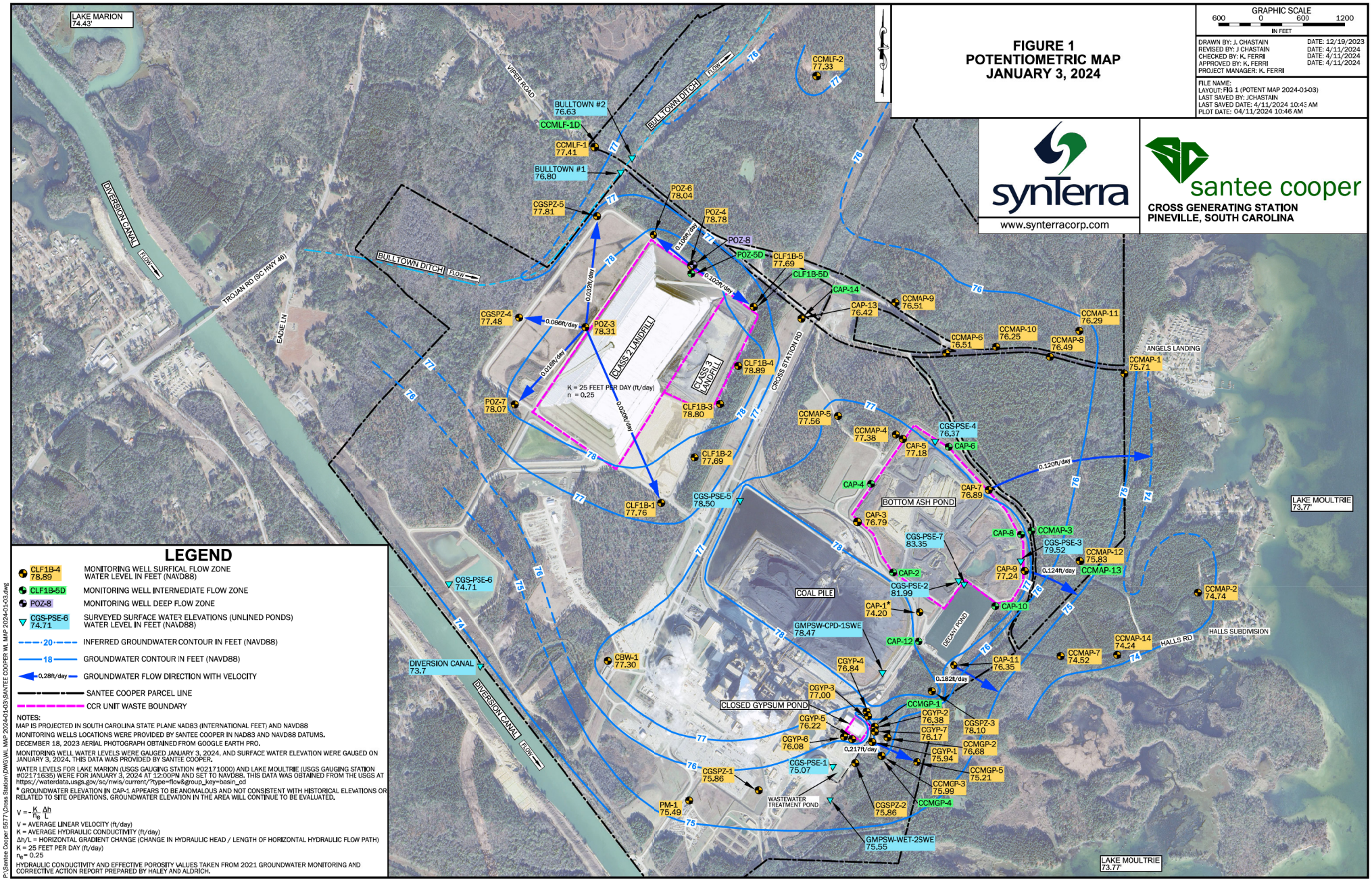


FIGURE 1
POTENTIOMETRIC MAP
JANUARY 3, 2024

GRAPHIC SCALE
600 0 600 1200
IN FEET

DRAWN BY: J. CHASTAIN	DATE: 12/19/2023
REVISED BY: J CHASTAIN	DATE: 4/11/2024
CHECKED BY: K. FERRI	DATE: 4/11/2024
APPROVED BY: K. FERRI	DATE: 4/11/2024
PROJECT MANAGER: K. FERRI	

FILE NAME:
LAYOUT: FIG 1 (POTENT MAP 2024-01-03)
LAST SAVED BY: JCHASTAIN
LAST SAVED DATE: 4/11/2024 10:45 AM
PLOT DATE: 04/11/2024 10:46 AM

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santee cooper
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

LEGEND

- CLF1B-4 78.89 — MONITORING WELL SURFICAL FLOW ZONE WATER LEVEL IN FEET (NAVD88)
- CLF1B-5D — MONITORING WELL INTERMEDIATE FLOW ZONE
- POZ-8 — MONITORING WELL DEEP FLOW ZONE
- CGS-PSE-6 74.71 — SURVEYED SURFACE WATER ELEVATIONS (UNLINED PONDS) WATER LEVEL IN FEET (NAVD88)
- 20 — INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- 18 — GROUNDWATER CONTOUR IN FEET (NAVD88)
- 0.28ft/day — GROUNDWATER FLOW DIRECTION WITH VELOCITY
- SANTEE COOPER PARCEL LINE
- CCR UNIT WASTE BOUNDARY

NOTES:
MAP IS PROJECTED IN SOUTH CAROLINA STATE PLANE NAD83 (INTERNATIONAL FEET) AND NAVD88
MONITORING WELLS LOCATIONS WERE PROVIDED BY SANTEE COOPER IN NAD83 AND NAVD88 DATUMS.
DECEMBER 18, 2023 AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO.
MONITORING WELL WATER LEVELS WERE GAUGED JANUARY 3, 2024, AND SURFACE WATER ELEVATION WERE GAUGED ON JANUARY 3, 2024. THIS DATA WAS PROVIDED BY SANTEE COOPER.
WATER LEVELS FOR LAKE MARION (USGS GAUGING STATION #02171000) AND LAKE MOULTRIE (USGS GAUGING STATION #02171635) WERE FOR JANUARY 3, 2024 AT 12:00PM AND SET TO NAVD88. THIS DATA WAS OBTAINED FROM THE USGS AT https://waterdata.usgs.gov/sc/nwis/current/?type=flow&group_key=basin_cd
* GROUNDWATER ELEVATION IN CAP-1 APPEARS TO BE ANOMALOUS AND NOT CONSISTENT WITH HISTORICAL ELEVATIONS OR RELATED TO SITE OPERATIONS. GROUNDWATER ELEVATION IN THE AREA WILL CONTINUE TO BE EVALUATED.

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

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 = 25 FEET PER DAY (ft/day)
n_e = 0.25
HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

P:\Santee Cooper 5577\Cross Station\DWG\WL MAP 2024-01-03\SANTEE COOPER WL MAP 2024-01-03.dwg

FIGURE 1
POTENTIOMETRIC MAP
APRIL 9, 2024
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

santee cooper

synTerra

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

DRAWN BY: T. KING	DATE: 10/22/2021
REVISED BY: T. KING	DATE: 07/01/2024
CHECKED BY: K. FERRI	DATE: 07/01/2024
APPROVED BY: K. FERRI	DATE: 07/01/2024
PROJECT MANAGER: K. FERRI	

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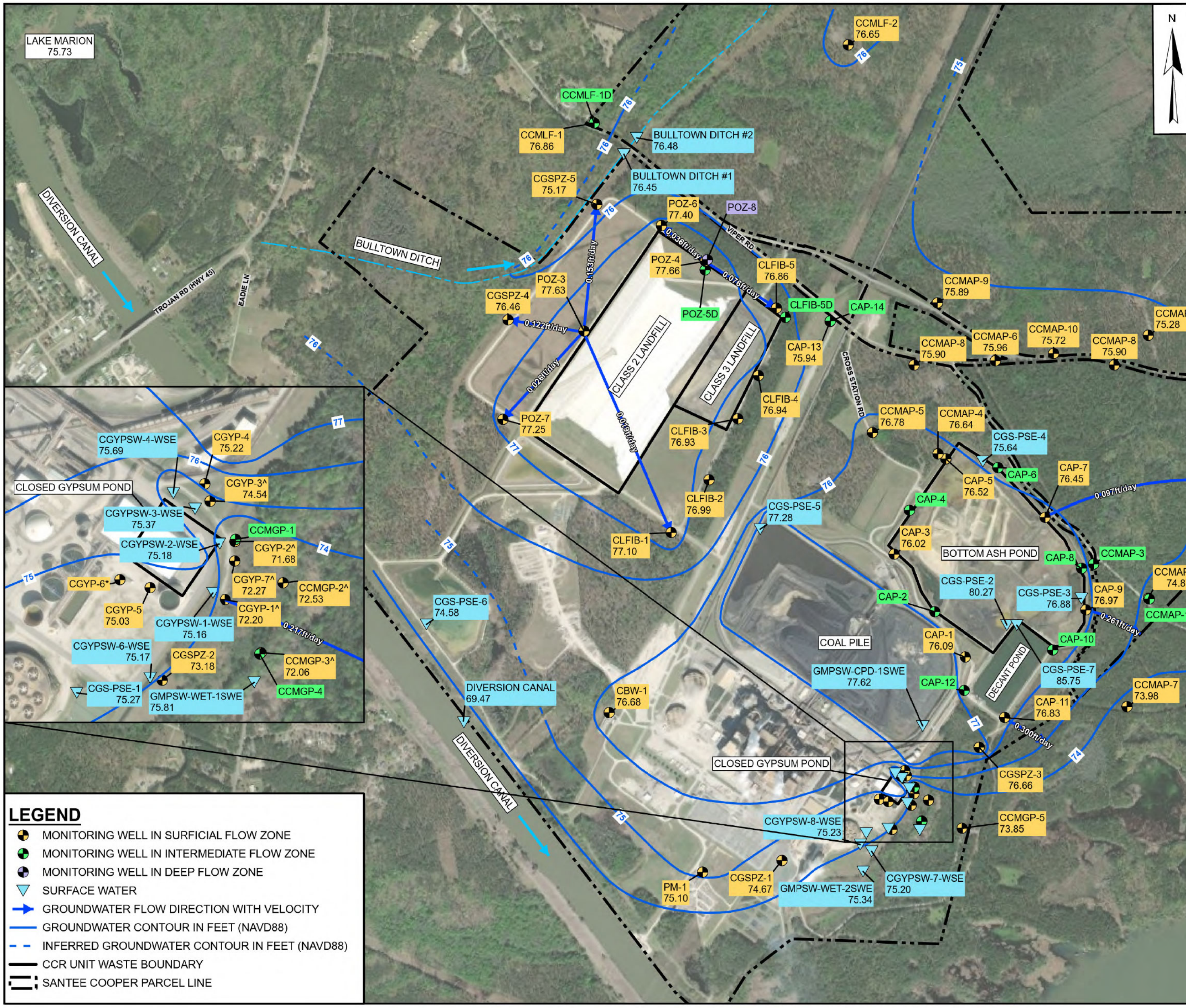

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN INTERMEDIATE FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE

NOTES:

1. WATER LEVELS WERE GAUGED APRIL 9, 2024.

2. WATER LEVEL ELEVATIONS FOR LAKE MARION AND LAKE MOULTRIE WERE OBTAINED FROM USGS GAUGING STATIONS APRIL 8, 2024.

3. * - CGYP-6 WELL WAS ABANDONED TO FACILITATE CONSTRUCTION OF THE NEW WASTE WATER TREATMENT SYSTEM. THE REPLACEMENT WELL WAS INSTALLED IN MAY 2024.

4. ^ - GROUNDWATER PUMPING OCCURRED IN THE VICINITY OF THE CLOSED GYPSUM POND TO FACILITATE CONSTRUCTION OF THE NEW WASTE WATER TREATMENT SYSTEM. THEREFORE, GROUNDWATER ELEVATIONS ARE NOT REPRESENTATIVE OF NATURAL SITE CONDITIONS AND ARE EXPECTED TO RETURN TO NATURAL LEVELS DURING THE NEXT SYNOPTIC WATER LEVEL EVENT.

5. ALL BOUNDARIES ARE APPROXIMATE.

6. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.

7. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.

8. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

9. 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)
$\Delta h/L$ = 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

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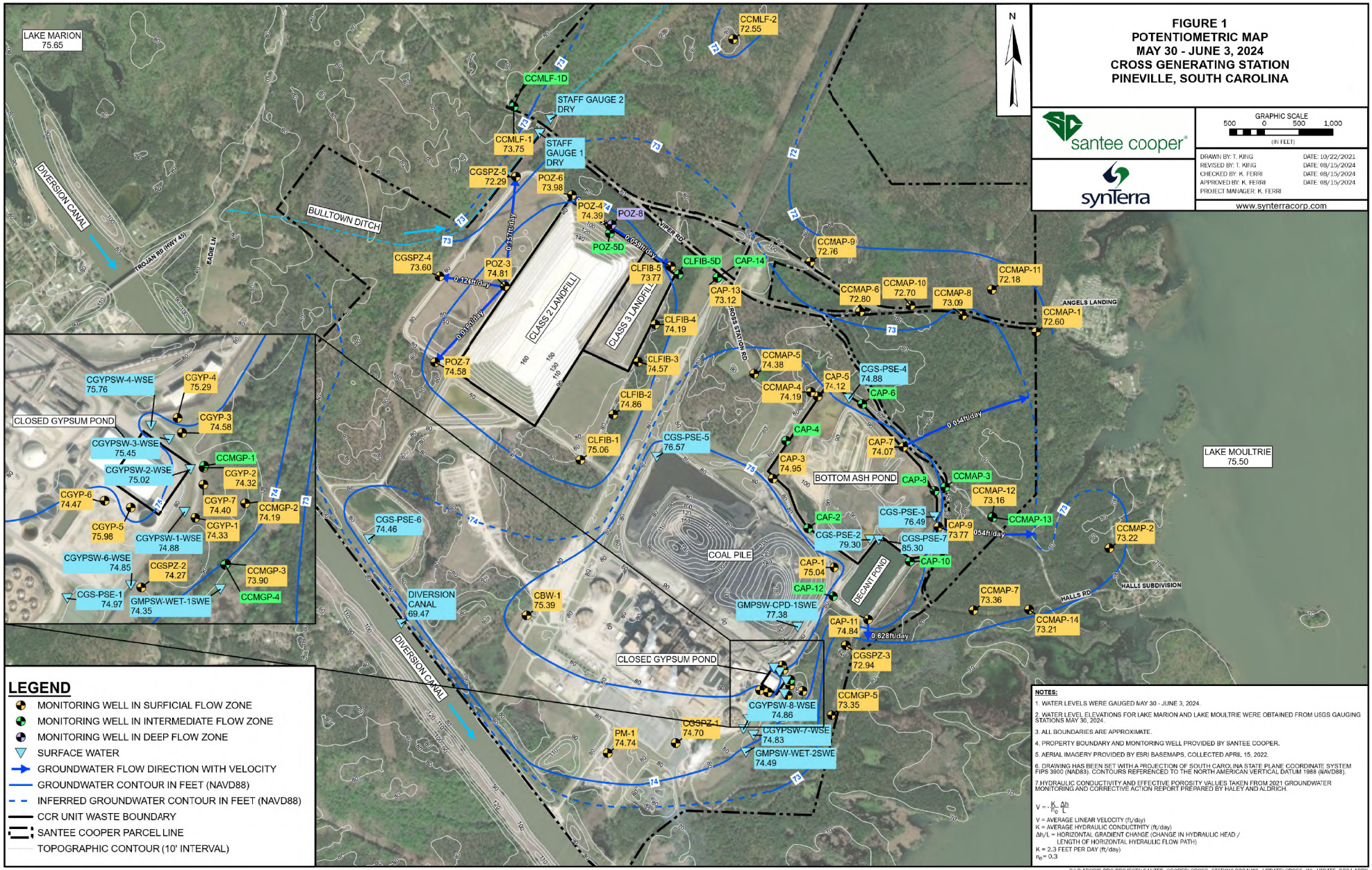

FIGURE 1
POTENTIOMETRIC MAP
MAY 30 - JUNE 3, 2024
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

NOTES:

1. WATER LEVELS WERE GAUGED MAY 30 - JUNE 3, 2024.
2. WATER LEVEL ELEVATIONS FOR LAKE MARION AND LAKE MOULTRIE WERE OBTAINED FROM USGS GAUGING STATIONS MAY 30, 2024.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED 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). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
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

G:\0 ARCGIS PRO PROJECTS\SANTEE_COOPER\CROSS_STATION\2024\WL_UPDATE\CROSS_WL_UPDATE_2024.APRX

FIGURE 1
POTENTIOMETRIC MAP
NOVEMBER 6, 2024
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

santee cooper®

synTerra

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

DRAWN BY: T. KING	DATE: 10/22/2021
REVISED BY: L. FOREMAN	DATE: 12/16/2024
CHECKED BY: K. FERRI	DATE: 12/16/2024
APPROVED BY: K. FERRI	DATE: 12/16/2024
PROJECT MANAGER: K. FERRI	

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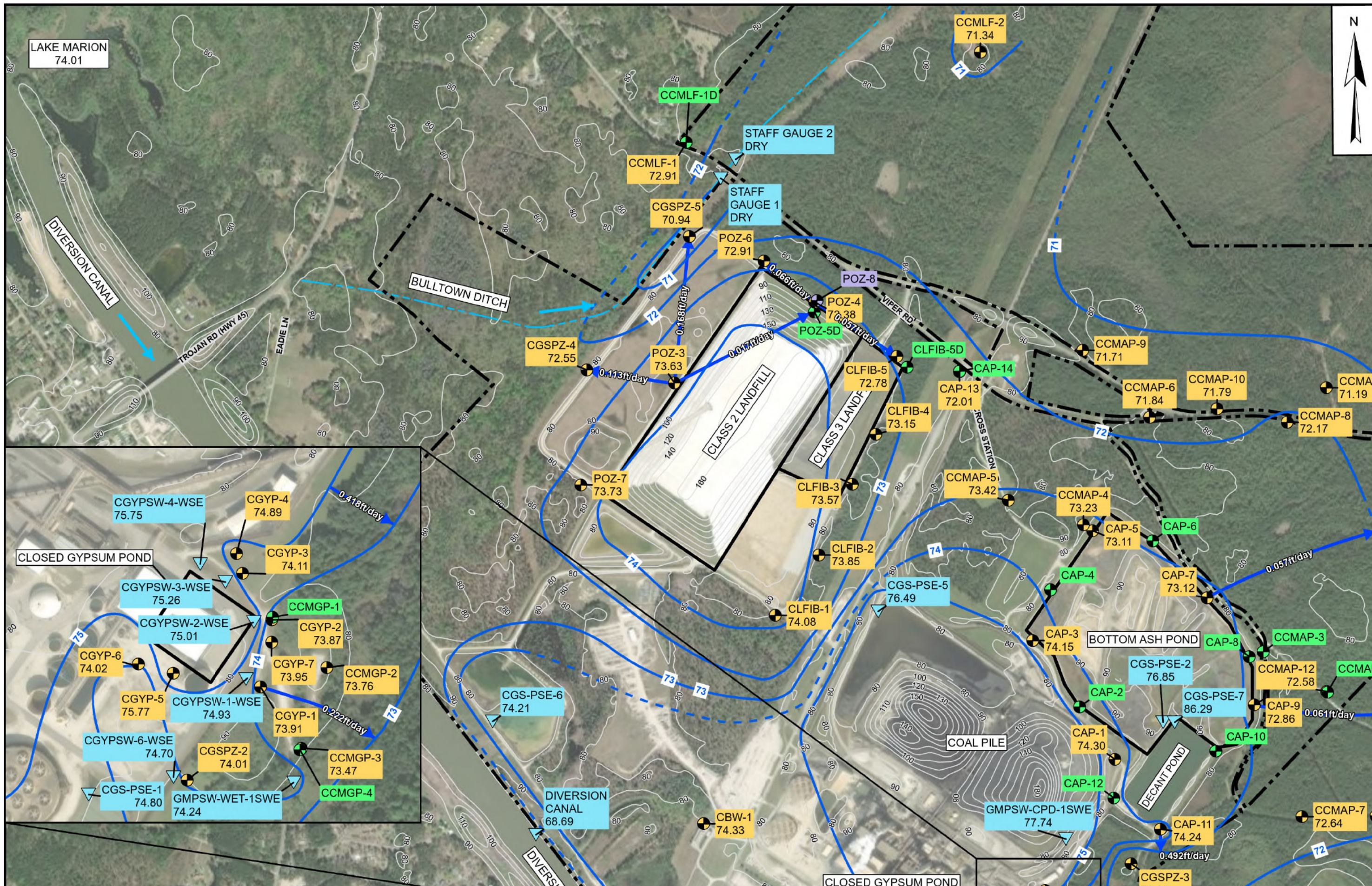

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN INTERMEDIATE FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (10' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED NOVEMBER 6, 2024.
2. WATER LEVEL ELEVATIONS FOR LAKE MARION AND LAKE MOULTRIE WERE OBTAINED FROM USGS GAUGING STATIONS NOVEMBER 6, 2024.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED MARCH 15, 2023.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
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)
$\Delta h/L$ = 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

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Appendix A – Statistical Analysis

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

TECHNICAL MEMORANDUM

July 3, 2024
File No. 132892-102-001-02

SUBJECT: Statistical Evaluation of the January 2024 Groundwater Detection Monitoring Data
Cross Generating Station
Class 3 Landfill

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the January 2024 detection monitoring event for the Cross Generating Station (CGS) Class 3 Landfill. Data for this groundwater sampling event were validated on April 4, 2024 by Santee Cooper.

BACKGROUND

The CGS Class 3 Landfill began receiving waste in December 2015. After completion of baseline sampling, the initial statistical analysis for the CGS Class 3 Landfill identified statistically significant increases (SSIs) above the Groundwater Protection Standards (GWPS) for Appendix III constituents in downgradient monitoring wells. Subsequently, alternate source demonstrations (ASDs) completed in April 2018 and March 2023 concluded the closed Class 2 Landfill and former temporary gypsum marketing areas, which are adjacent to the Class 3 Landfill, are the source for the Appendix III SSIs (boron, calcium, chloride, pH, sulfate, and total dissolved solids [TDS]) as opposed to the Class 3 Landfill. As a result, the Class 3 Landfill remained in detection monitoring. Intrawell statistical evaluations have been conducted for the Appendix III constituents since the 2018 ASD.

Recent analytical testing results were evaluated to determine if SSIs of Appendix III groundwater monitoring constituents exist above the GWPS. Using intrawell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to background values.

STATISTICAL EVALUATION

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

To statistically evaluate the analytical results, the background upper prediction limit (UPL), which is a type of prediction interval method, was selected to evaluate the Appendix III data, and additionally, the lower prediction limit (LPL) was selected to evaluate the pH. The prediction interval method is one of the options outlined in the Rule. A prediction interval procedure establishes a concentration limit for each constituent from the distribution of the background data, with a specified confidence level (e.g., 95

percent). The upper endpoint of a concentration limit is termed the UPL, and the lower endpoint of a concentration limit is called the LPL. Depending on the background data distribution, parametric or non-parametric prediction limits procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via transformation of the sample background data.

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

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 June 2023 and updated in the Chemstat output. The background dataset will be updated in the summary table again after four additional data points are collected (first semiannual event of 2025), in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table 1. In summary, 52 percent of trends analyzed are identified as stable or decreasing in the compliance wells, whereas 48 percent of compliance wells demonstrated increasing trends for one or more Appendix III constituents. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSI. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF APPENDIX III DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix III constituent detections from downgradient well samples were compared to their respective GWPS (Table 1) using intrawell comparisons. One SSI was identified for boron at CLF1B-5 which corresponds to observed increasing concentrations in downgradient wells as discussed in the 2018 and 2023 ASDs. Findings of the most recent ASD conclude SSIs identified in 2022 were the result of physical and pre-existing alternative sources, specifically the CGS Class 2 Landfill, which began receiving waste 40 years ago, and possible residual impacts from temporary gypsum marketing storage areas which no longer exist. Based on calculated groundwater flow velocity and levels of constituent concentrations, elevated concentrations could continue to flow through the Class 3 Landfill monitoring wells until 2043.

Trends in concentrations will continue to be evaluated during subsequent sampling events. Based on these results, the Class 3 Landfill will continue in detection monitoring.

Enclosures:

Table 1 – CGS Class 3 Landfill January 2024 Detection Monitoring Data

TABLE

TABLE 1

JANUARY 2024 CORRECTIVE ACTION MONITORING DATA

CGS CLASS 2 LANDFILL

																									Inter-well Analysis		
Location Id	**Frequency of Detection**	**Percent Non-Detects**	**Range of Non-Detect**	**Mean**	**50th Percentile (Median)**	**95th Percentile**	**Maximum Detect**	**Variance**	**Standard Deviation**	**Coefficient of Variance**	**CCR MCL/RSL**	**Report Result Unit**	**Detection Exceedances (Y/N)**	**Number of Detection Exceedances**	**Number of Non-Detection Exceedances**	**Outlier Presence**	**Outlier Removed**	**Trend**	**Distribution Well**	**January 2024 Concentrations**	**Detect?**	**95 LCL**	**Upper Tolerance Limit**	**Upper Tolerance Limit**	**SSI**	**GWPS (Higher of MCL/RSL or Upper Tolerance Limit)**	**Exceedance above Background at Individual Well**	**SSL**
CCR Appendix-IV: Antimony, Total (mg/L)																											
CBW-1	0/21	100%	0.0(5-0.025	0.00595	0.005	0.005		0.00001905	0.004364	0.7332	0.006	mg/L	N	0	1	NA	NA	NA	NA								
PM-1	0/21	100%	0.0(5-0.025	0.00619	0.005	0.01		0.00001976	0.004445	0.7181	0.006	mg/L	N	0	2	NA	NA	NA					25.0	0.025			
POZ-4	0/19	100%	0.0(5-0.025	0.00605	0.005	0.007		0.00002105	0.004588	0.7581	0.006	mg/L	N	0	1	NA	NA	NA		0.005	N				N	0.025		
POZ-6	0/19	100%	0.0(5-0.025	0.00605	0.005	0.007		0.00002105	0.004588	0.7581	0.006	mg/L	N	0	1	NA	NA	NA		0.005	N				N		N	No
POZ-7	0/19	100%	0.0(5-0.025	0.00605	0.005	0.007		0.00002105	0.004588	0.7581	0.006	mg/L	N	0	1	NA	NA	NA		0.005	N				N		N	No
CCR Appendix-IV: Arsenic, Total (mg/L)																											
CBW-1	3/23	87%	0.0(3-0.005	0.00531	0.005	0.006567	0.016	0.000006084	0.002467	0.4648	0.01	mg/L	Y	1	0	Yes	No	NA									
PM-1	3/23	87%	0.0(3-0.01	0.00496	0.005	0.005	0.0142	0.000001576	0.001255	0.2532	0.01	mg/L	N	0	0	Yes	No	NA	Non-parametric				16.0	0.016			
POZ-4	1/22	95%	0.0(3-0.005	0.00455	0.005	0.005	0.0131	7.217E-07	0.0008495	0.1867	0.01	mg/L	N	0	0	No	No	NA		0.005	N				N	0.016		
POZ-6	1/22	95%	0.0(3-0.005	0.00459	0.005	0.005	0.0139	6.403E-07	0.0008002	0.1745	0.01	mg/L	N	0	0	No	No	NA		0.005	N				N		N	No
POZ-7	0/22	100%	0.0(3-0.005	0.00455	0.005	0.005		7.359E-07	0.0008579	0.1887	0.01	mg/L	N	0	0	NA	NA	NA		0.005	N				N		N	No
CCR Appendix-IV: Barium, Total (mg/L)																											
CBW-1	23/23	0%	-	0.043	0.0427	0.04723	0.061	0.00002518	0.005018	0.1167	2	mg/L	N	0	0	Yes	No	Decreasing									
PM-1	23/23	0%	-	0.0819	0.0803	0.09875	0.103	0.00006264	0.007915	0.0967	2	mg/L	N	0	0	Yes	No	Stable					103.0	0.1030			
POZ-4	22/22	0%	-	0.118	0.102	0.1866	0.215	0.002094	0.04576	0.3885	2	mg/L	N	0	0	Yes	No	Increasing		0.155	Y				Y	2.000		
POZ-6	22/22	0%	-	0.0573	0.05205	0.08805	0.1	0.0002686	0.01639	0.2862	2	mg/L	N	0	0	Yes	No	Stable		0.083	Y				N		N	No
POZ-7	22/22	0%	-	0.217	0.2275	0.303	0.389	0.006204	0.07876	0.3627	2	mg/L	N	0	0	No	No	Decreasing		0.095	Y				N		N	No
CCR Appendix-IV: Beryllium, Total (mg/L)																											
CBW-1	1/22	95%	0.00(5-0.0005	0.000506	0.0005	0.0005	0.00063	7.682E-10	0.00002772	0.05478	0.004	mg/L	N	0	0	No	No	NA									
PM-1	0/23	100%	0.00(5-0.005	0.000696	0.0005	0.0005		8.804E-07	0.0009383	1.349	0.004	mg/L	N	0	1	NA	NA	NA	Non-parametric				5.00	0.005			
POZ-4	11/21	48%	0.00(5-0.0005	0.000638	0.00051	0.0011	0.00139	6.179E-08	0.0002486	0.3898	0.004	mg/L	N	0	0	No	No	NA		0.0005	N				N	0.005		
POZ-6	0/21	100%	0.00(5-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA		0.0005	N				N		N	No
POZ-7	13/21	38%	0.00(5-0.0005	0.000635	0.00058	0.00089	0.000935	2.286E-08	0.0001512	0.2382	0.004	mg/L	N	0	0	No	No	NA		0.0006	Y				N		N	No
CCR Appendix-IV: Cadmium, Total (mg/L)																											
CBW-1	0/22	100%	0.0035-0.004	0.000659	0.0005	0.0005		5.568E-07	0.0007462	1.132	0.005	mg/L	N	0	0	NA	NA	NA									
PM-1	0/22	100%	0.0035-0.005	0.000864	0.0005	0.003825		0.000001409	0.001187	1.374	0.005	mg/L	N	0	0	NA	NA	NA	NA				5.0	0.0050			
POZ-4	2/22	91%	0.0035-0.004	0.000678	0.0005	0.0007995	0.00081	5.553E-07	0.0007452	1.1	0.005	mg/L	N	0	0	Yes	No	NA		0.0005	N				N	0.005		
POZ-6	0/22	100%	0.0035-0.004	0.000659	0.0005	0.0005		5.568E-07	0.0007462	1.132	0.005	mg/L	N	0	0	NA	NA	NA		0.0005	N				N		N	No
POZ-7	1/22	95%	0.0035-0.004	0.000664	0.0005	0.000595	0.0006	5.558E-07	0.0007455	1.123	0.005	mg/L	N	0	0	No	No	NA		0.0005	N				N		N	No
CCR Appendix-IV: Chromium, Total (mg/L)																											
CBW-1	1/22	95%	0.0(5-0.005	0.00541	0.005	0.005	0.014	0.000003682	0.001919	0.3547	0.1	mg/L	N	0	0	No	No	NA									
PM-1	0/21	100%	0.0(5-0.005	0.005	0.005	0.005		0	0	0	0.1	mg/L	N	0	0	NA	NA	NA	Non-parametric				14.0	0.0140			
POZ-4	0/22	100%	0.0(5-0.005	0.005	0.005	0.005		0	0	0	0.1	mg/L	N	0	0	No	No	NA		0.005	N				N	0.100		
POZ-6	0/22	100%	0.0(5-0.005	0.005	0.005	0.005		0	0	0	0.1	mg/L	N	0	0	NA	NA	NA		0.005	N				N		N	No
POZ-7	1/22	95%	0.0(5-0.005	0.00504	0.005	0.005	0.0059	3.682E-08	0.0001919	0.03806	0.1	mg/L	N	0	0	No	No	NA		0.005	N				N		N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																											
CBW-1	22/23	4%	0.0(1-0.001	0.001	0.00086	0.001286	0.0034	3.034E-07	0.0005508	0.5481	0.006	mg/L	N	0	0	Yes	No	Decreasing									
PM-1	22/23	4%	0.0(5-0.005	0.00121	0.00098	0.001861	0.00189	7.505E-07	0.0008663	0.7182	0.006	mg/L	N	0	0	Yes	No	Increasing	Non-parametric				5.0	0.0050			
POZ-4	25/25	0%	-	0.0861	0.065	0.1978	0.21	0.003844	0.062	0.7204	0.006	mg/L	Y	24	0	No	No	NA		0.0779	Y	0.065			Y	0.006		Yes
POZ-6	22/22	0%	-	0.00302	0.003085	0.004975	0.0082	0.000002661	0.001631	0.5405	0.006	mg/L	Y	1	0	Yes	No	Stable		0.0016	Y				N		N	No
POZ-7	16/22	27%	0.00(5-0.0005	0.00108	0.000965	0.00237	0.0028	3.756E-07	0.0006129	0.5699	0.006	mg/L	N	0	0	Yes	No	Stable		0.0012	Y				N		N	No
CCR Appendix-IV: Fluoride (mg/L)																											
CBW-1	22/23	4%	0.1-0.1	0.21	0.2	0.289	0.3	0.002504	0.05004	0.2388	4	mg/L	N	0	0	No	No	Decreasing									
PM-1	0/23	100%	0.1-0.1	0.1	0.1	0.1		0	0	0	4	mg/L	N	0	0	NA	NA	NA	Non-parametric				300.0	0.300			
POZ-4	8/22	64%	0.1-0.1	0.109	0.1	0.1585	0.17	0.0003991	0.01998	0.1831	4	mg/L	N	0	0	Yes	No	Stable		0.100	N				N	4.00		
POZ-6	5/22	77%	0.1-0.1	0.111	0.1	0.15	0.16	0.0004468	0.02114	0.1905	4	mg/L	N	0	0	No	No	NA		0.100	N				N		N	No
POZ-7	7/22	68%	0.1-0.1	0.112	0.1	0.13	0.27	0.001342	0.03664	0.3263	4	mg/L	N	0	0	Yes	No	NA		0.100	N				N		N	No
CCR Appendix-IV: Lead, Total (mg/L)																											
CBW-1	22/23	4%	0.(1-0.01	0.00356	0.0028	0.009375	0.011	0.00000495	0.002225	0.6258	0.015	mg/L	N	0	0	Yes	No	Decreasing									
PM-1	0/23	100%	0.0(1-0.01	0.00204	0.001	0.00925		0.000006634	0.002576	1.26	0.015	mg/L	N	0	0	NA	NA	NA	Non-parametric				11.0	0.0110			
POZ-4	0/22	100%	0.0(1-0.01	0.00175	0.001	0.0025		0.000003804	0.00195	1.114	0.015	mg/L	N	0	0	NA	NA	NA		0.001	N				N	0.015		
POZ-6	0/22	100%	0.0(1-0.01	0.00175	0.001	0.0025		0.000003804	0.00195	1.114	0.015	mg/L	N	0	0	NA	NA	NA		0.001	N				N		N	No
POZ-7	0/22	100%	0.0(1-0.01	0.00175	0.001	0.0025		0.000003804	0.00195	1.114	0.015	mg/L	N	0	0	NA	NA	NA		0.001	N				N		N	No
CCR Appendix-IV: Lithium, Total (mg/L)																											
CBW-1	1/23	96%	0.0(5-0.02	0.00894	0.01	0.01	0.00066	0.00001302	0.003609	0.4035	0.04	mg/L	N	0	0	Yes	No	NA									
PM-1	3/23	87%	0.0(5-0.01	0.00867	0.01	0.01	0.00144	0.000005329	0.002308	0.2663	0.04	mg/L	N	0	0	No	No	NA	Non-parametric				20.0	0.020			
POZ-4	14/19	26%	0.(1-0.01	0.0134	0.0118	0.02116	0.0226	0.00001644	0.004055	0.3034	0.04	mg/L	N	0	0	No	No	Stable		0.015	Y				N	0.040		
POZ-6	5/19	74%	0.(1-0.01	0.0104	0.01	0.01137	0.0201	0.000005618	0.00237	0.2272	0.04	mg/L	N	0	0	Yes	No	NA		0.009	Y				N		N	No
POZ-7	3/19	84%	0.0(5-0.01	0.00946	0.01	0.0119	0.02	0.00001167	0.003417	0.3612	0.04	mg/L	N	0	0	No	No	NA		0.005	N				N		N	No
CCR Appendix-IV: Mercury, Total (mg/L)																											
CBW-1	0/23	100%	0.0002-0.001	0.000243	0.0002	0.00038		2.893E-08	0.0001701	0.6985	0.002	mg/L	N	0	0	NA	NA	NA									
PM-1	0/23	100%	0.0002-0.001	0.000252	0.0002	0.00056		3.352E-08	0.0001831	0.726	0.002	mg/L	N	0	0	NA	NA	NA	NA				1.0	0.0010			
POZ-4	0/19	100%	0.0002-0.001	0.000253	0.0002	0.00046		3.485E-08	0.0001867	0.739	0.002	mg/L	N	0	0	NA	NA	NA		0.0002	N				N	0.0020		
POZ-6	0/19	100%	0.0002-0.001	0.000242	0.0002	0.00028		3.368E-08	0.0001835	0.7581	0.002	mg/L	N	0	0	NA	NA	NA		0.0002	N				N		N	No
POZ-7	2/19	89%	0.0002-0.001	0.000254	0.0002	0.0004402	0.000378	3.436E-08	0.0001854	0.7295	0.002	mg/L	N	0	0	Yes	No	NA		0.0002	N				N		N	No
CCR Appendix-IV: Molybdenum, Total (mg/L)																											
CBW-1	0/21	100%	0.0(5-0.02	0.00929	0.01	0.01		0.00001071	0.003273	0.3525	0.1	mg/L	N	0	0	NA	NA	NA									
PM-1	0/21	100%	0.0(5-0.01	0.00881	0.01	0.01		0.000004762	0.002182	0.2477	0.1	mg/L	N	0	0	NA	NA	NA	NA				20.0	0.020			
POZ-4	0/19	100%	0.0(5-0.01	0.00868	0.01	0.01		0.000005117	0.002262	0.2605	0.1	mg/L	N	0	0	NA	NA	NA		0.005	N				N	0.10		
POZ-6	0/19	100%	0.0(5-0.01	0.00868	0.01	0.01		0.000005117	0.002262	0.2605	0.1	mg/L	N	0	0	NA	NA	NA		0.005	N				N		N	No
POZ-7	0/19	100%	0.0(5-0.01	0.00868	0.01	0.01		0.000005117	0.002262	0.2605	0.1	mg/L	N	0	0	NA	NA	NA		0.005	N				N		N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																											
CBW-1	15/22	32%	4-4	3.19	4	5.3	6.14	2.769	1.664	0.5215	5	pCi/L	Y	4	0	No	No	Decreasing									
PM-1	16/22	27%	4-4	3.83	3.85	6.965	16.3	10.03	3.167	0.8275	5	pCi/L	Y	2	0	Yes	No	Decreasing	Non-parametric				16.3	16.3		16.3		
POZ-4	14/21	33%	4-4	3.32	4	4.95	6.29	2.221	1.49	0.4498	5	pCi/L	Y	1	0	No	No	Stable		2.393	Y				N		N	No
POZ-6	13/21	38%	4-4	2.73	4	4.6	4.78	2.397	1.548	0.5665	5	pCi/L	N	0	0	No	No	Decreasing		1.050	Y				N		N	No
POZ-7	18/21	14%	4-4	3.3	4	4.88	5.39	2.211	1.487	0.4513	5	pCi/L	Y	1	0	No	No	Stable		1.089	Y				N		N	No
CCR Appendix-IV: Selenium, Total (mg/L)																											
CBW-1	0/23	100%	0.0(25-0.05	0.0125	0.01	0.02		0.00007913	0.008895	0.7102	0.05	mg/L	N	0	1	NA	NA	NA									
PM-1	0/23	100%	0.0(25-0.02	0.0108	0.01	0.02		0.00001672	0.00409	0.38	0.05	mg/L	N	0	0	NA	NA	NA	NA				50.0	0.050			
POZ-4	0/22	100%	0.0(25-0.02	0.0106	0.01	0.02		0.00001901	0.00436	0.4125	0.05	mg/L	N	0	0	NA	NA	NA		0.0(0	N				N	0.050		
POZ-6	0/22	100%	0.0(25-0.02	0.0106	0.01	0.02		0.00001901	0.00436	0.4125	0.05	mg/L	N	0	0	NA	NA	NA		0.0(0	N				N		N	No
POZ-7	0/22	100%	0.0(25-0.02	0.0106	0.01	0.02		0.00001901	0.00436	0.4125	0.05	mg/L	N	0	0	NA	NA	NA		0.0(0	N				N		N	No
CCR Appendix-IV: Thallium, Total (mg/L)																											
CBW-1	0/21	100%	0.0(1-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA									
PM-1	0/21	100%	0.0(1-0.01	0.00143	0.001	0.001		0.000003857	0.001964	1.375	0.002	mg/L	N	0	1	NA	NA	NA	NA				10.0	0.010		0.010		
POZ-4	0/19	100%	0.0(1-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA		0.001	N				N		N	No
POZ-6	0/19	100%	0.0(1-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA		0.001	N				N		N	No
POZ-7	0/19	100%	0.0(1-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA		0.001	N				N		N	No

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TECHNICAL MEMORANDUM

4 October 2024
File No. 0132892-102-001-02

SUBJECT: Summary of Groundwater Monitoring Statistical Analysis
South Carolina Department of Environmental Services (SCDES) – June 2024 Sampling Results
Cross Generating Station, Class 3 Landfill, Permit #LF3-00007

The results of analytical testing performed on samples collected in June 2024 from the groundwater monitoring network at the Cross Generating Station Class 3 Landfill were evaluated to determine whether there has been a Statistically Significant Increase (SSI) over background for one or more monitored constituents. The statistical evaluation was performed in accordance with the South Carolina (SC) Regulations R.61-107.19 Part V, Subpart E, Section 258.53.g and SCDES Permit #LF3-00007. Data for this groundwater sampling event were validated by Santee Cooper on August 6, 2024.

To statistically evaluate the analytical results, the upper tolerance limit (UTL) was selected to assess the data. The UTL method is one of the five methods outlined in Part V, Subpart E, Section 258.53.g of SC Regulation R.61-107.19. A tolerance limit procedure is one in which a concentration limit for each constituent is established from the distribution of the background data with a specified confidence level (e.g., 99 percent). The upper endpoint of a concentration limit is called the UTL. Depending on the background data distribution, parametric or non-parametric tolerance limit procedures are used to evaluate groundwater monitoring data using this method.

Parametric tolerance limits use normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the tolerance limit. If all the background data are non-detect, a maximum reporting limit (RL) may serve as an approximate UTL. In the case of the Class 3 Landfill, the statistical analysis was conducted using parametric and non-parametric tolerance limits (Table 1).

Per the United States Environmental Protection Agency document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance, March 2009), interwell background limits are updated when a minimum of four new, valid data points are collected. Background concentrations were updated after the January 2023 sampling event in accordance with the Unified Guidance. With the June 2024 sampling event, there are now three new valid data points.

After establishing background conditions, the June 2024 analytical results for each constituent at each downgradient monitoring well were compared to the UTL of that constituent to ascertain whether a SSI has occurred. Table 2 presents the statistical analysis summary for the downgradient monitoring wells.

Based on the comparison of the June 2024 sample results to their respective UTLs, and either the Maximum Concentration Limit (MCL) or Secondary MCLs for the Class 3 Landfill at the Cross Generating Station, the following observations are noted for the June 2024 sample event results:

- CLF1B-1, CLF1B-2, and CLF1B-4: total dissolved solids (TDS) exceeded the UTL and secondary MCL; and
- CLF1B-3 and CLF1B-5: TDS, iron and sulfate exceeded the UTL and secondary MCL.

Generally consistent with previous sampling results, measured concentrations of iron, sulfate, and TDS remain within the range of historical concentrations detected downgradient of the Class 2 Landfill (e.g., POZ-1) prior to the construction of the Class 3 Landfill, indicating an alternate source for these constituents. This is consistent with findings of both the initial alternate source demonstration (ASD) completed in April 2018 and the second ASD completed March 2023 for Appendix III constituents of the CCR Rule for the Class 3 Landfill. Therefore, conditions observed post-construction and operations appear to be consistent with the pre-construction conditions and do not indicate a contribution from the Class 3 Landfill.

Semiannual groundwater monitoring of the Class 3 Landfill will continue with the next sampling event scheduled for January 2025. The next update to the background concentrations will be completed after the January 2025 sampling event in accordance with the Unified Guidance.

Attachments:

Table 1 – Upper Tolerance Limit and Summary Statistical Evaluations for June 2024 Background Well Data
Table 2 – Comparison of June 2024 Groundwater Sample Results to Drinking Water Criteria and Upper Tolerance Limits

TABLES

TABLE 1
UPPER TOLERANCE LIMIT AND SUMMARY STATISTICAL EVALUATIONS FOR JUNE 2024 BACKGROUND WELL DATA
CROSS GENERATING STATION
CGS CLASS 3 LANDFILL, SOLID WASTE PERMIT #LF3-00007

Background Well	Sample Date	Arsenic µg/L	Barium µg/L	Boron µg/L	Cadmium µg/L	Chloride mg/L	Chromium µg/L	Iron µg/L	Lead µg/L	Nitrate mg/L	pH	Selenium µg/L	Spec. Cond. µS	Sulfate mg/L	Temp C	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	Turbidity NTU	Zinc µg/L
CBW-1	10/19/2015	16	61	32	ND(<0.5)	3.21	14	5900	11	-	4.46	ND(<20.0)	243	81.5	21.36	150	-	285	-
CBW-1	1/26/2016	6.7	44	21.8	ND(<0.5)	2.95	ND(<5.0)	54	3.6	ND(<0.1)	4.13	ND(<20.0)	240	88.2	17.09	120	2.94	8.4	ND(<20.0)
CBW-1	4/19/2016	ND(<5.0)	43.8	18.3	ND(<0.5)	2.33	ND(<5.0)	ND(<50.0)	2.8	-	4.33	ND(<10.0)	220	86	18.73	120	-	0	-
CBW-1	7/18/2016	ND(<5.0)	37.8	21.7	ND(<0.5)	2.95	ND(<5.0)	66.4	3.18	ND(<0.1)	4.39	ND(<10.0)	2390	90.1	22.89	132	2.45	0	ND(<10.0)
CBW-1	10/11/2016	5.37	47.3	30.2	ND(<0.5)	3	ND(<5.0)	ND(<50.0)	3.75	-	4.15	ND(<10.0)	197	73.7	19.9	151.7	-	4.6	-
CBW-1	1/23/2017	ND(<5.0)	42.1	24.9	ND(<0.5)	2.45	ND(<5.0)	ND(<50.0)	3.1	ND(<0.1)	4.32	ND(<10.0)	214	77.7	16.66	148	2.89	2.1	ND(<10.0)
CBW-1	4/17/2017	ND(<5.0)	41.8	18	ND(<0.5)	2.96	ND(<5.0)	95.5	2.8	-	4.26	ND(<10.0)	201	71.2	22.56	62	-	2	-
CBW-1	7/25/2017	ND(<5.0)	42.1	22	ND(<0.5)	2.61	ND(<5.0)	90	3.2	ND(<0.1)	4.22	ND(<10.0)	191	73.3	24.35	92	2.39	0	ND(<10.0)
CBW-1	9/25/2017	ND(<5.0)	44	24	ND(<0.5)	2.51	ND(<5.0)	ND(<50.0)	3.2	-	4.34	ND(<10.0)	182	74.5	25.12	ND(<40.0)	-	0	-
CBW-1	10/9/2017	-	-	23	-	2.73	-	-	-	-	4.25	-	203	76.8	25.06	115	-	0	-
CBW-1	2/7/2018	ND(<5.0)	43.6	18	ND(<0.5)	2.88	ND(<5.0)	65.7	2.7	ND(<0.1)	4.42	ND(<10.0)	199	69.1	19.15	92	2.76	0.9	ND(<10.0)
CBW-1	6/20/2018	ND(<5.0)	43	20	ND(<0.5)	3	ND(<5.0)	82	3	ND(<0.1)	4.32	ND(<10.0)	196	67.9	22.69	138.8	2.06	1.9	24
CBW-1	10/1/2018	ND(<5.0)	42.8	25	-	2.71	-	-	3.1	-	4.09	ND(<10.0)	196	65.5	23.78	107.5	-	0	-
CBW-1	2/12/2019	ND(<5.0)	42.7	ND(<15.0)	ND(<0.5)	2.68	ND(<5.0)	87.3	2.5	0.14	4.5	ND(<10.0)	202	69.1	18.04	135	2.69	0.5	ND(<10.0)
CBW-1	5/20/2019	-	-	-	-	2.9	-	141	-	-	4.5	-	202	115	18.04	181.2	2.71	0.5	-
CBW-1	2/24/2020	ND(<5.0)	41.3	17	ND(<0.5)	3.25	ND(<5.0)	ND(<50.0)	2.7	0.25	4.09	ND(<10.0)	231	79.8	17.01	107.5	2.47	0	ND(<10.0)
CBW-1	6/22/2020	ND(<5.0)	43.3	18	ND(<0.5)	3.44	ND(<5.0)	79.8	2.6	0.43	4.48	ND(<10.0)	218	79.9	25.75	147.5	2.1	0	ND(<10.0)
CBW-1	1/26/2021	ND(<5.0)	46.6	18	ND(<0.5)	3.22	ND(<5.0)	64.6	2.5	ND(<0.1)	4.31	ND(<10.0)	192	80.7	20.25	138.8	2.43	0	ND(<10.0)
CBW-1	6/21/2021	ND(<5.0)	42.3	ND(<40.0)	ND(<0.5)	3.05	ND(<5.0)	135	2.6	0.35	4.25	ND(<10.0)	194	86.6	24.16	178.8	2.11	0.2	ND(<10.0)
CBW-1	1/24/2022	ND(<3.0)	37.7	13.9	ND(<0.5)	3.21	ND(<5.0)	66	2.7	0.29	4.26	ND(<15.6)	222	82.8	18.63	130	1.81	21.4	ND(<10.0)
CBW-1	6/20/2022	ND(<5.0)	33	15	ND(<4.0)	3.79	ND(<5.0)	140	ND(<10.0)	0.97	4.45	ND(<50.0)	1	78.3	26.04	143.8	2.36	90.3	ND(<10.0)
CBW-1	10/25/2022	ND(<3.0)	46.6	20.3	ND(<0.5)	3.78	ND(<5.0)	ND(<100.0)	3.2	-	4.31	ND(<10.0)	190	80.4	24.3	110	1.64	0	-
CBW-1	1/24/2023	ND(<3.0)	42.5	17.5	ND(<0.5)	3	ND(<5.0)	ND(<100.0)	2.59	0.71	4.23	ND(<2.5)	181	84.2	18.2	142.5	2.28	0	241
Assumed Data Distribution for Calculation of UTL		Non-parametric	Normal	Normal (Log-transformed)	Non-parametric	Normal	Non-parametric	Non-parametric	Normal	Non-parametric	Normal	Non-parametric	Normal	Normal (Log-transformed)	Normal	Normal	Normal	Non-parametric	Non-parametric
95% Upper Tolerance Limit with 95% coverage		6.70	48.21	31.50	4	3.64	5	141	3.58	0.97	4.52	50	231.53	98.72	26.98	182.96	3.01	90.3	241
Minimum Detection		5.37	33	13.9	N/A	2.33	N/A	54	2.5	0.14	4.09	N/A	1	65.5	16.66	62	1.64	0	24
Maximum Detection		6.7	47.3	30.2	N/A	3.79	N/A	141	3.75	0.97	4.5	N/A	2390	115	26.04	181.2	2.94	90.3	241
Mean Detection		6.04	42.42	20.35	N/A	2.97	N/A	89.79	2.95	0.45	4.30	N/A	293.73	79.58	21.29	128.29	2.37	6.04	132.50
Frequency of Detection		10%	100%	90%	0%	100%	0%	65%	100%	50%	100%	0%	100%	100%	100%	95%	100%	100%	14%

Notes:
The results for background well CBW-1 dated October 19, 2015 were omitted from the background calculations because elevated tubidity in the sample caused elevated metals concentrations that were not representative of groundwater conditions
- *Not recorded*
Red text: *Removed as an outlier based on Dixon's Outlier test at 5% significant level*

TABLE 2
COMPARISON OF JUNE 2024 GROUNDWATER SAMPLE RESULTS TO DRINKING WATER CRITERIA AND UPPER TOLERANCE LIMITS
CROSS GENERATING STATION
CGS CLASS 3 LANDFILL, SOLID WASTE PERMIT #LF3-00007

Downgradient Well	Sample Type	Sample Date	Arsenic µg/L	Barium µg/L	Boron µg/L	Cadmium µg/L	Chloride mg/L	Chromium µg/L	Iron µg/L	Lead µg/L	Nitrate mg/L	pH SU	Selenium µg/L	Specific Conductivity uS/cm	Sulfate mg/L	Temperature Deg C	Total Dissolved Solids (TDS) mg/L	Total Organic Carbon (TOC) mg/L	Turbidity NTU	Zinc µg/L
95% Upper Tolerance Limit with 99% coverage			6.70	48.21	31.50	4	3.64	5	141	3.58	0.97	4.52	50	231.53	98.72	26.98	182.96	3.01	90.3	241
Maximum Contaminant Level			10	2000	-	5	-	100	-	-	-	-	50	-	-	-	-	-	-	5000
Secondary Maximum Contaminant Level			-	-	-	-	250	-	300	-	-	-	-	-	250	-	500	-	-	-
CLF1B-1	Normal	10/21/2015	< 3	230	< 15	< 0.5	38.7	< 5	130	< 2.5	-	6.44	< 20	961	123	21.91	594	-	0	
CLF1B-1	Normal	2/1/2016	< 3	270	< 15	< 0.5	39.7	< 5	< 50	< 2.5	< 0.1	6.55	< 20	975	136	16.95	602	2.23	0	23
CLF1B-1	Normal	4/19/2016	< 5	232	< 15	< 0.5	39.2	< 5	70.3	< 1	-	6.67	< 10	918	136	18.43	558.3	-	0	-
CLF1B-1	Duplicate	4/19/2016	< 5	241	< 15	< 0.5	38.9	< 5	55.4	< 1	-	-	< 10	-	136	-	555	-	-	-
CLF1B-1	Normal	7/18/2016	< 5	198	< 15	< 0.5	41.5	< 5	129	< 1	< 0.1	6.53	< 10	8600	134	24.62	574	2.12	0	< 10
CLF1B-1	Duplicate	7/18/2016	< 5	203	< 15	< 0.5	40.8	< 5	123	< 1	< 0.1	-	< 10	-	135	-	596	2.31		< 10
CLF1B-1	Normal	10/13/2016	< 5	206	< 15	< 0.5	41	< 5	127	< 1	-	6.6	< 10	897	153	22.45	651.7	-	0	-
CLF1B-1	Duplicate	10/13/2016	< 5	202	< 15	< 0.5	40.2	< 5	105	< 1	-	-	< 10	-	149	-	496.7	-	-	-
CLF1B-1	Normal	1/30/2017	< 5	182	< 15	< 0.5	38.7	< 5	54.1	< 1	< 0.1	6.68	< 10	969	153	12.50	602	2.54	0.9	14.5
CLF1B-1	Duplicate	1/30/2017	< 5	198	< 15	< 0.5	38.6	< 5	57.9	< 1	< 0.1	-	< 10	-	151	-	578	2.44	-	13.6
CLF1B-1	Normal	4/17/2017	< 5	184	16	< 0.5	34.2	< 5	65.1	< 1	-	6.58	< 10	906	150	22.38	556	-	0	-
CLF1B-1	Duplicate	4/17/2017	< 5	181	< 15	< 0.5	33.9	< 5	64.6	< 1	-	-	< 10	-	154	-	696	-	-	-
CLF1B-1	Normal	7/26/2017	< 5	162	< 15	< 0.5	38.9	< 5	325	< 1	< 0.1	6.63	< 10	849	129	21.58	614	2.31	0	12.4
CLF1B-1	Normal	9/25/2017	< 5	158	< 15	< 0.5	38.9	< 5	291	< 1	-	6.67	< 10	942	135	23.59	498	-	0	-
CLF1B-1	Duplicate	9/25/2017	< 5	162	< 15	< 0.5	38.7	< 5	252	< 1	-	-	< 10	-	136	-	548	-	-	-
CLF1B-1	Normal	10/13/2017	-	-	15	-	37.4	-	-	-	-	6.32	-	991	131	22.66	581.7	-	0	-
CLF1B-1	Duplicate	10/13/2017	-	-	15	-	36.9	-	-	-	-	-	-	-	130	-	650	-	-	-
CLF1B-1	Normal	2/19/2018	< 5	171	< 15	< 0.5	34.4	< 5	174	< 1	< 0.1	-	< 10	992	145	17.30	648.6	3.27	0	11.2
CLF1B-1	Normal	6/27/2018	< 5	170	< 15	0.7	39.3	< 5	130	< 1	0.22	6.58	< 10	957	143	19.85	585	2.37	0	25
CLF1B-1	Duplicate	6/27/2018	< 5	167	< 15	< 0.5	38	< 5	130	< 1	0.15	-	< 10	-	138	-	596.2	2.13	-	19
CLF1B-1	Normal	2/12/2019	< 5	155	< 15	< 0.5	36.3	< 5	92.6	< 1	0.26	6.82	< 10	946	139	17.62	617.5	2.14	0	< 10
CLF1B-1	Duplicate	2/12/2019	< 5	158	< 15	< 0.5	36.8	< 5	114	< 1	0.31	-	< 10	-	137	-	617.5	2.28	-	< 10
CLF1B-1	Normal	7/8/2019	< 5	160	< 15	< 0.5	40.6	< 5	-	< 1	-	6.47	< 10	888	144	20.61	580	-	0	-
CLF1B-1	Duplicate	7/8/2019	< 5	163	< 15	< 0.5	38	< 5	-	< 1	-	-	< 10	-	144	-	602.5	-	-	
CLF1B-1	Normal	2/24/2020	< 5	154	< 15	< 0.5	37.3	< 5	156	< 1	< 0.1	6.47	< 10	973	159	15.26	558.8	2.31	0	< 10
CLF1B-1	Duplicate	2/24/2020	< 5	153	< 15	< 0.5	37.7	< 5	199	< 1	< 0.1	-	< 10	-	150	-	570	2.22	-	13.7
CLF1B-1	Normal	6/22/2020	< 5	137	< 15	< 0.5	33.2	< 5	77.5	< 1	< 0.1	6.76	< 10	840	133	25.86	577.5	2.6	0	10.8
CLF1B-1	Duplicate	6/22/2020	< 5	139	< 15	< 0.5	32.8	< 5	85.6	< 1	< 0.1	-	< 10	-	132	-	605	2.4	-	< 10
CLF1B-1	Normal	1/26/2021	< 5	134	< 15	< 0.5	34	< 5	105	< 1	< 0.1	6.84	< 10	792	132	18.90	556.2	2.45	0.7	< 10
CLF1B-1	Duplicate	1/26/2021	< 5	136	< 15	< 0.5	33.8	< 5	< 50	< 1	< 0.1	-	< 10	-	133	-	580	2.56	-	< 10
CLF1B-1	Normal	6/22/2021	< 5	144	< 15	< 0.5	41	< 5	< 50	< 1	< 0.1	6.66	< 10	774	133	21.29	583.8	2.3	1.7	< 10
CLF1B-1	Duplicate	6/22/2021	< 5	141	< 15	< 0.5	39.1	< 5	62.3	< 1	< 0.1	-	< 10	-	128	-	600	2.37	-	< 10
CLF1B-1	Normal	1/24/2022	< 10	130	< 40	< 10	42.2	< 10	131	< 10	< 0.1	6.74	< 50	866	154	19.67	568.8	1.85	7.6	< 10
CLF1B-1	Duplicate	1/24/2022	< 3	128	< 10	< 0.5	42.4	< 5	98.3	< 2.5	< 0.1	-	< 5	-	147	-	586.2	1.88	-	< 10
CLF1B-1	Primary	6/27/2022	< 5	130	< 15	< 4	42.4	< 5	130	< 10	< 0.1	6.78	< 20	937	149	20.63	583.8	1.7	1.8	< 10
CLF1B-1	Duplicate	6/27/2022	< 5	120	< 15	< 4	42.1	< 5	< 50	< 10	< 0.1	-	< 20	-	146	-	586.2	1.93	-	< 10
CLF1B-1	Primary	10/31/2022	< 3	129	12.7	< 0.5	36.7	< 5	< 100	< 2.5	< 0.1	6.55	< 5	775	134	24.45	576.2	1.71	0	-
CLF1B-1	Duplicate	10/31/2022	< 3	134	12.1	< 0.5	36.6	< 5	< 100	< 2.5	< 0.1	-	< 10	-	133	-	578.8	1.96	-	-
CLF1B-1	Primary	1/26/2023	< 3	127	14.2	< 0.5	33.9	< 5	< 100	< 2.5	< 0.1	6.62	< 2.5	665	136	17.12	635	2.33	0	25.3
CLF1B-1	Duplicate	1/26/2023	< 3	135	14	< 0.5	37.3	< 5	< 100	< 2.5	< 0.1	-	< 2.5	-	132	-	606.2	2.44	-	96.1
CLF1B-1	Primary	6/12/2023	< 5	119	11	< 0.5	33.6	< 5	52.4	< 1	< 0.1	6.50	< 10	858	141	21.21	608.8	2.33	0	< 10
CLF1B-1	Duplicate	6/12/2023	< 5	126	< 10	< 0.5	33.6	< 5	52.8	< 1	< 0.1	-	< 10	-	123	-	598	2.3		< 10
CLF1B-1	Primary	1/22/2024	< 5	130	15.6	< 0.5	28.2	< 5	< 50	< 1	< 0.1	6.55	< 10	1010	155	14.28	617.5	2.48	1.5	< 10
CLF1B-1	Duplicate	1/22/2024	< 5	125	16.2	< 0.5	28.1	< 5	< 50	< 1	< 0.1	-	< 10	-	159	-	610	2.38		< 10
CLF1B-1	Primary	6/4/2024	< 5	129	14.5	< 0.5	30.4	< 5	70.5	< 1	< 0.1	6.27	< 10	941	160	24.88	607.5	2.34	0	< 10
CLF1B-1	Duplicate	6/4/2024	< 5	131	15.3	< 0.5	30.1	< 5	67.6	< 1	< 0.1	-	< 10	-	158	-	673.8	2.14	-	< 10
CLF1B-2	Normal	10/21/2015	< 3	160	18.6	< 0.5	62.7	< 5	2100	< 2.5	-	7.09	< 20	714	22.4	21.84	472	-	0	
CLF1B-2	Duplicate	10/21/2015	< 3	160	19.1	< 0.5	62.3	< 5	950	< 2.5	-	-	< 20	-	21.5	-	470	-		
CLF1B-2	Normal	2/1/2016	< 3	170	< 15	< 0.5	64.6	< 5	< 50	< 2.5	< 0.1	6.79	< 20	683	19.6	18.16	433	1.14	0	< 20
CLF1B-2	Normal	4/19/2016	< 5	157	15.2	< 0.5	66.6	< 5	219	< 1		6.92	< 10	643	16.3	19.36	415	-	0	-
CLF1B-2	Normal	7/19/2016	< 5	147	39.8	< 0.5	70.9	< 5	603	< 1	< 0.1	6.93	< 10	6580	13.7	22.64	512	1.15	0	< 10
CLF1B-2	Normal	10/13/2016	< 5	153	15.7	< 0.5	69	< 5	378	< 1	-	6.88	< 10	642	13.3	24.38	486.7	-	0	-
CLF1B-2	Normal	1/30/2017	< 5	157	16.2	< 0.5	70.4	< 5	106	< 1	< 0.1	6.85	< 10	701	13	13.51	462	1.56	0	< 10
CLF1B-2	Normal	4/17/2017	< 5	149	18	< 0.5	69.7	< 5	224	< 1	-	6.91	< 10	675	16.4	21.33	390	-	0	-
CLF1B-2	Normal	7/26/2017	< 5	154	16	< 0.5	74.7	< 5	413	< 1	< 0.1	6.89	< 10	619	12.4	27.80	512	1.29	0	< 10
CLF1B-2	Normal	9/25/2017	< 5	153	16	< 0.5	76	< 5	378	< 1	-	6.97	< 10	713	12.5	23.42	398	-	0	-
CLF1B-2	Normal	10/11/2017	-	-	17	-	74.1	-	-	-	-	7.08	-	712	12.9	27.82	396.7	-	0.8	-
CLF1B-2	Normal	2/19/2018	< 5	158	20	< 0.5	75.8	< 5	205	< 1	< 0.1	6.79	< 10	722	13.2	18.51	524.3	1.3	0	26.8
CLF1B-2	Normal	6/27/2018	< 5	155	< 15	< 0.5	78	< 5	330	< 1	< 0.1	6.88	< 10	701	12.9	26.12	535	< 1	0	17
CLF1B-2	Normal	2/12/2019	< 5	190	16	< 0.5	80.1	< 5	221	< 1	< 0.1	7.07	< 10	720	13.5	19.87	476.2	1.35	0	< 10
CLF1B-2	Normal	7/8/2019	< 5	173	17	< 0.5	39.6	< 5	-	< 1	-	6.61	< 10	734	12.5	22.09	545	-	0	-
CLF1B-2	Normal	2/24/2020	< 5	168	15	< 0.5	82.5	< 5	247	< 1	< 0.1	6.67	< 10	784	13.9	14.57	455	1.35	1.1	< 10
CLF1B-2	Normal	6/22/2020	< 5	175	< 15	< 0.5	82.6	< 5	404	< 1	< 0.1	7.01	< 10	717	13.5	25.74	535	1.3	0	< 10
CLF1B-2	Normal	1/26/2021	< 5	174	17	< 0.5	84.1	< 5	207	< 1	< 0.1	6.97	< 10	660	14.6	20.20	485	1.33	0	< 10
CLF1B-2	Normal	6/22/2021	< 5	178	16	< 0.5	90.2	< 5	238	< 1	0.19	6.83	< 10	670	14.7	20.72	597.5	1.31	0	< 10
CLF1B-2	Primary	1/24/2022	< 3	161	16.8	< 0.5	86.4	< 5	142	< 2.5	< 0.1	6.97	< 5	709	14.4	20.77	436.2	1.36	1.9	< 10
CLF1B-2	Primary	6/27/2022	< 5	160	20	< 4	89.3	< 5	280	< 10	< 0.1	6.85	< 20	771	15.3	20.22	571.2	1.37	3.7	< 10
CLF1B-2	Primary	10/31/2022	< 3	184	20.2	< 0.5	87.9	< 5	402	< 2.5	< 0.1	6.81	< 5	628	14.1	25.37	536.2	< 1	0	-
CLF1B-2	Primary	1/25/2023	< 3	177	19.9	< 0.5	86.9	< 5	165	< 2.5	< 0.1	6.77	< 2.5	577	14.5	19.24	580	1.12	0	< 20
CLF1B-2	Primary	6/12/2023	< 5	171	< 10	< 0.5	89.8	< 5	268	< 1	< 0.1	6.83	< 10	745	14.6	21.09	661.2	1.36	0	< 10
CLF1B-2	Primary	1/22/2024	< 5	178	24.1	< 0.5	93.1	< 5	163	< 1	< 0.1	6.78	< 10	844	16.5	14.53	610	1.31	7.8	< 10
CLF1B-2	Primary	6/4/2024	< 5	167	24.7	< 0.5	93.2	< 5	224	< 1	< 0.1	6.5	< 10	749	15	25.01	626.2	< 1	0	< 10
CLF1B-3	Normal	10/22/2015	< 3	110	17.2	< 0.5	26.8	< 5	< 50	< 2.5	-	6.94	< 20	552	33	19.69	326	-	1.1	-
CLF1B-3	Duplicate	10/22/2015	< 3	110	17.4	< 0.5	27.2	< 5	< 50	< 2.5	-	-	< 20	-	35.4	-	320	-		
CLF1B-3	Normal	2/1/2016	< 3	120	18.9	< 0.5	22.4	< 5	< 50	< 2.5	< 0.1	6.71	< 20	693	107	18.71	447	3.41	0	< 20
CLF1B-3	Normal	4/19/2016	< 5	107	24.6	< 0.5	22.1	< 5	423	< 1	-	6.82	< 10	775	116	19.57	5355	-	0	-
CLF1B-3	Normal	7/19/2016	< 5	118	41.7	< 0.5	23.5	< 5	1754	< 1	< 0.1	6.58	< 10	9710	203	22.87	686	4.75	0	< 10
CLF1B-3	Normal	10/13/2016	< 5	97.9	25.8	< 0.5	25.2	< 5	109	< 1	-	6.6	< 10	574	63.9	25.30	276.7	-	0	-
CLF1B-3	Normal	1/30/2017	< 5	93.6	25	< 0.5	23	< 5	63.1	< 1	< 0.1	6.81	< 10	653	84.4	15.19	430	2.34	0	< 10
CLF1B-3	Normal	4/17/2017	< 5	123	27	< 0.5	20.8	< 5	998	< 1	-	6.76	< 10	787	159	23.05	452	-	9	-
CLF1B-3	Normal	7/26/2017	< 5	129	47	< 0.5	22	< 5	1510	< 1	< 0.1	6.57	< 10	849	194	26.81	674	4.15	0	< 10
CLF1B-3	Normal	9/25/2017	< 5	126	50	< 0.5	22.7	< 5	952	< 1	-	6.74	< 10	951	174	23.71	530	-	0	-
CLF1B-3	Normal	10/11/2017	-	-	64	-	24.8	-	-	-	-	6.66	-	1050	226	24.81	621.7	-	0	-
CLF1B-3	Normal	2/19/2018	< 5	117	31	< 0.5	23	< 5	653	< 1	< 0.1	6.73	< 10	786	132	19.17	542.9	3.17	2.2	< 10

TABLE 2
COMPARISON OF JUNE 2024 GROUNDWATER SAMPLE RESULTS TO DRINKING WATER CRITERIA AND UPPER TOLERANCE LIMITS
CROSS GENERATING STATION
CGS CLASS 3 LANDFILL, SOLID WASTE PERMIT #LF3-00007

Downgradient Well	Sample Type	Sample Date	Arsenic µg/L	Barium µg/L	Boron µg/L	Cadmium µg/L	Chloride mg/L	Chromium µg/L	Iron µg/L	Lead µg/L	Nitrate mg/L	pH SU	Selenium µg/L	Specific Conductivity uS/cm	Sulfate mg/L	Temperature Deg C	Total Dissolved Solids (TDS) mg/L	Total Organic Carbon (TOC) mg/L	Turbidity NTU	Zinc µg/L
95% Upper Tolerance Limit with 99% coverage			6.70	48.21	31.50	4	3.64	5	141	3.58	0.97	4.52	50	231.53	98.72	26.98	182.96	3.01	90.3	241
Maximum Contaminant Level			10	2000	-	5	-	100	-	-	-	-	50	-	-	-	-	-	-	5000
Secondary Maximum Contaminant Level			-	-	-	-	250	-	300	-	-	-	-	-	250	-	500	-	-	-
CLF1B-3	Normal	6/27/2018	< 5	122	48	< 0.5	34.2	< 5	2100	< 1	0.15	6.67	< 10	931	166	27.71	656.2	3.25	0	20
CLF1B-3	Normal	2/12/2019	< 5	134	44	< 0.5	29	< 5	1110	< 1	0.3	6.82	< 10	975	191	20.00	651.2	3.93	0	< 10
CLF1B-3	Normal	7/8/2019	< 5	136	40	< 0.5	81.2	< 5	-	< 1	-	6.53	< 10	1080	13	22.27	755	-	0	-
CLF1B-3	Normal	2/24/2020	< 5	94.3	37	< 0.5	26	< 5	1230	< 1	< 0.1	6.43	< 10	693	95.2	14.44	388.8	2.16	5	< 10
CLF1B-3	Normal	6/22/2020	< 5	115	39	< 0.5	23.7	< 5	1860	< 1	< 0.1	6.79	< 10	839	196	25.90	583.8	2.4	0	20.3
CLF1B-3	Normal	1/26/2021	< 5	97.8	34	< 0.5	23.6	< 5	322	< 1	< 0.1	6.76	< 10	721	177	20.38	562.5	2.42	2.5	< 10
CLF1B-3	Normal	6/22/2021	< 5	107	80	< 0.5	27.6	< 5	7030	< 1	< 0.1	6.61	< 10	1020	349	21.74	837.5	3.57	0	< 10
CLF1B-3	Primary	1/24/2022	< 3	72	71	< 0.5	23.7	< 5	2260	< 2.5	< 0.1	6.62	< 5	845	245	22.75	643.8	2.47	28.3	< 10
CLF1B-3	Primary	6/27/2022	< 5	76	120	< 4	22.8	< 5	4000	< 10	< 0.1	6.73	< 20	1150	355	21.36	791.2	2.74	4.9	< 10
CLF1B-3	Primary	10/31/2022	< 3	80.4	140	< 0.5	18	< 5	2080	< 2.5	< 0.1	6.68	< 5	941	338	24.61	787.5	2.47	0	-
CLF1B-3	Primary	1/25/2023	< 3	64.5	67.2	< 0.5	19.3	< 5	2140	< 2.5	< 0.1	6.61	< 2.5	679	246	18.85	637.5	2.39	7	< 20
CLF1B-3	Primary	6/12/2023	< 5	70.9	181	< 0.5	15.6	< 5	8410	< 1	< 0.1	6.67	< 10	1130	380	22.59	898.8	2.38	152	< 10
CLF1B-3	Primary	1/22/2024	< 5	52	96.8	< 0.5	18.8	< 5	2500	< 1	< 0.1	6.61	< 10	940	247	15.87	642.5	2.16	0	< 10
CLF1B-3	Primary	6/6/2024	< 5	67.5	101	< 0.5	42.3	< 5	2580	< 1	< 0.1	6.69	< 10	1130	270	20.26	810	2.16	0	< 10
CLF1B-4	Normal	10/22/2015	< 3	45	27.2	< 0.5	51.1	< 5	160	< 2.5	-	7.17	< 20	610	34.3	19.92	350		45.3	
CLF1B-4	Normal	1/27/2016	< 3	55	29.2	< 0.5	51.1	< 5	< 50	< 2.5	< 0.1	7.37	< 20	469	31.1	15.72	375	2.24	20.4	< 20
CLF1B-4	Normal	4/19/2016	< 5	49.7	18.2	< 0.5	50.9	< 5	< 50	< 1	-	7.18	< 10	529	22.4	19.17	290	-	0	-
CLF1B-4	Normal	7/19/2016	< 5	44.6	20.4	< 0.5	52.7	< 5	< 50	< 1	< 0.1	7.16	< 10	5120	17.4	23.40	384	1.32	0	< 10
CLF1B-4	Normal	10/13/2016	< 5	51.4	21.4	< 0.5	50.7	< 5	< 50	< 1	-	6.97	< 10	487	15.3	25.72	360	-	0	-
CLF1B-4	Normal	1/30/2017	< 5	48.4	21.7	< 0.5	49.1	< 5	< 50	< 1	< 0.1	7.22	< 10	523	16.3	15.93	344	1.51	0	< 10
CLF1B-4	Normal	4/17/2017	< 5	54	19	< 0.5	47.4	< 5	< 50	< 1	-	7.23	< 10	514	16.1	25.11	278	-	0	-
CLF1B-4	Normal	7/26/2017	< 5	46.9	20	< 0.5	56	< 5	< 50	< 1	< 0.1	7.02	< 10	539	14.8	22.26	396	1.24	0	15
CLF1B-4	Normal	9/26/2017	< 5	52	17	< 0.5	53.1	< 5	< 50	< 1	-	7.24	< 10	557	14.3	25.49	286	-	0	-
CLF1B-4	Normal	10/11/2017	-	-	20	-	49.9	-	-	-	-	7.2	-	530	13.7	23.90	256.7	-	0	-
CLF1B-4	Normal	2/8/2018	< 5	46.7	17	< 0.5	47.2	< 5	< 50	< 1	< 0.1	7.23	< 10	536	14.8	16.81	434	1.6	3.9	< 10
CLF1B-4	Normal	6/28/2018	< 5	48	17	< 0.5	50.5	< 5	< 50	< 1	< 0.1	7.01	< 10	551	13.4	21.45	380	1.18	0	< 10
CLF1B-4	Normal	2/12/2019	< 5	48.1	18	< 0.5	54.4	< 5	< 50	< 1	0.24	7.38	< 10	507	13.7	23.25	331.2	1.17	0	< 10
CLF1B-4	Normal	7/8/2019	< 5	51.2	19	< 0.5	66.5	< 5	-	< 1	-	6.93	< 10	589	13.9	20.95	427.5	-	0	-
CLF1B-4	Normal	2/24/2020	< 5	51.5	18	< 0.5	77.7	< 5	< 50	< 1	< 0.1	6.93	< 10	651	14.6	14.68	371.2	1.19	2	< 10
CLF1B-4	Normal	6/23/2020	< 5	52.1	23	< 0.5	88.2	< 5	< 50	< 1	< 0.1	6.99	< 10	694	17.1	20.74	513.8	< 1	0	< 10
CLF1B-4	Normal	1/27/2021	< 5	52.2	17	< 0.5	82.2	< 5	< 50	< 1	< 0.1	7.06	< 10	534	12.2	18.28	418.8	1.15	4.9	< 10
CLF1B-4	Normal	6/22/2021	< 5	56.1	16	< 0.5	99.9	< 5	51.4	< 1	0.16	7.03	< 10	607	16.4	21.33	552.5	< 1	0.7	< 10
CLF1B-4	Primary	1/24/2022	< 3	53.7	18.3	< 0.5	99.3	< 5	32.7	< 2.5	< 0.1	7.05	< 5	666	18.1	18.84	417.5	< 1	7.8	< 10
CLF1B-4	Primary	6/27/2022	< 5	56	27	< 4	100	< 5	< 50	< 10	< 0.1	6.93	< 20	786	26.6	20.8	490	1.32	5.5	< 10
CLF1B-4	Primary	10/31/2022	< 3	61.6	26.5	< 0.5	99.5	< 5	< 100	< 2.5	< 0.1	6.96	< 5	596	23.8	27.36	553.8	< 1	0	-
CLF1B-4	Primary	1/24/2023	< 3	56.6	21.5	< 0.5	93.5	< 5	< 100	< 2.5	< 0.1	7.02	< 2.5	504	16.5	20.29	552.5	1.34	0	< 20
CLF1B-4	Primary	6/12/2023	< 5	55.5	25.6	< 0.5	98.3	< 5	< 50	< 1	< 0.1	6.99	< 10	697	20.4	21.96	607.5	< 1	5.1	< 10
CLF1B-4	Primary	1/22/2024	< 5	61.5	25.3	< 0.5	100	< 5	< 50	< 1	< 0.1	7.04	< 10	760	19.4	16.53	603.8	< 1	0	< 10
CLF1B-4	Primary	6/6/2024	< 5	61.9	29.5	< 0.5	98.1	< 5	< 50	< 1	< 0.1	6.9	< 10	849	29	20.39	586.2	< 1	0	< 10
CLF1B-5	Normal	10/22/2015	< 3	78	15.8	< 0.5	69.5	< 5	1000	< 2.5		6.83	< 20	829	24.2	23.47	528	-	61.8	
CLF1B-5	Normal	1/27/2016	< 3	85	15.5	< 0.5	90.9	< 5	600	< 2.5	< 0.1	6.76	< 20	937	44.4	15.91	662.5	2.06	11.6	31
CLF1B-5	Duplicate	1/28/2016	< 3	84	< 15	< 0.5	90.7	< 5	670	< 2.5	< 0.1	-	< 20	-	43.8	-	675	1.34	-	140
CLF1B-5	Normal	4/25/2016	< 5	85.6	< 15	< 0.5	99.8	< 5	1370	< 1	-	6.68	< 10	911	63.6	21.02	755	-	2	-
CLF1B-5	Normal	7/19/2016	< 5	92	< 15	< 0.5	113	< 5	1206	< 1	< 0.1	6.59	< 10	9050	87.3	31.57	848	1.46	9.6	< 10
CLF1B-5	Normal	10/14/2016	< 5	97.4	< 15	< 0.5	109	< 5	1300	< 1	-	6.51	< 10	1050	110	20.30	763.3	-	0.6	-
CLF1B-5	Normal	1/24/2017	< 5	111	15.3	< 0.5	110	< 5	924	< 1	< 0.1	6.75	< 10	1100	112	16.95	758	-	0	15.5
CLF1B-5	Normal	2/2/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.36	-	-
CLF1B-5	Normal	4/18/2017	< 5	102	< 15	< 0.5	114	< 5	1310	< 1	-	6.6	< 10	1150	130	20.51	756	-	0	-
CLF1B-5	Normal	7/25/2017	< 5	109	15	< 0.5	117	< 5	1250	< 1	< 0.1	6.67	< 10	1070	161	29.27	840	1.57	0	52.5
CLF1B-5	Normal	9/26/2017	< 5	109	15	< 0.5	118	< 5	1410	< 1	-	6.76	< 10	1250	165	27.28	812	-	0	-
CLF1B-5	Normal	10/11/2017	-	-	19	-	117	-	-	-	-	6.71	-	1220	177	24.90	776.7	-	0	-
CLF1B-5	Normal	2/8/2018	< 5	193	16	< 0.5	120	< 5	497	< 1	0.13	6.71	< 10	1400	278	17.29	1076	2.28	0	< 10
CLF1B-5	Normal	6/27/2018	< 5	102	16	< 0.5	117	< 5	1500	< 1	0.15	6.71	< 10	1160	176	29.92	936.2	1.52	0	18
CLF1B-5	Normal	2/13/2019	< 5	104	18	< 0.5	134	< 5	1670	< 1	0.29	6.71	< 10	1370	203	15.86	921.2	1.44	1.8	< 10
CLF1B-5	Normal	5/2`/2019	-	-	-	-	127	-	1940		-	6.64		1290	209	22.17	1024	1.48	0.7	-
CLF1B-5	Normal	7/9/2019	< 5	108	19	< 0.5	151	< 5	-	< 1	-	6.5	< 10	1350	236	22.50	1155	-	0	-
CLF1B-5	Normal	2/25/2020	< 5	116	18	< 0.5	138	< 5	1400	< 1	< 0.1	6.49	< 10	1390	230	18.03	935	1.39	1.2	< 10
CLF1B-5	Normal	6/23/2020	< 5	110	19	< 0.5	139	< 5	1850	< 1	< 0.1	6.61	< 10	1380	228	22.22	1076	1.6	0	< 10
CLF1B-5	Normal	1/27/2021	< 5	114	19	< 0.5	152	< 5	1360	< 1	< 0.1	6.58	< 10	1310	238	18.27	1024	1.39	2.2	< 10
CLF1B-5	Normal	6/23/2021	< 5	119	19	< 0.5	174	< 5	2130	< 1	< 0.1	5.57	< 10	2	251	21.24	1176	1.97	74.7	10.8
CLF1B-5	Primary	1/25/2022	< 3	110	16.5	< 0.5	152	< 5	1220	< 2.5	< 0.1	6.64	< 5	1470	291	17.4	1132	1.89	0	11.2
CLF1B-5	Primary	6/27/2022	< 5	120	26	< 4	168	< 5	1800	< 10	< 0.1	6.66	< 20	1430	262	23.19	1148	1.77	14.1	< 10
CLF1B-5	Primary	11/`/2022	< 3	126	24.4	< 0.5	180	< 5	1750	< 2.5	< 0.1	6.47	< 5	1380	264	23.87	1099	1.52	0	-
CLF1B-5	Primary	1/24/2023	< 3	109	23.7	< 0.5	157	< 5	928	< 2.5	< 0.1	6.58	< 2.5	1080	257	18.31	1222	1.33	0	< 20
CLF1B-5	Primary	6/12/2023	< 5	114	25.2	< 0.5	167	< 5	2050	< 1	< 0.1	6.66	< 10	1430	249	24.34	1280	1.39	35.9	< 10
CLF1B-5	Primary	1/22/2024	< 5	114	27.3	< 0.5	168	< 5	1780	< 1	< 0.1	6.64	< 10	1510	256	16.92	1131	1.96	4.5	< 10
CLF1B-5	Primary	6/5/2024	< 5	114	27.1	< 0.5	176	< 5	2030	< 1	< 0.1	6.64	< 10	1020	256	33.77	1222	1.51	0	< 10

Notes:
Red: Indicates result is greater than MCL/Secondary MCL
Red Bold: Indicates result is greater than MCL/Secondary MCL and UTL
***Bold Black**: Indicates result is greater than UTL and less than MCL/Secondary MCL (if available).*
Cells filled in gray: Indicates data collected prior to the placement of waste.
- Not recorded

Appendix B:

Certificates of Analysis, External Lab Reports, & Field Parameters

santee cooper

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87807 **Location:** GW Well PM-1 **Date:** 01/08/2024 **Sample Collector:** WJK/ML

Loc. Code PM-1 **Time:** 10:48

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.86	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Barium	77.8	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	119	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	1.6	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Iron	11400	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Potassium	0.65	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Magnesium	0.70	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Sodium	5.8	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	14.2	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Lithium	5.26	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	5.49	mg/L	01/17/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/10/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/10/2024	KCWELLS	EPA 300.0
Chloride	12.8	mg/L	01/10/2024	KCWELLS	EPA 300.0
Sulfate	7.62	mg/L	01/10/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	193.8	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	0.612	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	1.24	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.852	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	5.13	SU	01/08/2024	WJK/ML	

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

Analysis Validated: Validation date: 3/27/24

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87768 **Location:** GW Well CBW-1 **Date:** 01/08/2024 **Sample Collector:** WJK/ML

Loc. Code CBW-1 **Time:** 11:55

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	0.60	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Barium	41.3	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	25.0	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	0.87	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Potassium	0.73	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Magnesium	1.9	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Sodium	13.4	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Lead	2.4	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	19.3	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	2.19	mg/L	01/17/2024	GEL	SM 5310B
Nitrate	0.72	mg/L	01/10/2024	KCWELLS	EPA 300.0
Fluoride	0.14	mg/L	01/10/2024	KCWELLS	EPA 300.0
Chloride	3.48	mg/L	01/10/2024	KCWELLS	EPA 300.0
Sulfate	83.6	mg/L	01/10/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	188.8	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	0.278	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	1.22	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.498	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	4.44	SU	01/08/2024	WJK/ML	

Comments:

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

Analysis Validated: Linda Williams - Manager Analytical Services Validation date: 3/27/24

Authorized Signature Only- Not Valid Unless Signed

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87800 **Location:** GW Well CLF1B-1 **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-1 **Time:** 09:15

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	130	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Calcium	181	mg/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cobalt	2.3	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	15.6	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	2.48	mg/L	01/30/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Chloride	28.2	mg/L	01/23/2024	KCWELLS	EPA 300.0
Sulfate	155	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	617.5	mg/L	01/23/2024	KCWELLS	SM 2540C
pH	6.55	SU	01/22/2024	WJK/ML	

Comments:

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

Analysis Validated: Validation date: 3/27/24

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87801 **Location:** GW Well CLF1B-1 **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-1 DUP **Time:** 09:20

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	125	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Calcium	178	mg/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cobalt	2.1	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	16.2	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	2.38	mg/L	01/30/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Chloride	28.1	mg/L	01/23/2024	KCWELLS	EPA 300.0
Sulfate	159	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	610.0	mg/L	01/23/2024	KCWELLS	SM 2540C

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: 3/27/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87802 **Location:** GW Well CLF1B-2 **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-2 **Time:** 10:57

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	178	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Calcium	143	mg/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cobalt	1.9	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	163	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	24.1	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	1.01	mg/L	01/30/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Chloride	93.1	mg/L	01/23/2024	KCWELLS	EPA 300.0
Sulfate	16.5	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	610.0	mg/L	01/23/2024	KCWELLS	SM 2540C
pH	6.78	SU	01/22/2024	WJK/ML	

Comments:

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

Analysis Validated: Linda Williams Validation date: 3/27/24

Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87803 **Location:** GW Well CLF1B-3 **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-3 **Time:** 11:46

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	52.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Calcium	187	mg/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cobalt	25.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	2500	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	96.8	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	2.16	mg/L	01/31/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Chloride	18.8	mg/L	01/23/2024	KCWELLS	EPA 300.0
Sulfate	247	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	642.5	mg/L	01/23/2024	KCWELLS	SM 2540C
pH	6.61	SU	01/22/2024	WJK/ML	

Comments:

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

Analysis Validated: Validation date: 3/27/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87804 **Location:** GW Well CLF1B-4 **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-4 **Time:** 13:03

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	61.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Calcium	128	mg/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	25.3	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	<1	mg/L	01/31/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Chloride	100	mg/L	01/25/2024	KCWELLS	EPA 300.0
Sulfate	19.4	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	603.8	mg/L	01/23/2024	KCWELLS	SM 2540C
pH	7.04	SU	01/22/2024	WJK/ML	

Comments:

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

Analysis Validated: Validation date: 3/27/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87805 **Location:** GW Well CLF1B-5 **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-5 **Time:** 14:05

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	114	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Calcium	278	mg/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cobalt	2.9	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	1780	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	27.3	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Total Organic Carbon	1.66	mg/L	01/31/2024	GEL	SM 5310B
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Fluoride	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Chloride	168	mg/L	01/23/2024	KCWELLS	EPA 300.0
Sulfate	256	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1131	mg/L	01/23/2024	KCWELLS	SM 2540C
pH	6.64	SU	01/22/2024	WJK/ML	

Comments:

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

Analysis Validated: Validation date: 3/27/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF87806 **Location:** GW Well CLF1B-5D **Date:** 01/22/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-5D **Time:** 14:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	02/06/2024	SKJACOBS	EPA 6020B
Barium	17.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Iron	216	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/01/2024	SKJACOBS	EPA 6020B
Boron	15.2	ug/L	01/24/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	<1	mg/L	01/30/2024	GEL	SM 5310B
Chloride	5.21	mg/L	01/23/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	01/23/2024	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	01/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	201.2	mg/L	01/23/2024	KCWELLS	SM 2540C
pH	7.22	SU	01/22/2024	WJK/ML	

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

Sample Validated: Linda Williams - Manager, Analytical Services

Final Validation Date: 3/27/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF98793 **Location:** GW Well CLF1B-3 **Date:** 05/07/2024 **Sample Collector:** WJK/ML

Loc. Code CLF1B-3 **Time:** 11:47

Analysis	Result	Units	Test Date	Analyst	Method
Cobalt	7.8	ug/L	05/16/2024	SKJACOBS	EPA 6020B
pH	6.53	SU	05/07/2024	JK/ML	

Comments:

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

Analysis Validated: _____ Validation date: 6/7/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01476 **Location:** GW Well PM-1 **Date:** 06/04/2024 **Sample Collector:** ZM/BB

Loc. Code PM-1 **Time:** 09:58

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	76.9	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Calcium	10.5	mg/L	06/11/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Cobalt	1.4	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Iron	8890	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Boron	12.4	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Total Organic Carbon	4.48	mg/L	06/12/2024	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Chloride	12.1	mg/L	06/11/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Sulfate	7.75	mg/L	06/11/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	143.8	mg/L	06/07/2024	KCWELLS	SM 2540C
Radium 226	0.188	pCi/L	06/19/2024	GEL	EPA 903.1 Mod
Radium 228	1.46	pCi/L	06/25/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.648	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	5.20	SU	06/04/2024	ZM/BB	

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: 8/2/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01438 **Location:** GW Well CBW-1 **Date:** 06/04/2024 **Sample Collector:** ZM/BB

Loc. Code CBW-1 **Time:** 08:53

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	37.4	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Calcium	24.7	mg/L	06/11/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Cobalt	0.84	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Lead	2.1	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Boron	19.6	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Total Organic Carbon	1.47	mg/L	06/12/2024	GEL	SM 5310B
Fluoride	0.13	mg/L	06/11/2024	KCWELLS	EPA 300.0
Chloride	3.22	mg/L	06/11/2024	KCWELLS	EPA 300.0
Nitrate	0.61	mg/L	06/11/2024	KCWELLS	EPA 300.0
Sulfate	89.6	mg/L	06/11/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	170.0	mg/L	06/07/2024	KCWELLS	SM 2540C
Radium 226	0.0311	pCi/L	06/19/2024	GEL	EPA 903.1 Mod
Radium 228	2.79	pCi/L	06/25/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.8211	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	4.54	SU	06/04/2024	ZM/BB	

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: 8/2/24

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01469 **Location:** GW Well CLF1B-1 **Date:** 06/04/2024 **Sample Collector:** ZM/BB

Loc. Code CLF1B-1 **Time:** 11:09

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	129	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Calcium	192	mg/L	06/11/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Cobalt	2.4	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Iron	70.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Boron	14.5	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	2.04	mg/L	06/12/2024	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Chloride	30.4	mg/L	06/11/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Sulfate	160	mg/L	06/11/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	607.5	mg/L	06/07/2024	KCWELLS	SM 2540C
pH	6.27	SU	06/04/2024	ZM/BB	

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: 8/2/24

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 # AG01470 **Location:** GW Well CLF1B-1 **Date:** 06/04/2024 **Sample Collector:** ZM/BB

Loc. Code CLF1B-1 DUP **Time:** 11:14

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	131	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Calcium	193	mg/L	06/11/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Cobalt	2.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Iron	67.6	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Boron	15.3	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	2.14	mg/L	06/12/2024	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Chloride	30.1	mg/L	06/11/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Sulfate	158	mg/L	06/11/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	673.8	mg/L	06/07/2024	KCWELLS	SM 2540C
pH	***	SU	06/05/2024	ZDMCHENR	

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: 8/2/24

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01471 **Location:** GW Well CLF1B-2 **Date:** 06/04/2024 **Sample Collector:** ZM/BB

Loc. Code CLF1B-2 **Time:** 14:17

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	167	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Calcium	144	mg/L	06/11/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Cobalt	3.3	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Iron	224	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Boron	24.7	ug/L	06/12/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	<1	mg/L	06/13/2024	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Chloride	93.2	mg/L	06/11/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/11/2024	KCWELLS	EPA 300.0
Sulfate	15.0	mg/L	06/11/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	626.2	mg/L	06/07/2024	KCWELLS	SM 2540C
pH	6.50	SU	06/04/2024	ZM/BB	

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: 8/2/24

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01472 **Location:** GW Well CLF1B-3 **Date:** 06/06/2024 **Sample Collector:** ZM/BB

Loc. Code CLF1B-3 **Time:** 10:02

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	67.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Calcium	210	mg/L	06/14/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Cobalt	6.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Iron	2580	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Boron	101	ug/L	06/13/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	2.16	mg/L	06/13/2024	GEL	SM 5310B
Fluoride	0.12	mg/L	06/07/2024	KCWELLS	EPA 300.0
Chloride	42.3	mg/L	06/07/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/07/2024	KCWELLS	EPA 300.0
Sulfate	270	mg/L	06/07/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	810.0	mg/L	06/13/2024	KRMATHER	SM 2540C
pH	6.69	SU	06/06/2024	ZM/BB	

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: 8/2/24

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01473 **Location:** GW Well CLF1B-4 **Date:** 06/06/2024 **Sample Collector:** ZM/BB

Loc. Code CLF1B-4 **Time:** 09:06

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	61.9	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Calcium	142	mg/L	06/14/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Cobalt	0.51	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Boron	29.5	ug/L	06/13/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	<1	mg/L	06/13/2024	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/07/2024	KCWELLS	EPA 300.0
Chloride	98.1	mg/L	06/07/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/07/2024	KCWELLS	EPA 300.0
Sulfate	29.0	mg/L	06/07/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	586.2	mg/L	06/07/2024	KCWELLS	SM 2540C
pH	6.90	SU	06/06/2024	ZM/BB	

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: 8/2/24

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01474 **Location:** GW Well CLF1B-5 **Date:** 06/05/2024 **Sample Collector:** ZM/GK

Loc. Code CLF1B-5 **Time:** 14:52

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	114	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Calcium	287	mg/L	06/14/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Cobalt	3.6	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Iron	2030	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Boron	27.1	ug/L	06/13/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	1.51	mg/L	06/12/2024	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/07/2024	KCWELLS	EPA 300.0
Chloride	176	mg/L	06/07/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/07/2024	KCWELLS	EPA 300.0
Sulfate	256	mg/L	06/07/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1222	mg/L	06/07/2024	KCWELLS	SM 2540C
pH	6.64	SU	06/05/2024	ZM/GK	

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: 8/2/24

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG01475 **Location:** GW Well CLF1B-5D **Date:** 06/05/2024 **Sample Collector:** ZM/GK

Loc. Code CLF1B-5D **Time:** 13:51

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Arsenic Dissolved	<5.0	ug/L	06/11/2024	SKJACOBS	EPA 6020B
Barium	16.6	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Iron	218	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/14/2024	SKJACOBS	EPA 6020B
Boron	16.5	ug/L	06/13/2024	SKJACOBS	EPA 6010D
Total Organic Carbon	<1	mg/L	06/12/2024	GEL	SM 5310B
Chloride	5.21	mg/L	06/07/2024	KCWELLS	EPA 300.0
Nitrate	<0.10	mg/L	06/07/2024	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	06/07/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	220.0	mg/L	06/07/2024	KCWELLS	SM 2540C
pH	7.32	SU	06/05/2024	ZM/GK	

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

Sample Validated: Linda Williams - Manager, Analytical Services

Final Validation Date: 7/22/24

santee cooper

Chain of Custody

Cross
Background
NPDES/CCR/LF

(Background wells
CBW-1 and PM-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks 2/9/24

Project/Task/Unit # ~~121567~~ JM02.09.G01 / 36500
125915

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, K, Mg, Na, Pb, Sb, Se, Ti, Zn++ (Preservative: 1; Bottle Type: P; Fill in the Number of Containers for each Test: 2)	B, Li, Mo, Hg (1; P; 1)	TOC (1,3; G; 1)	F, Cl, NO3, SO4 TDS (1; P; 2)	Ra 226, Ra 228 (1; P; 2)	Dissolved As (1; P; 1)	Comments
AF87807	PM-1	1/8/24	1042	WSK/ML	G	GW	9	2	1	1	2	2	1	extra metal bottle
AF87769	CBW-1	↓	1155	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	* SPLIT BOTTLES TO MAKE TDS BOTTLE
														-FILTERED IN LAB

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.8	SJL

Lot # 1122100
Batch # 033023-01
1:1 Nitric Acid (HNO3)
1/9/24 e0955 SJL
santee cooper

Lot # GFS 22350117
Batch # 030123-1 NO3
1:1 Sulfuric Acid (H2SO4)
1/9/24 e 0947 SJL
santee cooper

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-
Bottom Ash, M-Misc.

Preservation used: 1-<4°C, 2-HNO, 3-H2SO, 4-HCl, 5-Na2S2O3, 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: ~~N/A~~ (Yes) No If preserved, Lot# 1000-1902-QC-10.0N20 Date/Time/Int 12/22/23 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	37981	1/9/24	903	[signature]	35594	1/9/24	0903
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

TOC - APC1449 12/22/23 GEL

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks 2/20/24

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, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As	Comments
	Preservative							1	1	1 3	1	1	1	
	Bottle Type (Glass/Plastic)							P	P	G	P	P	P	
	Sample Type													
								Fill in the Number of Containers for each Test						
AF87806	CLF1B-2	1/22/24	915	WSL/mc	G	GW	8	2	1	1	2	1	1	Extra Metal
AF87801	CLF1B-DUP		920											FILTERED IN LAB - KW
AF87802	CLF1B-2		1057											
AF87803	CLF1B-3		1146				8							* rust white
AF87804	CLF1B-4		1303				8							
AF87805	CLF1B-5		1405				8							

NO3 Lot # GFS 22350117
Batch # 030123-1
1:1 Sulfuric Acid (H2SO4)
1/23/24 @ 0916 SJL

Lot # 1122100
Batch # 033023-01
1:1 Nitric Acid (HNO3)
1/23/24 @ 1159 SJL

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.9	SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Sludge, A-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-NaOH, 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: TOC (Yes) No If preserved, Lot# APC1449 Date/Time/Int 12/22/23

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	37981	1/23/24	0755	SRevy	35594	1/23/24	0755
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: AlM, 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 (CaC03), % 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

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks 2/20/24

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, Ca, Cd, Co, Cr, Fe, Pb, Sa, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As
	Preservative							1	1	V3	1	1	1
	Bottle Type (Glass/Plastic)							P	P	G	P	P	P
AF87806	CLF1B-1	1/22/24	915	WSK/ME	G	GW	8	#2	1	1	2	1	1
AF87801	CLF1B-1DUP		920										
AF87802	CLF1B-2		1057										
AF87803	CLF1B-3		1146				8						
AF87804	CLF1B-4		1303				8						
AF87805	CLF1B-5		1405				8						

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.9	SJL

Comments

* Extra Metal
FILTERED IN LAB - KW
* rinse white

NO3 Lot # GFS 22350117
Batch # 030123-1
1:1 Sulfuric Acid (H2SO4)
santee cooper 1/23/24 @ 0916 SJL

Lot # 1122100
Batch # 033023-01
1:1 Nitric Acid (HNO3)
santee cooper 1/23/24 @ 1159 SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, S-... 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: TOC (Yes) No If preserved, Lot# APC1449 Date/Time/Int 12/22/23

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	37981	1/23/24	0755	JRevy	35594	1/23/24	0755
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

Cross
Class 2/3 LF

Chain of Custody

(POZ-5D, CLF1B-5D)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks 2/20/24

Project/Task/Unit # 125915 JM02.08.G01.1 / 36500

Contract Lab Due Date (Lab Only): ____

Sample Analysis Requested (Method)

Preservative	1	1	1	1,3	1	1	
Bottle Type: Glass/Plastic	P						

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.9	SJL

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Matrix	Grab/Comp	Number of Containers	As, Ba, Cd, Cr, Fe, Pb, Se, Zn *	B	Dissolved As	TOC	Cl, NO3, SO4	TDS	Comments
AF87806	CLF2B-5D	1/22/24	1443	GW	G	6	8	2	1	1	1	2	1 *Also, Co for POZ-3 and POZ-5D only FILTERED IN LAB - KW

Fill in the Number of Containers for each Test

Lot # 1122100
Batch # 033023-01
1:1 Nitric Acid (HNO3)
1/23/24 @ 1159 SJL
samee cooper

Lot # GFS 22350117
NO3
Batch # 030123-1
1:1 Sulfuric Acid (H2SO4)
1/23/24 @ 0916 SJL
samee cooper

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

Preservation used: 1-<4°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-Na2S2O3, 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: TOC (Yes) No	If preserved, Lot#	Date/Time/Int	Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
		APC 1449	12/22/23 - GEL								
					37981	1/24/24	0755	Shevy	35594	1/23/24	0755
				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
Sieve Analysis
Hardgrove Grindability Index
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

I:\97130\Groundwater\00 GW and Waste\01GW\Chain of Custodies

santee cooper

Chain of Custody

Cross
Background
NPDES/CCR/LF

(Background wells
CBW-1 and PM-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks 2/9/24

Project/Task/Unit # ~~121567~~ JM02.09.G01 / 36500
125915

Contract Lab Due Date (Lab Only) : _____

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Grab/Comp	Matrix	Number of Containers	Al, As, Ba, Be, Ca, Co, Cr, Fe, K, Mg, Na, Pb, Sb, Se, Tl, Zn**	B, Li, Mo, Hg	TOC	F, Cl, NO3, SO4 TDS	Ra 226, Ra 228	Dissolved As
Preservative								1	1	1,3	1	1	1
Bottle Type (Glass/Plastic)								P	P	G	P	P	P
AF87807	PM-1	1/8/24	1040	WSK/ML	G	GW	9	2	1	1	2	2	1
AF87768	CBW-1	↓	1155	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.8	SJL

Comments

extra metal bottle

* SPLIT BOTTLES TO MAKE TDS BOTTLE
- FILTERED IN LAB

Lot # 1122100
Batch # 033023-01
1:1 Nitric Acid (HNO3)
1/9/24 e0955 SJL

Lot # GFS 22350117
Batch # 030123-1 NO3
1:1 Sulfuric Acid (H2SO4)
1/9/24 e 0947 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-C
Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO, 3-H2SO, 4-HCl, 5-Na2S2O3, 6-Other (Specify)

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 1000-1902-QC-10.0N20 Date/Time/Int 12/22/23 GEL

Bottle Type: (G) Glass (P) Plastic Sample Type: (G) Grab, (C) Composite

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #
	37981	1/9/24	903	SRevy	35594
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #

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

Date	Time
1/9/24	0903
Date	Time
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

TOC - APC1449 12/22/23 GEL

Cross Confirmation

(CLF1B-3)

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.G02.3 / 36500

Contract Lab Due Date (Lab Only) : _____

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Grab/Comp	Matrix	Number of Containers	Preservative	Bottle Type (Glass/Plastic)						Comments
								1							
								P							
								C0							
AG98793	CLF1B-3	5/7/24	1147	WJK/ML	G	GW	1	1							

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.1	SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
5/8/24 e0936 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# Date/Time/Int

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	37951	5/8/24	830	Lowry	35594	5/8/24	0830
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

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks 6/28

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, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn (Preservative: 1,2; Bottle Type: P; Fill in the Number of Containers for each Test)	B (Preservative: 1,2; Bottle Type: P)	TOC (Preservative: 1; Bottle Type: G)	F, Cl, NO3, SO4 (Preservative: 1; Bottle Type: P)	TDS (Preservative: 1; Bottle Type: P)	dissolved As (Preservative: 1; Bottle Type: P)	Comments
AG01469	CLF1B-1	6/4/24	1109	ZM BB	G	GW	6	1	1	1	1	1	1	EDITED DATE/TIME ADDED ANALYSIS SJL
AG01470	CLF1B-1 Dup		1114				6	1	1	1	1	1	1	FILTERED IN LAB
AG01471	CLF1B-2		1417				6	1	1	1	1	1	1	

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/5/24 @ 1151 SJL

Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/5/24 @ 1153 SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
TH @ 1357

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.7	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: TOC (Yes) No If preserved, Lot# 4GB0974/APC1449 Date/Time/Int 5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/4/24	1542	[signature]	36851	6/4/24	1542

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

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks 9/2

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, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As
	Preservative							1	1	1,3	1	1	1
	Bottle Type (Glass/Plastic)							P	P	G	P	P	P
AG01472	CLF1B-3	6/6/24	1002	ZM BB	G	GW	6	1	1	1	1	1	1
AG01473	CLF1B-4	1	906	1	1	1	6	1	1	1	1	1	1

Fill in the Number of Containers for each Test

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/6/24 @ 1623 SJL

Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/6/24 @ 1623 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

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.5	SJL

Comments: EDITED DATE + TIME; ADDED ANALYSIS SJL

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH: TOC (Yes) No	If preserved, Lot#	Date/Time/Int
		4GB0974/APC1449	5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/6/24	1604	S. Levy	35594	6/6/24	1604

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: AlM, 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

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): ~~3 Weeks~~ 9/2/24

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	Grab/Comp	Matrix	Number of Containers	As, Ba, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As	Comments
	Preservative							1	1	1,3	1	1	1	
	Bottle Type (Glass/Plastic)							P	P	G	P	P	P	
	Sample Type							Fill in the Number of Containers for each Test						
AG01474	CLF1B-5	6/5/24	1452	ZM GK	G	GW	6	1	1	1	1	1	1	EDITED DATE & TIME ADDED ANALYSIS

Sample Analysis Requested (Method)

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.3	SJL

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/6/24 @ 1215 GK

Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/6/24 @ 1132 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: TOC (Yes) No If preserved, Lot# 4GB0974 / APC1449 Date/Time/Int 5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/6/24	0736	S. Reary	35394	6/6/24	0736
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

santee cooper

Cross
Background
NPDES/CCR/LF
(Background wells
CBW-1 and PM-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks 6/28/24

Project/Task/Unit # 121567 JM02.09.G01 / 36500

Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Grab/Comp	Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Fe, Sb, Se, Tl, Zn** (Preservative 1,2 / Bottle Type P)	B, Li, Mo, Hg (1,2 / P)	TOC (1,3 / G)	F, Cl, NO3, SO4 TDS (1 / P)	Ra 226, Ra 228 (1,2 / P)	Comments
								Fill in the Number of Containers for each Test					
AG01438	CBW-1	6/4/24	853	ZM BB	G	GW	8	1	1	1	2	2	EDITED DATE + TIME ADDED ANALYSIS SJL
AG01476	PM-1	↓	958	↓	↓	↓	8	1	1	1	2	2	

Lot # GFS 24004929
Batch # 052024-1 NO3
1:1 Sulfuric Acid (H2SO4)
6/5/24 @ 1153 SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
santee cooper TH@1357

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.7	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: TOC RAD (Yes) No If preserved, Lot# 4GB0974 /APC1449 Date/Time/Int 5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	38027	6/4/24	1542		36851	6/4/24	1542
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

RAD 1000-1902-QC/234170 5/31/24 GEL

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): ~~3 Weeks~~ 9/2/24

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, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As	Comments
	Preservative							1	1	1,3	1	1	1	
	Bottle Type (Glass/Plastic)							P	P	G	P	P	P	
	Fill in the Number of Containers for each Test													
AG01474	CLF1B-5	6/5/24	1452	ZM GK	G	GW	6	1	1	1	1	1	1	EDITED DATE + TIME ADDED ANALYSIS

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.3	SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/6/24 @ 1215 GK

Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/6/24 @ 1132 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: TOC (Yes) No	If preserved, Lot#	Date/Time/Int
		4GB0974 / APC1449	5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/6/24	0736	S. Levy	35974	6/6/24	0736

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

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks 9/2

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, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As
	Preservative							1	1	1, 3	1	1	1
	Bottle Type (Glass/Plastic)							P	P	G	P	P	P
								Fill in the Number of Containers for each Test					
AG01472	CLF1B-3	6/6/24	1002	ZM BB	G	GW	6	1	1	1	1	1	1
AG01473	CLF1B-4	"	906	"	"	"	6	1	1	1	1	1	1

EDITED DATE + TIME; ADDED ANALYSIS SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/6/24 @ 1623 SJL

Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/6/24 @ 1623 SJL

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.5	SJL

Comments

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: TOC (Yes) No	If preserved, Lot#	Date/Time/Int
		4GB0974/APC1449	5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/6/24	1604	S. Levy	35594	6/6/24	1604

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

Cross
CCR/Class 3 LF

(CLF1B-1, CLF1B-2, CLF1B-3, CLF1B-4, CLF1B-5 and Duplicate CLF1B-1)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks 6/28

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, Ca, Cd, Co, Cr, Fe, Pb, Se, Zn	B	TOC	F, Cl, NO3, SO4	TDS	dissolved As
								1,2	1,2	1	1	1	1		
									P	P	G	P	P	P	
										Fill in the Number of Containers for each Test					
AG01469	CLF1B-1	6/4/24	1109	ZM BB	G	GW	6			1	1	1	1	1	1
AG01470	CLF1B-1 DUP		1114				6			1	1	1	1	1	1
AG01471	CLF1B-2		1417				6			1	1	1	1	1	1

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/5/24 @ 1151 SJL

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.7	TH

Comments

EDITED DATE/TIME ADDED ANALYSIS SJL

FILTERED IN LAB

Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/5/24 @ 1153 SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
TH @ 1357

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: TOC (Yes) No If preserved, Lot# 4GB0974/APC1449 Date/Time/Int 5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/4/24	1542	[signature]	36851	6/4/24	1542
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

Cross
Class 2/3 LF
State Only
(POZ-5D,
CLF1B-5D)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks 9/2/24

Project/Task/Unit # 125915 JM02.08.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, Cd, Cr, Fe, Pb, Se, Zn, Co	B	Dissolved As	TOC	Cl, NO3, SO4	TDS	Comments
	Preservative							1	1	1	1,3	1	1	
	Bottle Type (Glass/Plastic)							P	P	P	G	P	P	
	Fill in the Number of Containers for each Test													
AG01475	CLF1B-5D	6/5/24	1351	ZM GK	G	GW	6	1	1	1	1	1	1	EDITED DATE + TIMES ADDED ANALYSIS
AG01479	POZ-5D	↓	1245	↓	↓	↓	6	1	1	1	1	1	1	

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.3	SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
6/6/24 @ 1215 GK

NO3 Lot # GFS 24004929
Batch # 052024-1
1:1 Sulfuric Acid (H2SO4)
6/6/24 @ 1132 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: TOC (Yes) No — If preserved, Lot# 4GB0974/APC1449 — Date/Time/Int 5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38027	6/6/24	0736	S. Revy	35594	6/6/24	0736
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

Cross
Background
NPDES/CCR/LF
(Background wells
CBW-1 and PM-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks 6/28/24

Project/Task/Unit # 121567 JM02.09.G01 / 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	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Fe, Sb, Se, Tl, Zn**	B, Li, Mo, Hg	TOC	F, Cl, NO3, SO4 TDS	Ra 226, Ra 228	
Preservative								1, 2	1, 2	1, 3	1	1, 2	
Bottle Type (Glass/Plastic)								P	P	G	P	P	
AG01438	CBW-1	6/4/24	853	ZM BB	G	GW	8	1	1	1	2	2	
AG01476	PM-1	↓	958	↓	↓	↓	8	1	1	1	2	2	

Fill in the Number of Containers for each Test

Lot # GFS 24004929
Batch # 052024-1 NO3
1:1 Sulfuric Acid (H2SO4)
6/5/24 @ 1153 SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
santee cooper TH@1357

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

Comments: EDITED DATE + TIME ADDED ANALYSIS 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: TOC RAD (Yes) No If preserved, Lot# 4GB0974 / APC1449 Date/Time/Int 5/31/24 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	38027	6/4/24	1542		36851	6/4/24	1542
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

RAD 1000-1902-QC/234170 5/31/24 GEL

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 01, 2024

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

Re: ABS Lab Analytical
Work Order: 653150

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 26, 2024. 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: 653150 GEL Work Order: 653150

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

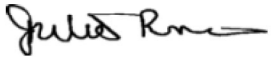
J Value is estimated

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: February 1, 2024

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

Client Sample ID:	AF87800	Project:	SOOP00119
Sample ID:	653150001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	22-JAN-24 09:15		
Receive Date:	26-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.48	0.330	1.00	mg/L		1	RM3	01/30/24	2246	2560602	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: February 1, 2024

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

Client Sample ID:	AF87801	Project:	SOOP00119
Sample ID:	653150002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	22-JAN-24 09:20		
Receive Date:	26-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.38	0.330	1.00	mg/L		1	RM3	01/30/24	2311	2560602	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: February 1, 2024

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

Client Sample ID:	AF87802	Project:	SOOP00119
Sample ID:	653150003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	22-JAN-24 10:57		
Receive Date:	26-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.01	0.330	1.00	mg/L		1	RM3	01/30/24	2335	2560602	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: February 1, 2024

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

Client Sample ID:	AF87803	Project:	SOOP00119
Sample ID:	653150004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	22-JAN-24 11:46		
Receive Date:	26-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.16	0.330	1.00	mg/L		1	RM3	01/31/24	0000	2560602	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: February 1, 2024

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

Client Sample ID:	AF87804	Project:	SOOP00119
Sample ID:	653150005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	22-JAN-24 13:03		
Receive Date:	26-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.957	0.330	1.00	mg/L		1	RM3	01/31/24	0025	2560602	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: February 1, 2024

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

Client Sample ID:	AF87805	Project:	SOOP00119
Sample ID:	653150006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	22-JAN-24 14:05		
Receive Date:	26-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.66	0.330	1.00	mg/L		1	RM3	01/31/24	0049	2560602	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: February 1, 2024

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **653150**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Carbon Analysis											
Batch 2560602											
QC1205635325 653148001 DUP											
Total Organic Carbon Average		1.86		1.95	mg/L	4.36 ^		(+/-1.00)	RM3	01/30/24	19:09
QC1205635322 LCS											
Total Organic Carbon Average	10.0			9.84	mg/L		98.4	(80%-120%)		01/30/24	14:07
QC1205635321 MB											
Total Organic Carbon Average			U	ND	mg/L					01/30/24	13:59
QC1205635326 653148001 PS											
Total Organic Carbon Average	10.0	1.86		11.7	mg/L		98.7	(65%-120%)		01/30/24	19:34

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: **653150**

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

N1 See case narrative

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

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

General Chemistry
Technical Case Narrative
Santee Cooper
SDG #: 653150

Product: **Carbon, Total Organic**
Analytical Method: SM 5310 B
Analytical Procedure: GL-GC-E-093 REV# 22
Analytical Batch: 2560602

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

GEL Sample ID#	Client Sample Identification
653150001	AF87800
653150002	AF87801
653150003	AF87802
653150004	AF87803
653150005	AF87804
653150006	AF87805
1205635321	Method Blank (MB)
1205635322	Laboratory Control Sample (LCS)
1205635325	653148001(AF87809) Sample Duplicate (DUP)
1205635326	653148001(AF87809) Post Spike (PS)

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

Data Summary:

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

Certification Statement

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

653150

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 5 / 24 Send report to lcwillia@santeecooper.com & sjbrown@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	TOC			
AF87800	CLFIB-1	1/22/24	0915	WJK ML	1	G	G	GW	3/1		X			
01	CLFIB-1 DUP		0920											
02	CLFIB-2		1057											
03	CLFIB-3		1146											
04	CLFIB-4		1303											
05	CLFIB-5		1405											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
	36857	1/26/24	0824		GEL	1/26/24	0824
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
	GEL	1/26/24	1610	ThyssiaTate	GEL	12624	1610
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

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

☐ **METALS (all)**

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

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Naphthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ **Wallboard Gypsum(*all below*)**
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ **Ultimate**
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

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

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ **Trans. Oil Qual.**
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ **GOFER**

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-Coal, SD-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:** 653150 SR
Received By: Thyasia Tatum	**Date Received:** 1-26-24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	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) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: GHEM-1°C RCHEM-10°C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials KM Date 1/29/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 01 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Pucrto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
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

January 19, 2024

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

Re: ABS Lab Analytical
Work Order: 651804

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 12, 2024. 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 - 125915/JM02.09.G01/36
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: 651804 GEL Work Order: 651804

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

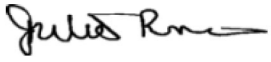
** Analyte is a surrogate compound

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: January 19, 2024

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

Client Sample ID:	AF87807	Project:	SOOP00119
Sample ID:	651804001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	08-JAN-24 10:48		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		5.49	0.330	1.00	mg/L		1	RM3	01/17/24	0414	2554091	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: January 19, 2024

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

Client Sample ID:	AF87768	Project:	SOOP00119
Sample ID:	651804002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	08-JAN-24 11:55		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.19	0.330	1.00	mg/L		1	RM3	01/17/24	0528	2554091	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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: January 19, 2024

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **651804**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Carbon Analysis										
Batch 2554091										
QC1205624555 651804001 DUP										
Total Organic Carbon Average		5.49		5.54	mg/L	0.924		(0%-20%)	RM3	01/17/24 04:39
QC1205624548 LCS										
Total Organic Carbon Average	10.0			9.56	mg/L		95.6	(80%-120%)		01/16/24 15:24
QC1205624547 MB										
Total Organic Carbon Average			U	ND	mg/L					01/16/24 15:16
QC1205624556 651804001 PS										
Total Organic Carbon Average	10.0	5.49		14.9	mg/L		93.6	(65%-120%)		01/17/24 05:03

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: **651804**

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

N1 See case narrative

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

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

General Chemistry
Technical Case Narrative
Santee Cooper
SDG #: 651804

Product: **Carbon, Total Organic**
Analytical Method: SM 5310 B
Analytical Procedure: GL-GC-E-093 REV# 22
Analytical Batch: 2554091

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

GEL Sample ID#	Client Sample Identification
651804001	AF87807
651804002	AF87768
1205624547	Method Blank (MB)
1205624548	Laboratory Control Sample (LCS)
1205624555	651804001(AF87807) Sample Duplicate (DUP)
1205624556	651804001(AF87807) Post Spike (PS)

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

Data Summary:

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

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 1 / 22 / 24 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

651804

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.G81 / 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	TPC			
AF87807	PM-1	1/8/24	1048	WJK ML	1	G	G	GW	3/1		X			
AF87768	CBW-1	1	1155	1	1	G	1	1	1		X			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
	36851	1/12/24			GEL	1/12/24	
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
		1-12-24	1540	Thermometer GEL		1-12-24	1550
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ **METALS (all)**

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

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Naphthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

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

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative codes: 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: SSOP	SDG/AR/COC/Work Order: 651804 SR
Received By: Thyasia Tatum	Date Received: 1-12-24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	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) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials MG Date 1/16/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 19 January 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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