

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CLOSED GYPSUM POND CROSS GENERATING STATION

**by Santee Cooper
Moncks Corner, South Carolina**

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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 Closed Gypsum Pond 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 Closed Gypsum Pond at CGS was closed under state regulations; however, it was an active CCR impoundment for a brief period after the effective date of the CCR Rule and therefore, continues to be regulated under the CCR Rule. As background, Santee Cooper filed a Notice of Intent with the South Carolina Department of Environmental Services (SCDES), formerly the South Carolina Department of Health and Environmental Control (SCDHEC), on March 10, 2016, to initiate closure of the Gypsum Pond, a permitted industrial wastewater pond. The SCDES-approved closure plan met the requirements of § 257.102(b) and as of October 17, 2016, Santee Cooper had removed all CCR material and a layer of subsurface soils from the Gypsum Pond. On March 22, 2017, SCDES formally certified state closure requirements had been met.

In accordance with § 257.90(e)(6), an overview of the 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), Santee Cooper was operating under an assessment monitoring program in accordance with § 257.95. Beryllium (CGYP-1, CGYP-3, CGYP-4, CGYP-6, and CGYP-7), cobalt (CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7), lead (CGP-2, CGYP-3 and CGYP-7), and lithium (CGYP-3, CGYP-4 and CGYP-6) were observed at statistically significant levels (SSLs) in both the January and June events.

Previously, the statistical analysis of the January 2022 detection monitoring event data determined statistically significant increases (SSIs) of boron, calcium, chloride, sulfate, and total dissolved solids in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; fluoride in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; and pH in monitoring wells CGYP-2, CGYP-3, CGYP-4, and CGYP-6. Therefore, the Closed Gypsum Pond initiated an assessment monitoring program, and the notification was posted on public CCR website on September 29, 2022. Santee Cooper performed the first assessment monitoring sampling event in June 2022 to remain on the routine semi-annual sampling schedule for the facility, sampling for all Appendix III and Appendix IV constituents. The second assessment monitoring event was conducted in October 2022, within 90 days of the first event.

Analytical results were received and validated in December 2022 and the corresponding statistical analysis for the two assessment monitoring event results identified statistically significant levels (SSLs) of beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; cobalt in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; lead in monitoring wells CGYP-2 and CGYP-3; and lithium in monitoring wells CGYP-3, CGYP-4, and CGYP-6. Assessment monitoring results for the 2023 semiannual sampling events resulted in the same SSLs as identified above for the October 2022 event. Therefore, an assessment of corrective measures was initiated on June 7, 2023.

An assessment of corrective measures report was prepared on October 30, 2023. To fulfill the requirement outlined in Title 40 CFR § 257.96(e) of the CCR Rule, a public meeting is planned for 2025 to discuss the assessment of potential groundwater corrective measures for the Closed Gypsum Pond. Therefore, remedy selection and remedial activities are required and will follow the public meeting.

Nature and Extent has been the focus of this unit in 2024. Data from the nature and extent groundwater monitoring wells that were installed for both vertical and horizontal extent in 2023 was collected, additional surface water elevations were added to the synoptic water levels, and CGYP-5 was re-incorporated into the groundwater monitoring network. Robust work was undertaken to complete cross sections for this unit and a draft Nature and Extent Report was compiled in 2024. The final report will be completed in 2025.

At the end of the current annual reporting period (December 31, 2024), the Closed Gypsum Pond was in assessment monitoring as specified in § 257.95 and § 257.96 (b).

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 throughout the active life and post-closure care period of the CCR unit.

The Closed Gypsum Pond at CGS is subject to the groundwater monitoring and corrective action requirements set forth by the EPA in 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR landfill Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

2.2 40 CFR § 257.90(e) – SUMMARY

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

This Annual Groundwater Monitoring and Corrective Action Report documents the activities completed in 2024 for the Closed Gypsum Pond as required by the CCR Rule 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, as set forth in § 257.94 and § 257.95, is provided in this report.

2.2.1 Status of the Groundwater Monitoring Program

The groundwater monitoring program remained in assessment monitoring for the duration of 2024. A summary of the history of the evolution of the monitoring programs is provided in this section.

As required by § 257.93(h), the initial detection monitoring event was conducted in January 2022 followed by the statistical analysis to determine if SSIs of one or more of the Appendix III constituents were present downgradient of the Closed Gypsum Pond. SSIs were observed for Appendix III constituents in multiple wells per § 257.94(h); therefore, the Closed Gypsum Pond initiated an assessment monitoring program on September 29, 2022. As required by § 257.93(h)(2), the statistical analysis of the validated results for both assessment monitoring events were conducted in first quarter 2023 to establish groundwater protection standards (GWPS) and determine SSLs for the Appendix IV constituents present downgradient of the Closed Gypsum Pond. The subsequent statistical evaluation of the detected Appendix IV constituents identified SSLs, specifically beryllium, cobalt, lead, and lithium, above GWPS. Therefore, per § 257.95(g)(3), an assessment of corrective measures and nature and extent evaluation was initiated on June 7, 2023, to evaluate the horizontal and vertical nature and extent of the SSLs downgradient of the CGS Closed Gypsum Pond. An assessment of corrective measures report was completed on October 30, 2023. To fulfill the requirement outlined in § 257.96, a public meeting is to be planned for 2025 with remedy selection to follow. Progress reports were published in May and November 2024.

The statistical analysis of Appendix IV constituents was conducted within 90-days of completing each semiannual sampling and analysis event in 2024 and it was determined that SSLs of beryllium, cobalt, lead and lithium continue to be present downgradient of the Closed Gypsum Pond in wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7. There is no maximum contaminant level (MCL) for cobalt and elevated levels of cobalt were not identified in the background wells; therefore, the GWPS for cobalt is set at the regional screening level (RSL). The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the monitoring events of 2024 were compared to their respective background UTLs and GWPS (Appendix A). A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents.

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), 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)].
- Re-certified the groundwater monitoring network in accordance with § 257.91(f) after confirming localized groundwater flow direction in the vicinity of the Closed Gypsum Pond;
- Collected and analyzed two rounds of groundwater monitoring (January and June) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the concentrations in the facility's operating record as required by § 257.95(d)(1) (which is also consistent with § 257.98 (a)(1)). 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 exceedance of GWPS for Appendix IV constituents in accordance with § 257.93(h)(2). Statistical results are summarized in Appendix A.
- Prepared two semi-annual Remedy Selection Progress Reports in May and November 2024, per § 257.97(a).
- Due to interference from construction of the CGS Effluent Limitation Guidelines treatment (ELG) facility monitoring well, CGYP-6 was relocated following the first sampling event in January 2024. Upon completion of the interfering construction activities in the area, the new replacement monitoring well CGYP-6 was installed and sampled as part of the second sampling event in June 2024. Well installation records are provided in Appendix C.
- Continued with improved 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.

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 will 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 consistent with § 257.95(d)(1) 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.

- Conduct statistical analyses of semi-annual groundwater monitoring analytical results of the CCR compliance wells to determine if SSLs of the detected Appendix IV constituents are present.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions.
- 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 nature and extent evaluation and hold public meeting to discuss the results of the correction measures assessment prior to selection of remedy as required by § 257.96 (e).

2.3 40 CFR § 257.90(e) – Information

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

2.3.1 40 CFR § 257.90(e)(1)

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

As required by § 257.90(e)(1), a map showing the location of the Closed Gypsum Pond and associated upgradient and downgradient wells 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;

Due to interference with ELG construction, existing groundwater monitoring well CGYP-6 had to be relocated. To ensure this well was sampled with the other wells in the groundwater monitoring network, CGYP-6 was sampled in January 2024, prior to abandonment. Following completion of the interfering areas of the ELG construction, South Carolina Certified Well Drillers returned to install a replacement CGYP-6. Well installation records are provided in Appendix C.

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), 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, and monitoring data obtained for the groundwater monitoring program for the Closed Gypsum Pond is presented in Table 1 of this report. In

addition, as required by § 257.95(d)(3), Table 1 includes the GWPS 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

The groundwater monitoring program is in the process of transitioning from assessment monitoring to corrective action. A summary of the evolution of the monitoring programs is provided in this section. Statistical memos are provided in Appendix A.

Following eight rounds of baseline sampling and one round of detection monitoring from the original monitoring wells (CGYP-1, CGYP-2, and CGYP-3) in 2020, the monitoring well network was updated with additional monitoring wells to ensure ongoing compliance with § 257.91(c). Synoptic water levels in one monitoring well (CGYP-3) indicated that groundwater flow directions were not consistent. Flow directions in CGYP-3 fluctuate between downgradient and side gradient of the Closed Gypsum Pond; therefore, the original monitoring network for the Closed Gypsum Pond was supplemented with three additional monitoring wells (CGYP-4, CGYP-5, and CGYP-6).

In 2021, Santee Cooper concluded that analytical results from monitoring well CGYP-5 were not representative of groundwater quality associated with the Closed Gypsum Pond and therefore monitoring well CGYP-5 was removed from the monitoring network for analytical requirements but remained used for evaluating the potentiometric surface. Upon further investigation and analytical results from the nature and extent investigations, CGYP-5 has been added back into the groundwater monitoring network.

As required by § 257.91 and § 257.94, the sample concentrations from the downgradient wells for each of the detected Appendix III constituents from the January 2022 detection monitoring event were compared to their respective background values. SSIs were identified for boron, calcium, chloride, sulfate, and total dissolved solids in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; fluoride in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; and pH in monitoring wells CGYP-2, CGYP-3, CGYP-4, and CGYP-6. Therefore, the Closed Gypsum Pond initiated an assessment monitoring program on September 29, 2022.

Santee Cooper performed the first assessment monitoring event in June 2022 and the second event in October 2022, sampling for all Appendix III and Appendix IV constituents. The analytical results were received and validated in December 2022 and identified statistically significant levels (SSLs) of beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; cobalt in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; lead in monitoring wells CGYP-2 and CGYP-3; and lithium in monitoring wells CGYP-3, CGYP-4, and CGYP-6. Therefore, an assessment of corrective measures was initiated on June 7, 2023. An assessment of corrective measures report was prepared on October 30, 2023.

Nature and extent investigations continue while statistics show SSLs for beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, CGYP-6, and CGYP-7; cobalt in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7; lead in monitoring wells CGYP-2, CGYP-3 and CGYP-7; and lithium in monitoring

wells CGYP-3, CGYP-4 and CGYP-6 in both the January and June events. This CCR unit will continue groundwater monitoring in accordance with the assessment monitoring program until a final remedy is selected and the corrective action groundwater monitoring program is initiated.

2.3.5 40 CFR § 257.90(e)(5)

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

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.95. of the CCR Rule.

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

TABLES

Table 1 - Summary of Analytical Results

Table 2
Cross Generating Station
2024 Synoptic Water Levels for Groundwater Monitoring Wells

Well Name	1st Event - 1/3/2024		2nd Event - 4/9/2024		3rd Event - 6/3/2024		4th Event - 11/6/2024		
	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:

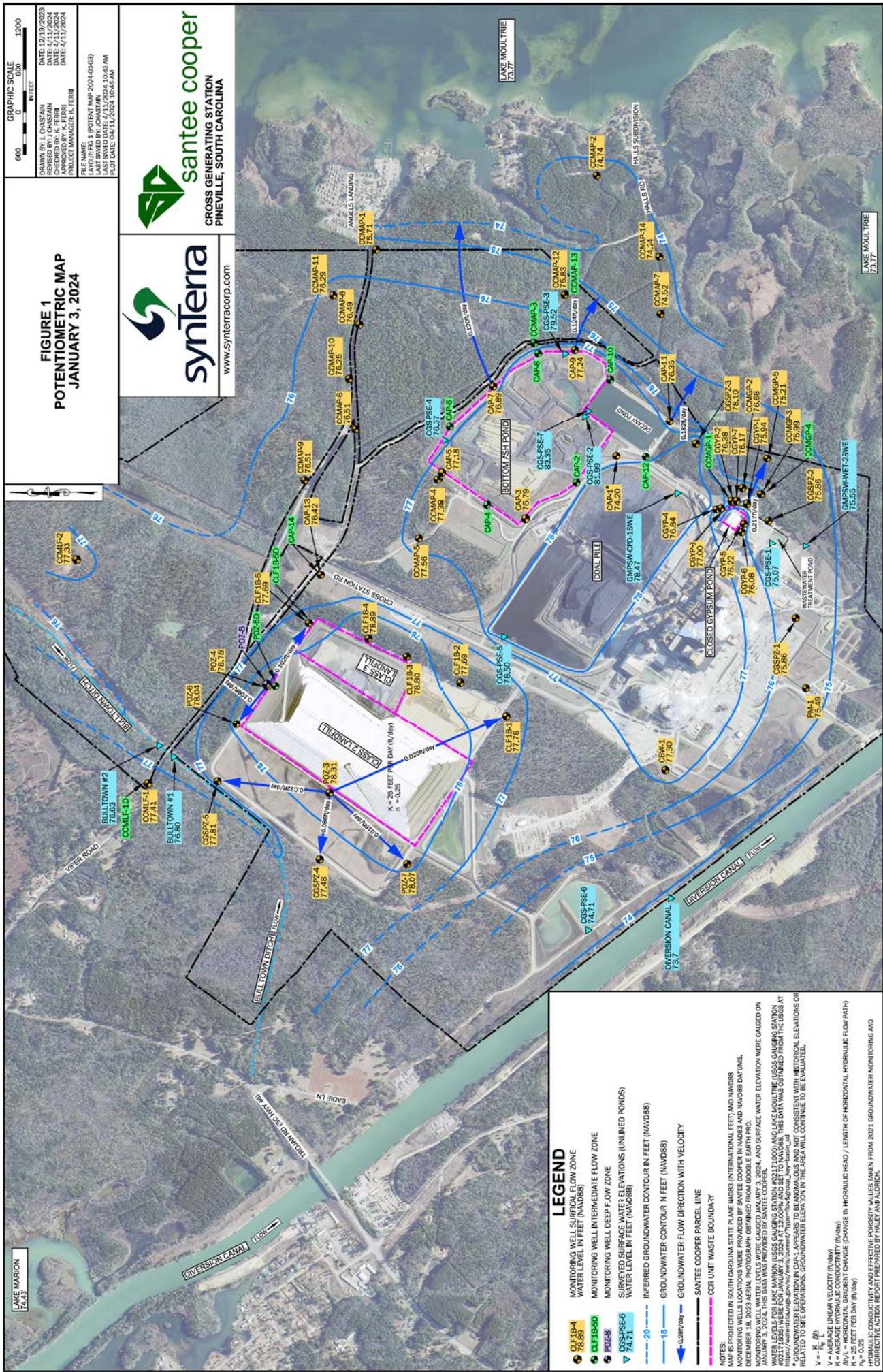
1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SCDES NPDES Permit #SC0037401 and are not used for CCR constituent concentrations.

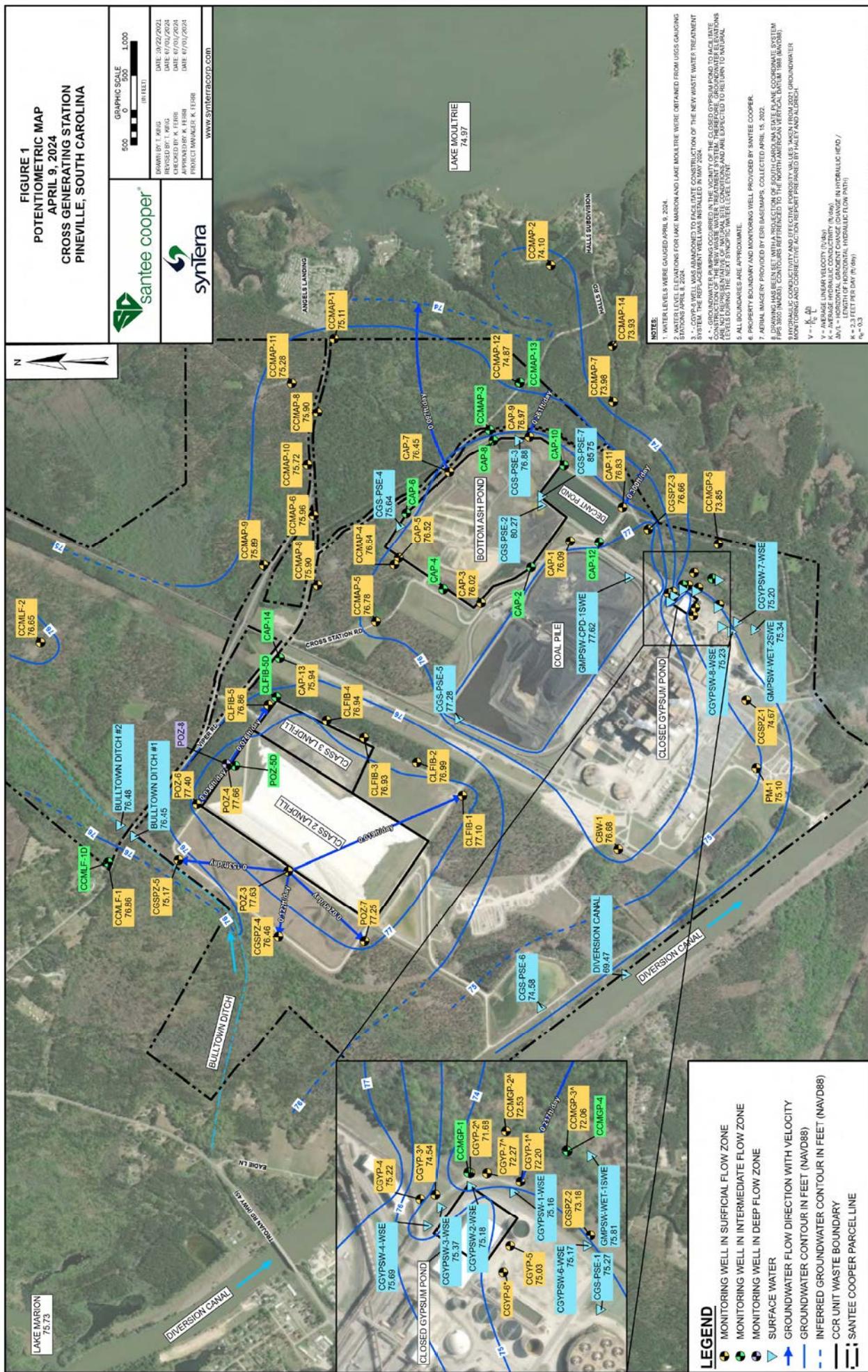
2. Depth to Groundwater is measured below the top of casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to the mean sea level (msl).

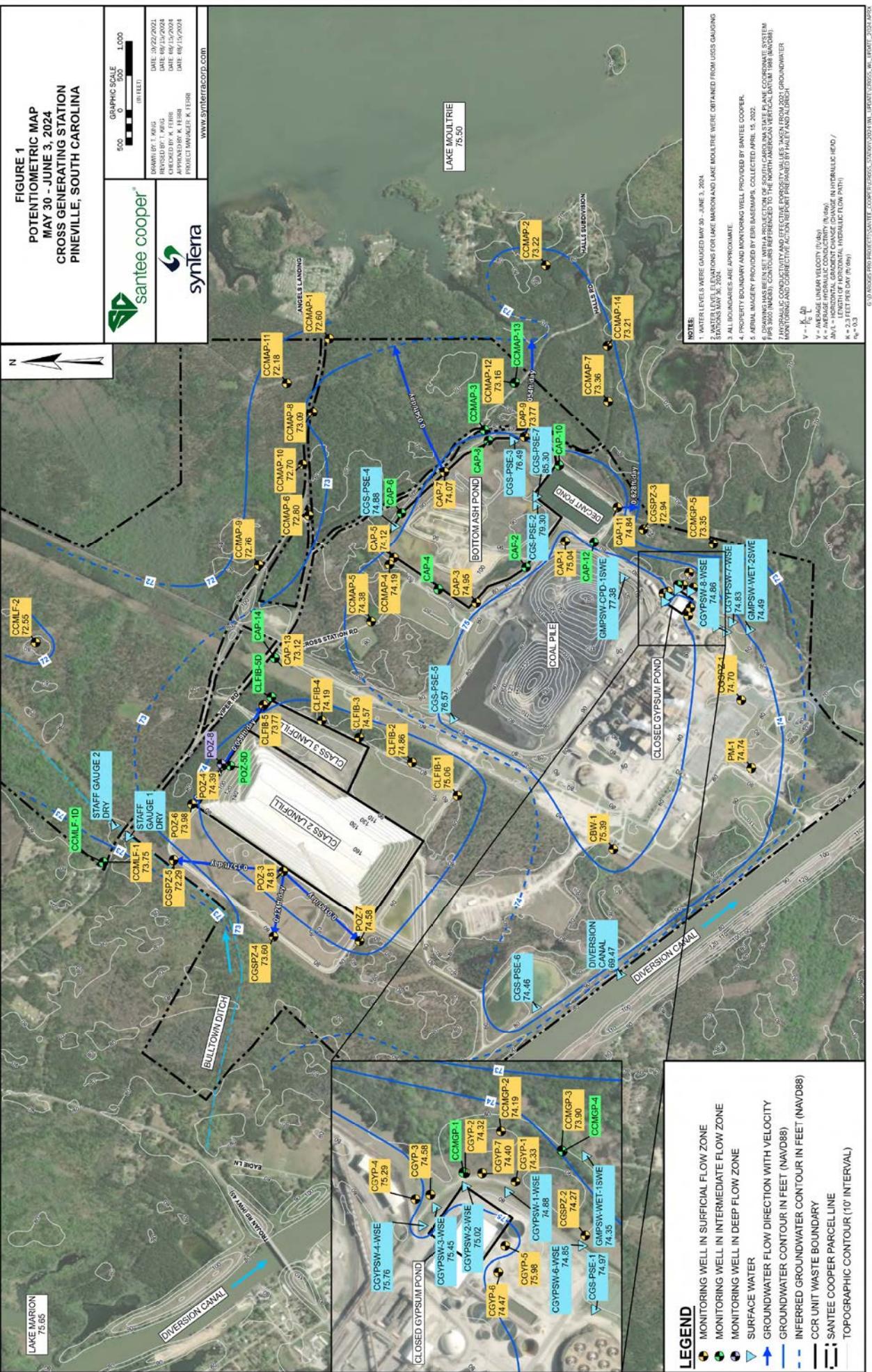
3. Pond surface elevations (PSE) and staff gauge elevations were collected to aid in the potentiometric surface interpretation elevation.

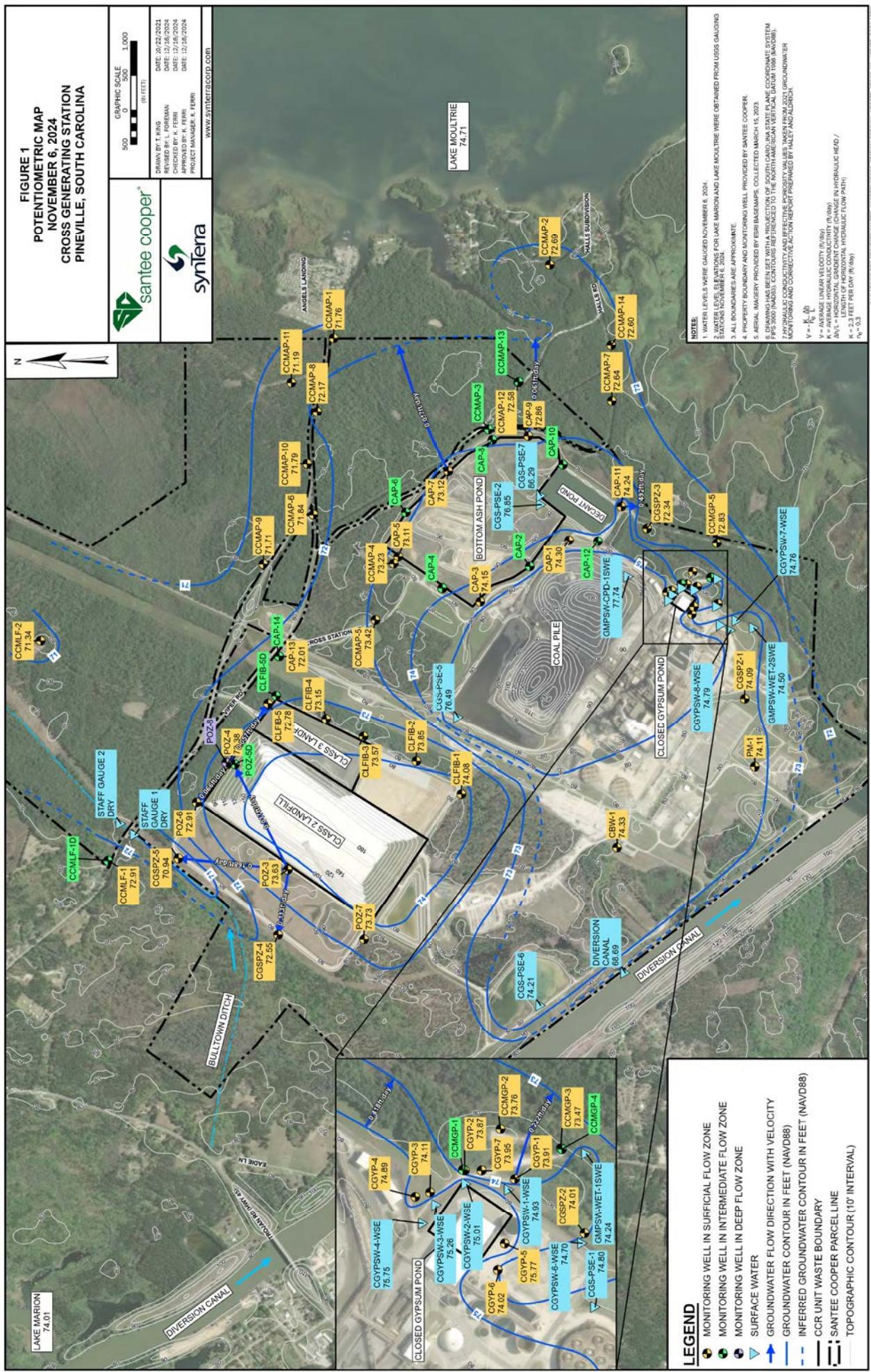
FIGURES





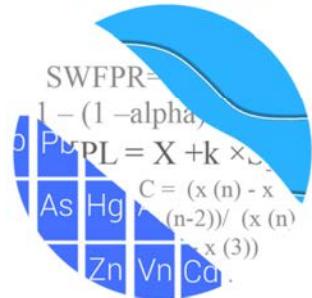






Appendix A – Statistical Analysis

GROUNDWATER STATS
CONSULTING



May 8, 2024

SynTerra
Attn: Ms. Kelly Ferri
148 River Street, Suite 220
Greenville, South Carolina 29601

RE: Cross Generating Station Closed Gypsum Pond –
January 2024 Groundwater Statistical Analysis

Dear Ms. Ferri,

Groundwater Stats Consulting, formerly the statistical consulting division at Sanitas Technologies, is pleased to provide the data screening and statistical analysis of January 2024 sample event of groundwater data at the Cross Generating Station Closed Gypsum Pond for the Coal Combustion Residuals (CCR) program. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting. The monitoring well network consists of the following wells:

- **Upgradient wells:** CBW-1 and PM-1
- **Waste Boundary wells:** CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7
- **Nature and Extent wells:** CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, and CCMGP-5

Sampling began for the CCR program in October 2015 at upgradient wells CBW-1 and PM-1; in May 2020 for downgradient wells CGYP1, CGYP-2, and CGYP-3; in April 2021 for downgradient wells CGYP-4 and CGYP-6; and in October 2022 for downgradient well CGYP-7. All wells are analyzed in this report, including well CGYP-7, which has completed baseline sampling. The Appendix III and IV constituents at waste boundary wells are

evaluated using prediction limits and confidence intervals, respectively, when a minimum of 8 background samples are available.

Wells CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, and CCMGP-5 were installed in June 2023 for nature and extent characterization and have been sampled 4 times since installation.

The following constituents are evaluated:

- **Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that the terms "parameters" and "constituents" are interchangeable throughout this report. When there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs containing 100% non-detects follows this letter.

Time series plots are provided for all well/constituent pairs and are particularly useful for screening data (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots display concentrations over time for each well and are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Outliers and trends in background data result in increased variation and statistical limits that are not conservative (i.e., lower) from a regulatory perspective, if not addressed. When outliers are confirmed, these values are flagged in the computer database with "o" in order to deselect prior to construction of statistical limits. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series graphs. A list of flagged values follows this report (Figure C).

Reporting limit changes may occur depending on laboratory capabilities. A substitution of the most recent reporting limit is used for all non-detects for a given constituent to account for any varying detection limits in background data sets.

Data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of

downgradient wells when intrawell statistical methods are recommended. A power curve is provided to demonstrate that the selected statistical method for the Appendix III Detection Monitoring parameters listed above complies with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 7
- # Downgradient wells: 6

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects.
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment and unrelated to the site. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. Upgradient well data for Appendix III constituents are carefully screened for any new outliers and interwell prediction limits are updated each sample event.

When newer measurements are representative of earlier measurements, the concentrations are incorporated into background. Improved sample size results in statistical limits that provide better representation of the true background population. In some cases, the earlier portion of records may require deselection prior to construction of limits to provide sensitive limits that are representative of present-day groundwater quality conditions and will rapidly detect changes in downgradient wells. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs. A summary of records with truncated data sets will be provided should this step be necessary in the future.

Summary of Background Screening through October 2022 – Appendix III Constituents

Outlier Testing

During the initial background screening conducted in February 2023, Tukey's box plot method was used to evaluate potential outliers through the October 2022 sample event for Appendix III constituents on pooled upgradient well data and at each downgradient well. No outliers were identified for any of the Appendix III constituents; therefore, no values were flagged.

Seasonality

No seasonal patterns were visually apparent in any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be optionally deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Determination of Statistical Methods

The Analysis of Variance (ANOVA) was used to identify the most appropriate statistical approach based on observed groundwater quality upgradient of the Closed Gypsum Pond. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative (i.e., lower) from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameters.

In cases where downgradient concentrations are elevated relative to upgradient concentrations, an independent study and hydrogeological investigation would be required to identify local geochemical conditions and expected groundwater quality for the region to justify an intrawell approach. Such an assessment is beyond the scope of services provided by Groundwater Stats Consulting.

The ANOVA noted variation in groundwater quality among upgradient wells for boron, calcium, chloride, fluoride, pH, and sulfate. No variation was identified between upgradient wells for TDS, making this constituent eligible for interwell prediction limits. For all other Appendix III constituents, the results of the ANOVA indicated intrawell methods should be considered for these parameters if no pre-existing impacts from the unit are suspected in downgradient wells. Additional testing was conducted as described below to determine intrawell eligibility.

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are conservative (i.e., lower) from a regulatory perspective, and that will rapidly identify a change in more recent compliance data from within a given well. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking spatial variation for a release from the facility. Prior to performing intrawell prediction limits, it is necessary to demonstrate that groundwater at downgradient wells is not suspected to have existing impacts from the practices of the facility.

In order to establish baseline upgradient well concentrations, tolerance limits (either parametric or nonparametric as appropriate, depending on the distribution of the data sets) were constructed using pooled upgradient well data for each of the Appendix III

parameters recommended for intrawell analyses. Parametric tolerance limits were constructed with a target of 99% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As more data are collected, the background population is better represented and the confidence and coverage levels increase.

To determine whether average downgradient concentrations are elevated relative to the upgradient well baseline concentrations established by the tolerance limits above, confidence intervals were constructed on downgradient wells for each of the Appendix III parameters exhibiting spatial variation. The results showed that at least one confidence interval exceeded its respective limit for each of the parameters tested.

When the entire confidence interval exceeds a background standard, it is an indication that downgradient concentrations are elevated above background levels. Therefore, interwell methods are recommended initially in lieu of intrawell methods until further research identifies whether the elevated downgradient concentrations are likely the result of natural geological conditions, an off-site source, or may be the result of the facility. After such a study, data would be re-evaluated to determine the most appropriate statistical method.

Trend Testing – Upgradient Wells

The Sen's Slope/Mann Kendall trend test was used to evaluate pooled upgradient well data to identify statistically significant increasing or decreasing trends. Statistically significant increasing trending data are typically not included as part of the background data used for construction of interwell prediction limits. Truncating data sets in upgradient wells to eliminate trends reduces variation in background and results in statistical limits representative of present-day groundwater quality concentrations. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether historic concentration levels are significantly higher than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses identified the following statistically significant trends:

Increasing:

- Chloride: CBW-1

Decreasing:

- Calcium: PM-1
- Fluoride: CBW-1
- Sulfate: PM-1

These trends are relatively low in magnitude when compared to average concentrations within these wells; therefore, no adjustments were required to the data sets. No other statistically significant trends were identified for any of the Appendix III parameters.

Evaluation of Appendix III Constituents – January 2024 Event

Interwell Prediction Limits

Interwell prediction limits were constructed as recommended in the CCR Rule (2015) and in the EPA Unified Guidance (2009), based on a 1-of-2 resample plan, using pooled upgradient well data from wells CBW-1 and PM-1 for boron, calcium, chloride, fluoride, pH, sulfate, and TDS through the January 2024 sample event (Figure D).

The January 2024 samples from each downgradient well were compared to the respective statistical limits. In the event of an initial exceedance of compliance well data, a resample may be collected to determine whether the initial exceedance is confirmed, in which case a statistically significant increase (SSI) is identified. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary.

Parametric prediction limits were constructed when background data followed a normal or transformed-normal distribution. Non-parametric prediction limits are provided for data sets with greater than 50% non-detects, and for data sets which do not follow a normal or transformed-normal distribution. Downgradient measurements were compared to these background limits. Exceedances were noted for the majority of interwell prediction limits which may be seen on the summary tables following this letter.

Trend Tests - Exceedances

When an exceedance occurs in a downgradient well, the exceedance is further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level. Upgradient

wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site (Figure E). Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Chloride: CBW-1 (upgradient)

Decreasing

- Boron: CGYP-4
- Calcium: CGYP-2 and CGYP-4
- Chloride: CGYP-2 and CGYP-4
- Fluoride: CBW-1 (upgradient)
- Sulfate: PM-1 (upgradient) and CGYP-7
- TDS: CGYP-2 and CGYP-4

Summary of Background Screening through October 2022 – Appendix IV Constituents

During the initial background screening conducted in February 2023, upgradient well data were screened through October 2022 for Appendix IV constituents using visual screening to identify whether seasonal patterns or trends are present that would lead to artificially elevated statistical limits. All upgradient well data appeared stable for the Appendix IV constituents.

Tukey's outlier test on pooled upgradient well data through October 2022 identified outliers for cobalt and lead; however, these values were not flagged as outliers since the measurements were either similar to remaining measurements within the records or were less than the established Maximum Contaminant Limits (MCLs). The highest reported observation of 16.3 pCi/L for combined radium 226+228 was not identified as an outlier by Tukey's test, therefore, this measurement was not flagged as an outlier at the time of the screening. If further research indicates this measurement is not representative of groundwater quality upgradient of the facility it will be flagged as an outlier.

Additionally, downgradient well data through October 2022 were screened through visual screening and Tukey's test. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. Tukey's test identified a single value of 0.092 mg/L for lead in well CGYP-3 which was flagged as an outlier in the database since all remaining

measurements were less than 0.036 mg/L. While the test identified an outlier for mercury in well CGYP-3, this measurement was not flagged as an outlier since the concentration was significantly lower than the established MCL. The test also identified a low outlier for selenium in well CGYP-3 which was a reported trace value; therefore, the measurement was not flagged in the database.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits are used to calculate background limits from all available pooled upgradient well data for Appendix IV parameters to determine the background limit for each constituent. Per your request, the interwell upper tolerance limits utilized in this analysis were constructed by Haley & Aldrich, Inc. in the 2022 Annual Groundwater Monitoring and Corrective Action Report for the Closed Gypsum Pond Cross Generating Station. Upper tolerance limits will be updated when sufficient samples are available.

Groundwater Protection Standards

Interwell upper tolerance limits were compared to the MCLs and CCR-Rule specified levels in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure F).

Evaluation of Appendix IV Parameters – January 2024 Event

Prior to evaluating Appendix IV parameters, background data were reviewed through visual screening at upgradient wells for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. No additional outliers were flagged during this analysis and a list of outliers follows this report (Figure C). Data at downgradient well CGYP-7 were also visually screened for outliers since sufficient samples were available for evaluation of Appendix IV constituents. No measurements were flagged as outliers at this well.

Confidence Intervals – Downgradient Wells

Confidence intervals were then constructed on downgradient wells with data through January 2024 for each of the Appendix IV parameters using the highest limit of the MCL, the CCR-Rule specified levels, or background limits as discussed above (Figure G). Well/constituent pairs containing 100% non-detects do not require statistical analyses. No confidence intervals were required for antimony, molybdenum, and thallium as well downgradient well/constituent pairs contained 100% non-detects.

These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. A summary of the confidence interval results follows this letter. Exceedances were identified for the following well/constituent pairs:

- Beryllium: CGYP-1, CGYP-3, CGYP-4, CGYP-6, and CGYP-7
- Cobalt: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7
- Lead: CGYP-2, CGYP-3, and CGYP-7
- Lithium: CGYP-3, CGYP-4, and CGYP-6

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Closed Gypsum Pond. If you have any questions or comments, please feel free to contact us.

Sincerely,

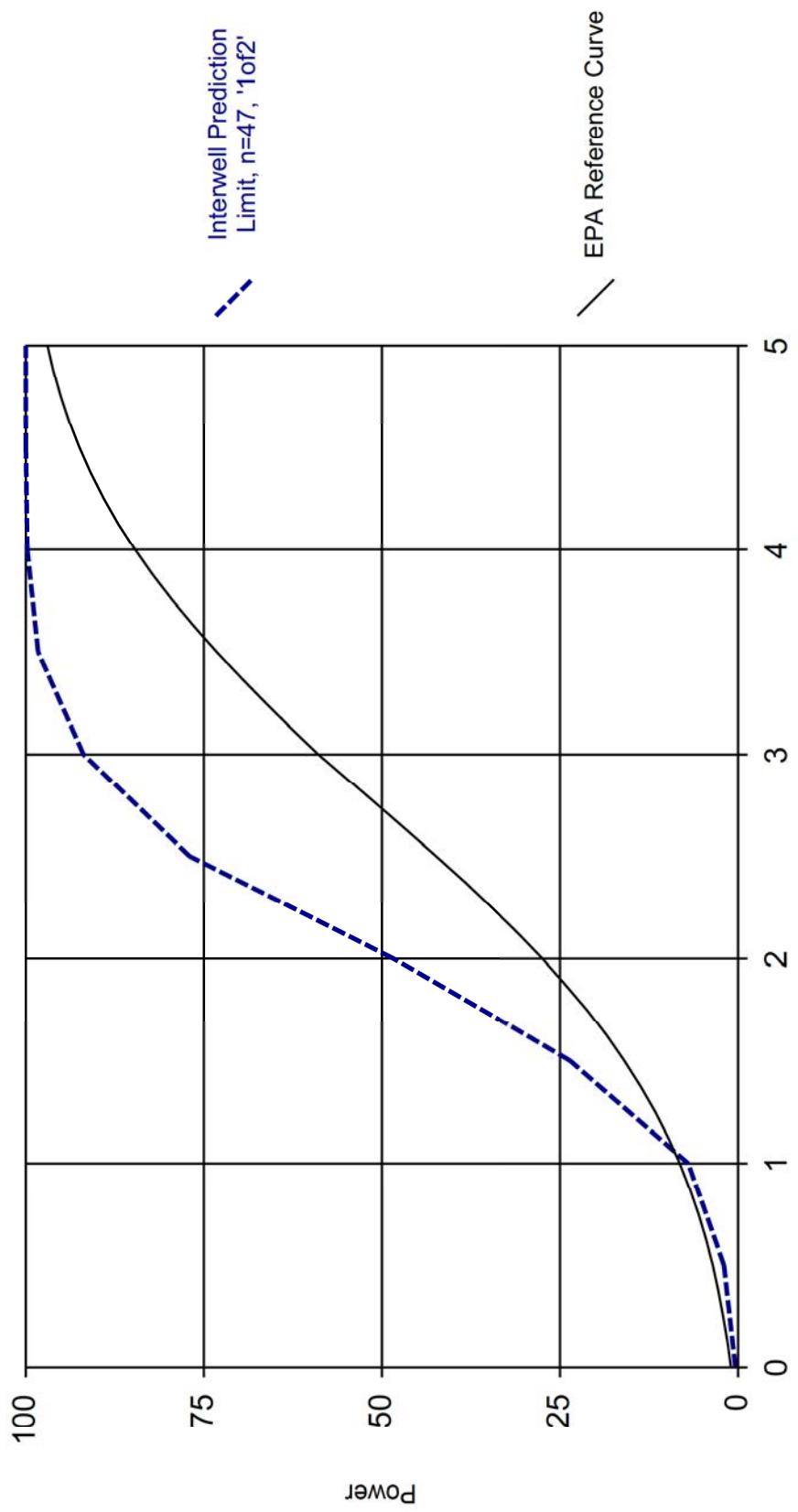


Andrew T. Collins
Project Manager



Kristina L. Rayner
Senior Statistician

Interwell Power Curve



Kappa = 1.91, based on 6 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/4/2024 2:31 PM

CGYP Client: Santee Cooper Data: CGYP

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/4/2024 2:20 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

Antimony (mg/L)

CGYP-1, CGYP-2, CGYP-3, CGYP-4

Arsenic (mg/L)

CGYP-6

Chromium (mg/L)

CGYP-1, CGYP-2, CGYP-4, CGYP-7

Mercury (mg/L)

CGYP-2, CGYP-4, CGYP-6, CGYP-7

Molybdenum (mg/L)

CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Selenium (mg/L)

CGYP-6

Thallium (mg/L)

CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Appendix III Interwell Prediction Limits - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	1/10/2024	9.72	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-3	0.836	n/a	1/10/2024	21.5	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-4	0.836	n/a	1/10/2024	5.18	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-6	0.836	n/a	1/4/2024	8.33	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-7	0.836	n/a	1/4/2024	10.3	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Calcium (mg/L)	CGYP-1	50.89	n/a	1/10/2024	257	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-2	50.89	n/a	1/4/2024	173	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-3	50.89	n/a	1/10/2024	665	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-4	50.89	n/a	1/10/2024	221	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-6	50.89	n/a	1/4/2024	474	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-7	50.89	n/a	1/4/2024	343	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Chloride (mg/L)	CGYP-1	13.5	n/a	1/10/2024	733	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-2	13.5	n/a	1/4/2024	59.3	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-3	13.5	n/a	1/10/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-4	13.5	n/a	1/10/2024	334	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-6	13.5	n/a	1/4/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-7	13.5	n/a	1/4/2024	802	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	CGYP-1	0.3	n/a	1/10/2024	0.84	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-2	0.3	n/a	1/4/2024	0.92	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-3	0.3	n/a	1/10/2024	0.98	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-4	0.3	n/a	1/10/2024	1.17	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-6	0.3	n/a	1/4/2024	1.08	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-7	0.3	n/a	1/4/2024	1.01	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
pH, Field (pH units)	CGYP-2	5.58	4.09	1/4/2024	3.83	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-3	5.58	4.09	1/10/2024	4.01	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-4	5.58	4.09	1/10/2024	3.81	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-6	5.58	4.09	1/4/2024	3.7	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-7	5.58	4.09	1/4/2024	3.77	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-1	115	n/a	1/10/2024	384	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-2	115	n/a	1/4/2024	1130	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-3	115	n/a	1/10/2024	889	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-4	115	n/a	1/10/2024	502	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-6	115	n/a	1/4/2024	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-7	115	n/a	1/4/2024	684	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-1	205.2	n/a	1/10/2024	1570	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-2	205.2	n/a	1/4/2024	1326	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-3	205.2	n/a	1/10/2024	3978	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-4	205.2	n/a	1/10/2024	1339	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-6	205.2	n/a	1/4/2024	2484	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-7	205.2	n/a	1/4/2024	2120	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	

Appendix III Interwell Prediction Limits - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	1/10/2024	9.72	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-2	0.836	n/a	1/4/2024	0.727	No	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-3	0.836	n/a	1/10/2024	21.5	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-4	0.836	n/a	1/10/2024	5.18	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-6	0.836	n/a	1/4/2024	8.33	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-7	0.836	n/a	1/4/2024	10.3	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Calcium (mg/L)	CGYP-1	50.89	n/a	1/10/2024	257	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-2	50.89	n/a	1/4/2024	173	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-3	50.89	n/a	1/10/2024	665	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-4	50.89	n/a	1/10/2024	221	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-6	50.89	n/a	1/4/2024	474	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-7	50.89	n/a	1/4/2024	343	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Chloride (mg/L)	CGYP-1	13.5	n/a	1/10/2024	733	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-2	13.5	n/a	1/4/2024	59.3	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-3	13.5	n/a	1/10/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-4	13.5	n/a	1/10/2024	334	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-6	13.5	n/a	1/4/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-7	13.5	n/a	1/4/2024	802	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	CGYP-1	0.3	n/a	1/10/2024	0.84	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-2	0.3	n/a	1/4/2024	0.92	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-3	0.3	n/a	1/10/2024	0.98	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-4	0.3	n/a	1/10/2024	1.17	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-6	0.3	n/a	1/4/2024	1.08	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-7	0.3	n/a	1/4/2024	1.01	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
pH, Field (pH units)	CGYP-1	5.58	4.09	1/10/2024	4.39	No	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-2	5.58	4.09	1/4/2024	3.83	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-3	5.58	4.09	1/10/2024	4.01	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-4	5.58	4.09	1/10/2024	3.81	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-6	5.58	4.09	1/4/2024	3.7	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-7	5.58	4.09	1/4/2024	3.77	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-1	115	n/a	1/10/2024	384	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-2	115	n/a	1/4/2024	1130	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-3	115	n/a	1/10/2024	889	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-4	115	n/a	1/10/2024	502	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-6	115	n/a	1/4/2024	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-7	115	n/a	1/4/2024	604	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-1	205.2	n/a	1/10/2024	1570	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-2	205.2	n/a	1/4/2024	1328	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-3	205.2	n/a	1/10/2024	3978	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-4	205.2	n/a	1/10/2024	1339	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-6	205.2	n/a	1/4/2024	2484	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-7	205.2	n/a	1/4/2024	2120	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	

Appendix III Trend Tests Summary - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:18 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CGYP-4	-1.182	-55	-43	Yes	13	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-32.05	-94	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-49.92	-61	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.1114	137	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-26.99	-75	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-157.5	-76	-43	Yes	13	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-98	Yes	23	4.348	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-112.5	-26	-25	Yes	9	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.9378	-151	-111	Yes	25	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-53.84	-74	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-303.1	-57	-43	Yes	13	0	n/a	0.01	NP

Appendix III Trend Tests Summary - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:18 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CBW-1 (bg)	-0.0007486	-85	-105	No	24	8.333	n/a	0.01	NP
Boron (mg/L)	CGYP-1	0	2	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	CGYP-3	-0.1787	-18	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	CGYP-4	-1.182	-55	-43	Yes	13	0	n/a	0.01	NP
Boron (mg/L)	CGYP-6	0	0	43	No	13	0	n/a	0.01	NP
Boron (mg/L)	CGYP-7	-1.421	-21	-25	No	9	0	n/a	0.01	NP
Boron (mg/L)	PM-1 (bg)	-9.1e-10	-44	-98	No	23	39.13	n/a	0.01	NP
Calcium (mg/L)	CBW-1 (bg)	0.4058	67	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-1	-9.09	-26	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-32.05	-94	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-3	-34.76	-34	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-49.92	-61	-43	Yes	13	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-6	-5.288	-3	-43	No	13	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-7	-51.77	-6	-25	No	9	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.8489	-100	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.1114	137	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-1	16.22	44	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-26.99	-75	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-3	-57.63	-25	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-157.5	-76	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-6	-5.853	-8	-43	No	13	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-7	-170.3	-12	-25	No	9	0	n/a	0.01	NP
Chloride (mg/L)	PM-1 (bg)	-0.003206	-19	-111	No	25	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-98	Yes	23	4.348	n/a	0.01	NP
Fluoride (mg/L)	CGYP-1	0.009171	2	68	No	18	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-2	0.0469	7	68	No	18	11.11	n/a	0.01	NP
Fluoride (mg/L)	CGYP-3	0.05043	3	68	No	18	5.556	n/a	0.01	NP
Fluoride (mg/L)	CGYP-4	-0.6108	-42	-43	No	13	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-6	-0.06716	-14	-43	No	13	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-7	0.282	8	25	No	9	11.11	n/a	0.01	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	98	No	23	100	n/a	0.01	NP
pH, Field (pH units)	CBW-1 (bg)	0.003572	19	111	No	25	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-2	0.04654	36	68	No	18	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-3	0	-2	-68	No	18	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-4	0.06893	27	43	No	13	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-6	0.02387	14	43	No	13	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-7	0.0364	2	25	No	9	0	n/a	0.01	NP
pH, Field (pH units)	PM-1 (bg)	-0.005573	-17	-139	No	29	0	n/a	0.01	NP
Sulfate (mg/L)	CBW-1 (bg)	0.9778	43	111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-1	-18.83	-15	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-2	6.867	12	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-3	-4.977	-11	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-4	-34.34	-38	-43	No	13	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-6	23.05	39	43	No	13	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-112.5	-26	-25	Yes	9	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.9378	-151	-111	Yes	25	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CBW-1 (bg)	4.776	71	111	No	25	4	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-1	-27.99	-25	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-53.84	-74	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-3	-147	-35	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-303.1	-57	-43	Yes	13	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-6	-134.1	-10	-43	No	13	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-7	-515.3	-22	-25	No	9	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	PM-1 (bg)	-1.525	-40	-139	No	29	3.448	n/a	0.01	NP

CYGP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.025	0.025
Arsenic, Total (mg/L)	0.01		0.016	0.016
Barium, Total (mg/L)	2		0.103	2
Beryllium, Total (mg/L)	0.004		0.00063	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.014	0.1
Cobalt, Total (mg/L)		0.006	0.0034	0.006
Combined Radium 226 + 228 (pCi/L)	5		16.3	16.3
Fluoride, Total (mg/L)	4		0.3	4
Lead, Total (mg/L)		0.015	0.011	0.015
Lithium, Total (mg/L)		0.04	0.01	0.04
Mercury, Total (mg/L)	0.002		0.0006	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.02	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*GWPS = Groundwater Protection Standard

*MCL = Maximum Contaminant Limit

*CCR = Coal Combustion Residuals

Shaded cells indicate background limit is higher than established MCL.

Appendix IV Confidence Intervals - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:24 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CGYP-1	0.011	0.0058	0.004	Yes	17	0.008252	0.002954	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-3	0.03803	0.02624	0.004	Yes	17	0.03214	0.009415	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01724	0.01379	0.004	Yes	13	0.01552	0.002322	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02667	0.02096	0.004	Yes	13	0.02382	0.003838	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01134	0.006568	0.004	Yes	9	0.008952	0.002469	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-1	0.04933	0.0343	0.006	Yes	17	0.04181	0.01199	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.019	0.006	Yes	17	0.02327	0.008721	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1323	0.08617	0.006	Yes	17	0.1092	0.03681	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04859	0.03339	0.006	Yes	13	0.0401	0.01186	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.1651	0.1326	0.006	Yes	13	0.1488	0.02185	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.09336	0.04155	0.006	Yes	9	0.06746	0.02683	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-2	0.02416	0.01891	0.015	Yes	17	0.02109	0.005246	5.882	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.02927	0.02123	0.015	Yes	16	0.02525	0.006183	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-7	0.04705	0.02995	0.015	Yes	9	0.0385	0.008854	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-3	0.09508	0.05834	0.04	Yes	17	0.07671	0.02932	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-4	0.06747	0.05169	0.04	Yes	13	0.05958	0.01061	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1616	0.1179	0.04	Yes	13	0.1398	0.02941	0	None	No	0.01	Param.

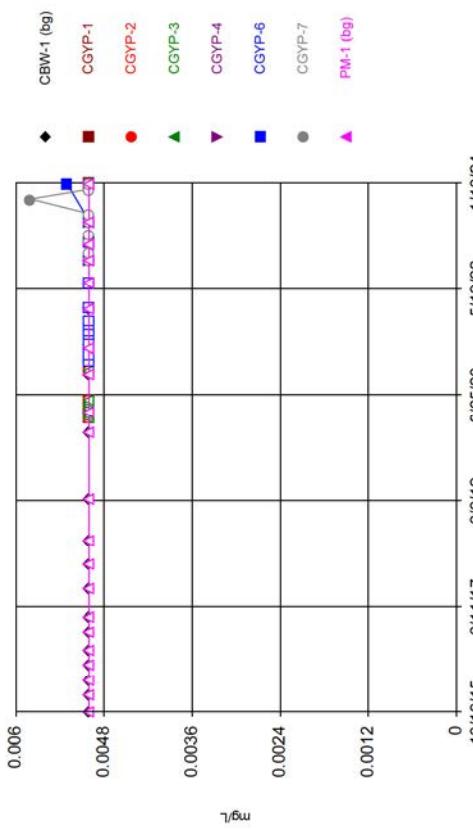
Appendix IV Confidence Intervals - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	CGYP-6	0.0053	0.005	0.025	No	13	0.005023	0.00008321	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	CGYP-7	0.0058	0.005	0.025	No	9	0.005089	0.0002667	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	CGYP-1	0.02985	0.01329	0.016	No	17	0.02157	0.01321	5.882	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-2	0.0211	0.0139	0.016	No	17	0.01651	0.007042	11.76	None	x^2	0.01	Param.
Arsenic (mg/L)	CGYP-3	0.01838	0.01226	0.016	No	17	0.01532	0.004889	5.882	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-4	0.0115	0.00462	0.016	No	13	0.008428	0.003053	7.692	None	No	0.01	NP (normality)
Arsenic (mg/L)	CGYP-7	0.02122	0.01088	0.016	No	9	0.01582	0.006178	0	None	x^2	0.01	Param.
Barium (mg/L)	CGYP-1	0.05462	0.0378	2	No	17	0.04675	0.01423	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	CGYP-2	0.03172	0.01644	2	No	17	0.02408	0.0122	5.882	None	No	0.01	Param.
Barium (mg/L)	CGYP-3	0.0486	0.03371	2	No	17	0.04115	0.01188	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-4	0.03749	0.0268	2	No	13	0.03215	0.007191	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-6	0.5896	0.2573	2	No	13	0.4235	0.2235	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-7	0.02891	0.02098	2	No	9	0.02488	0.004632	0	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-1	0.011	0.0058	0.004	Yes	17	0.008252	0.002954	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-2	0.004007	0.002999	0.004	No	17	0.003503	0.0008037	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-3	0.03803	0.02624	0.004	Yes	17	0.03214	0.009415	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01724	0.01379	0.004	Yes	13	0.01552	0.002322	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02667	0.02096	0.004	Yes	13	0.02382	0.003838	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01134	0.006568	0.004	Yes	9	0.008952	0.002469	0	None	No	0.01	Param.
Cadmium (mg/L)	CGYP-1	0.0013	0.0005	0.005	No	17	0.0006471	0.0004446	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-2	0.001	0.0005	0.005	No	17	0.0005824	0.000243	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-3	0.0008	0.0005	0.005	No	17	0.0007435	0.0003899	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	CGYP-4	0.0008	0.0005	0.005	No	13	0.0005231	0.00008321	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-6	0.0006	0.0005	0.005	No	13	0.0005077	0.00002774	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-7	0.0032	0.0005	0.005	No	9	0.001228	0.00111	44.44	None	No	0.002	NP (normality)
Chromium (mg/L)	CGYP-3	0.006859	0.005489	0.1	No	17	0.006188	0.0012	17.65	Kaplan-Meier	In(x)	0.01	Param.
Chromium (mg/L)	CGYP-6	0.0061	0.005	0.1	No	13	0.005085	0.0003051	92.31	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	CGYP-1	0.04933	0.0343	0.006	Yes	17	0.04181	0.01199	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.019	0.006	Yes	17	0.02327	0.008721	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1323	0.08617	0.006	Yes	17	0.1092	0.03681	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04859	0.03339	0.006	Yes	13	0.0401	0.01186	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.1651	0.1326	0.006	Yes	13	0.1488	0.02185	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.09336	0.04155	0.006	Yes	9	0.06746	0.02683	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-1	4.487	3.264	16.3	No	17	3.909	1.04	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-2	3.08	1.958	16.3	No	17	2.563	0.9594	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-3	6.176	4.549	16.3	No	17	5.363	1.298	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-4	5.35	3.198	16.3	No	13	4.274	1.447	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-6	6.996	3.568	16.3	No	13	5.282	2.305	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-7	6.831	4.247	16.3	No	9	5.539	1.338	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-1	1.148	0.8051	4	No	18	0.9767	0.2836	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-2	1.012	0.5107	4	No	18	0.7611	0.4139	11.11	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-3	3.034	1.164	4	No	18	2.099	1.545	5.556	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-4	2.138	1.058	4	No	13	1.598	0.7264	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-6	0.9627	0.5896	4	No	13	0.7762	0.2509	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-7	1.436	0.4308	4	No	9	0.9333	0.5205	11.11	None	No	0.01	Param.
Lead (mg/L)	CGYP-1	0.01529	0.005765	0.015	No	17	0.01132	0.008498	5.882	None	sqrt(x)	0.01	Param.
Lead (mg/L)	CGYP-2	0.02416	0.01891	0.015	Yes	17	0.02109	0.005246	5.882	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.02927	0.02123	0.015	Yes	16	0.02525	0.006183	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-4	0.01385	0.009479	0.015	No	13	0.01166	0.002938	7.692	None	No	0.01	Param.
Lead (mg/L)	CGYP-6	0.01366	0.007788	0.015	No	13	0.01072	0.003947	7.692	None	No	0.01	Param.
Lead (mg/L)	CGYP-7	0.04705	0.02995	0.015	Yes	9	0.0385	0.008854	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-1	0.02007	0.01116	0.04	No	17	0.01641	0.006979	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	CGYP-2	0.015	0.005	0.04	No	17	0.01121	0.00441	29.41	None	No	0.01	NP (normality)
Lithium (mg/L)	CGYP-3	0.09508	0.05834	0.04	Yes	17	0.07671	0.02932	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-4	0.06747	0.05169	0.04	Yes	13	0.05958	0.01061	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1616	0.1179	0.04	Yes	13	0.1398	0.02941	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-7	0.05	0.00732	0.04	No	9	0.01965	0.01738	22.22	None	No	0.002	NP (normality)
Mercury (mg/L)	CGYP-1	0.0002	0.0002	0.002	No	17	0.0002	1.2e-12	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	CGYP-3	0.00021	0.0002	0.002	No	17	0.0002182	0.00006531	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-1	0.0166	0.01	0.05	No	17	0.01288	0.004612	64.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-2	0.0113	0.0078	0.05	No	17	0.01118	0.004241	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-3	0.014	0.0067	0.05	No	17	0.01057	0.002529	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-4	0.01	0.00856	0.05	No	13	0.009889	0.0003994	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-7	0.0558	0.002	0.05	No	9	0.0182	0.01888	66.67	None	No	0.002	NP (NDs)

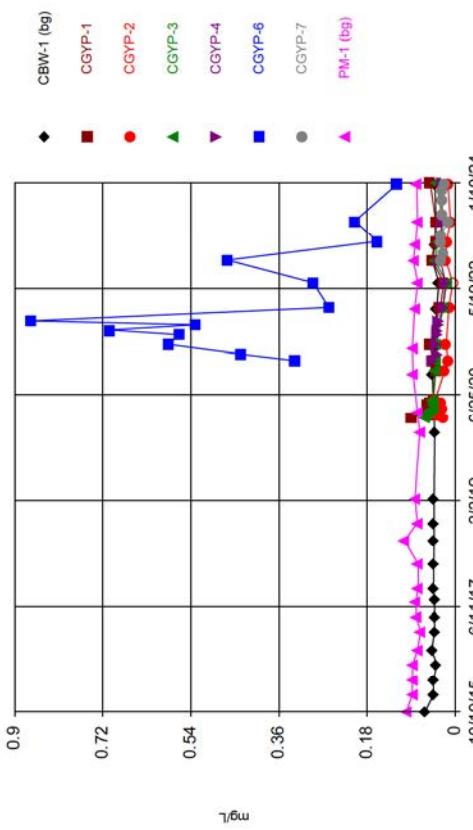
FIGURE A.

Time Series

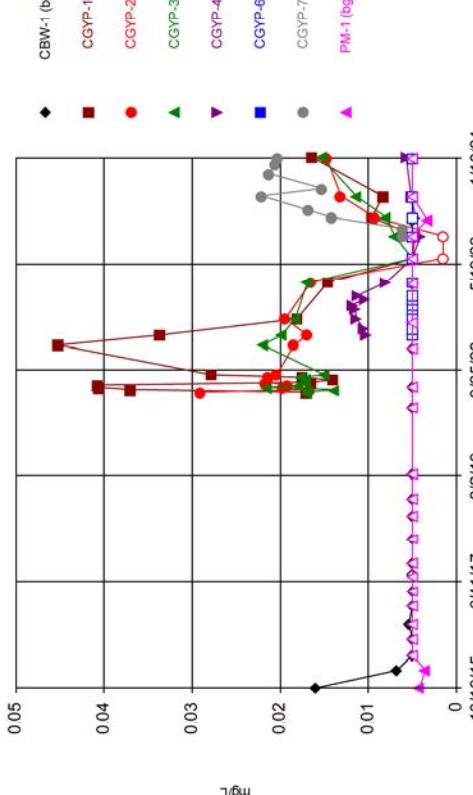


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Hollow symbols indicate censored values.

Time Series

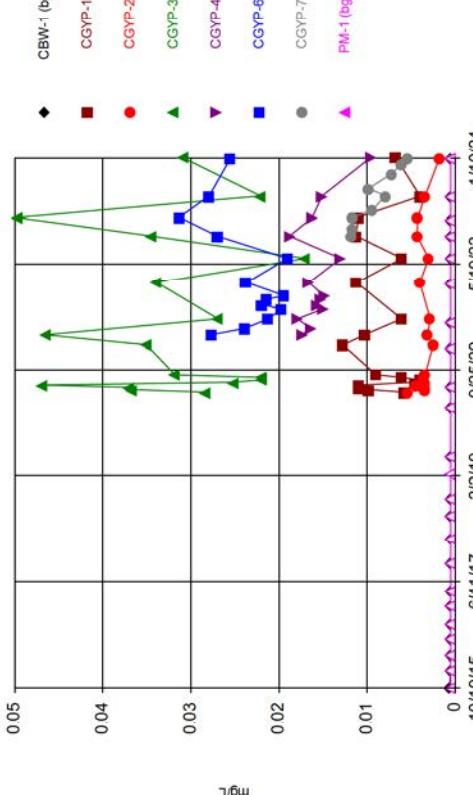


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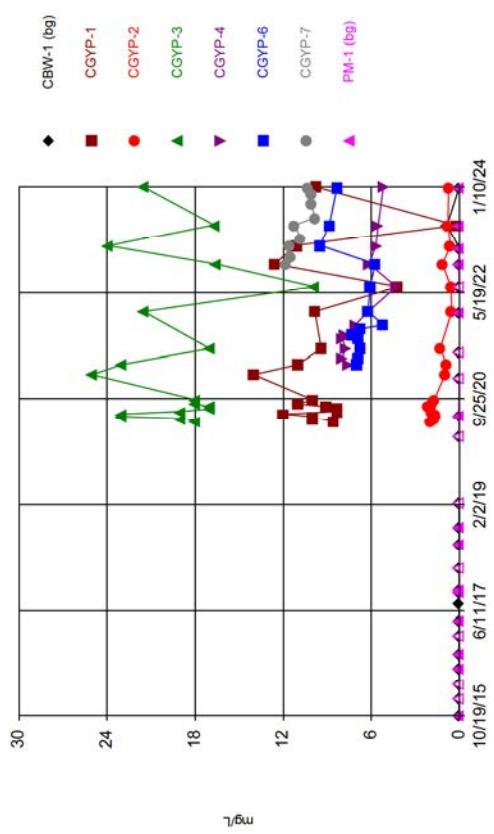
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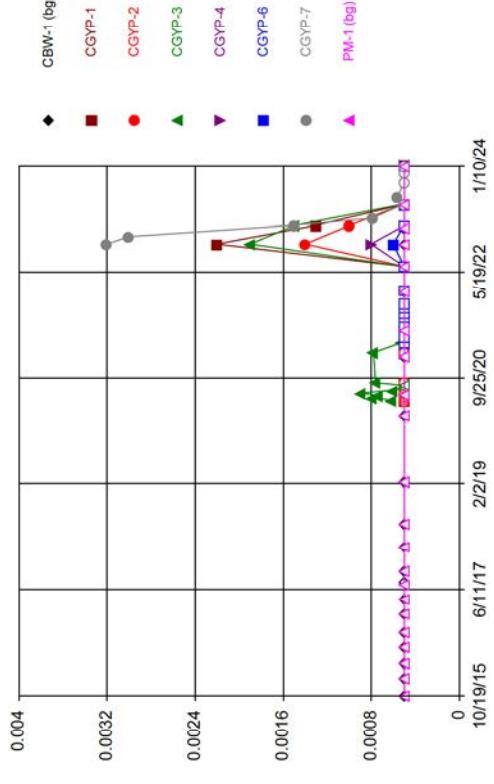


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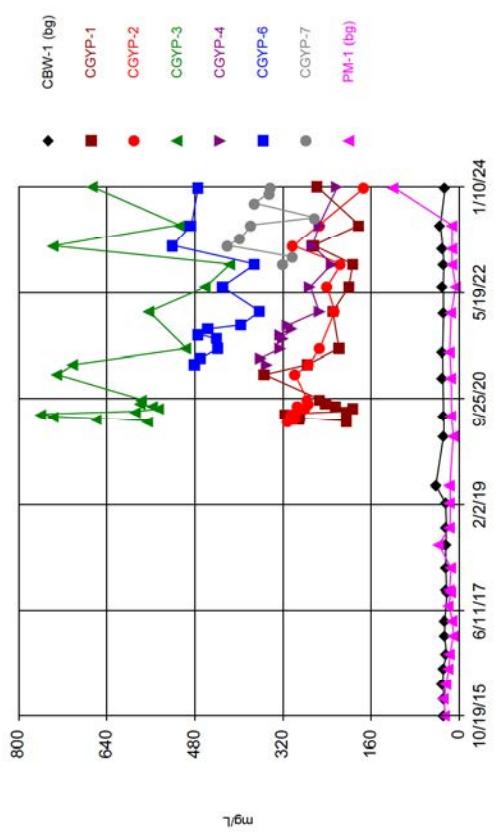
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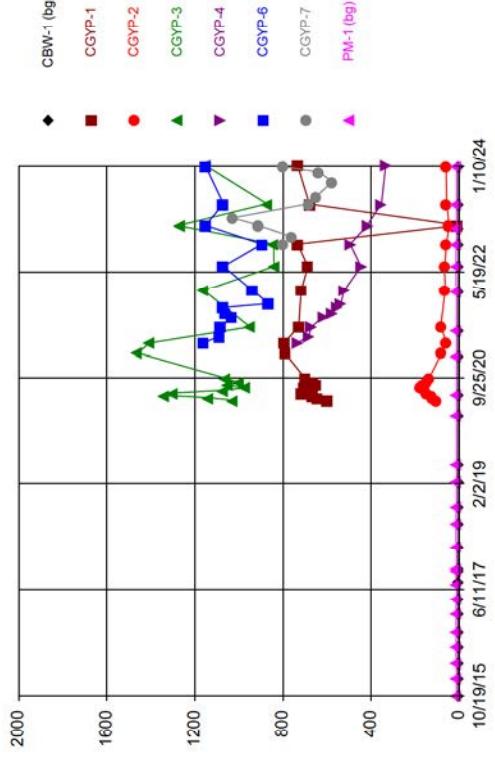
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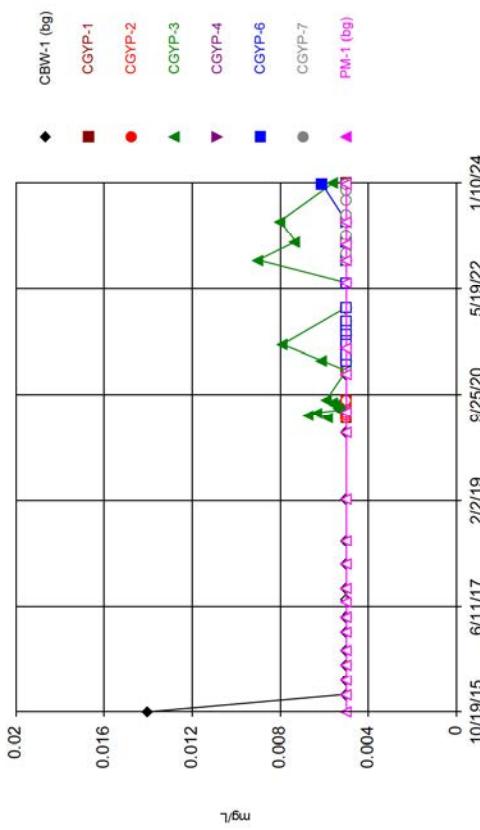
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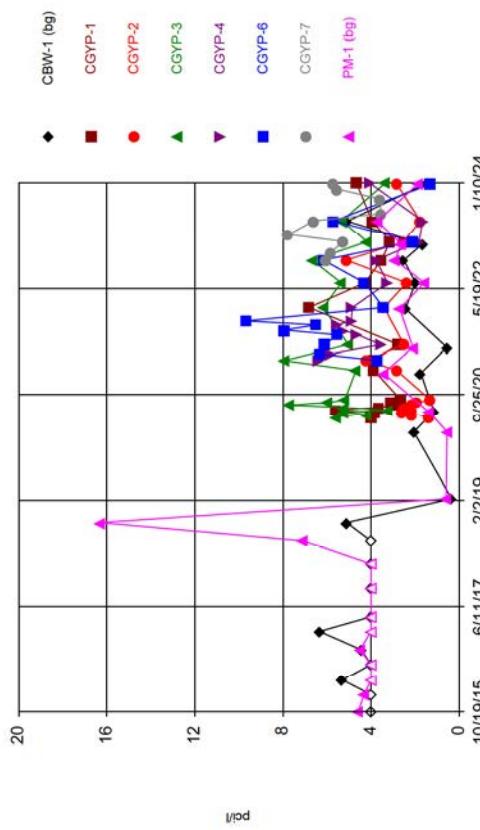
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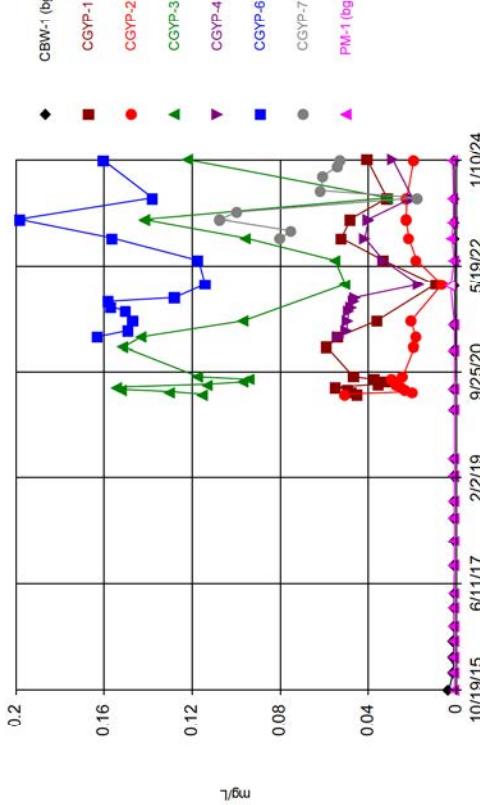
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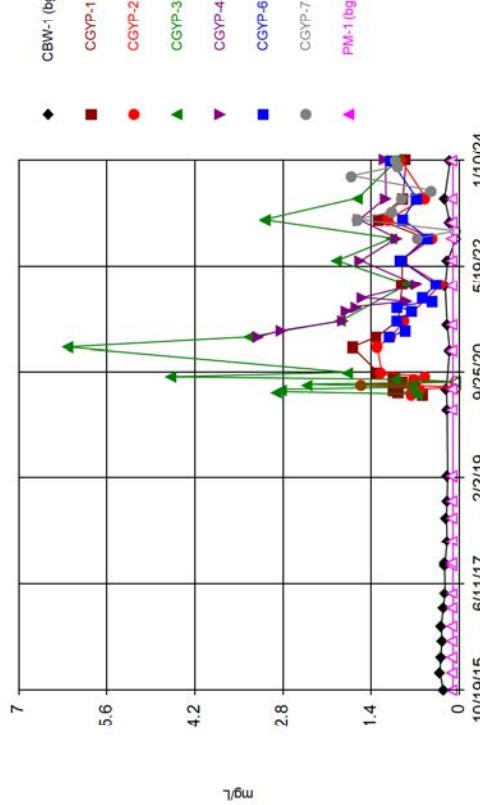
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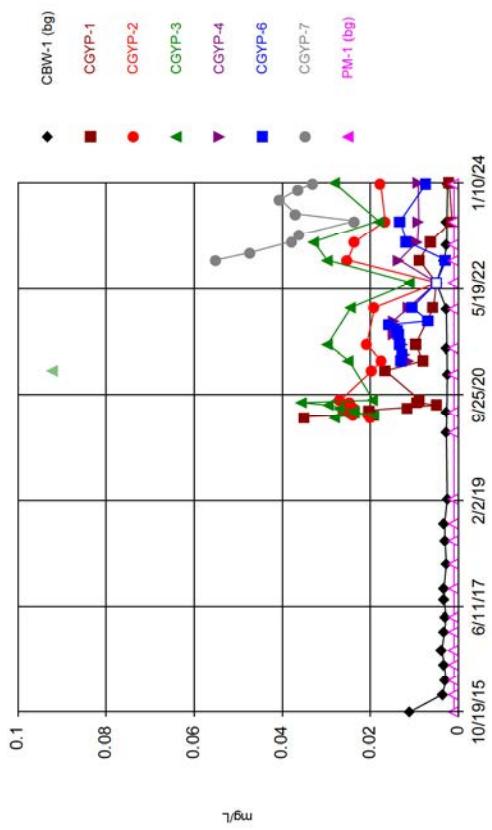
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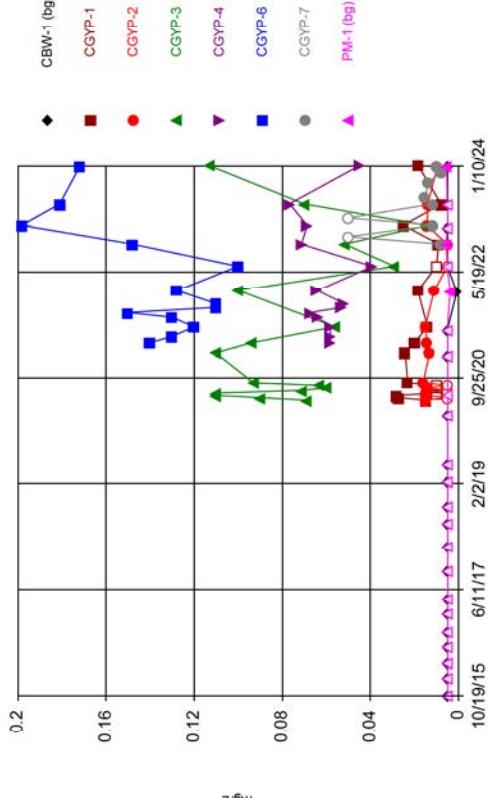
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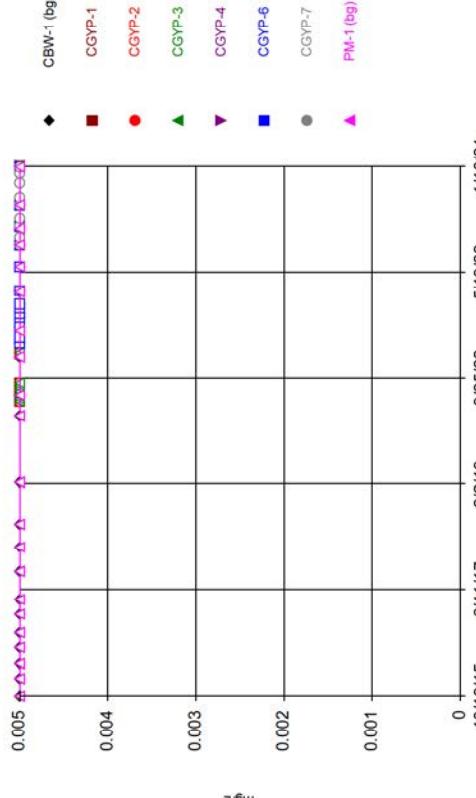
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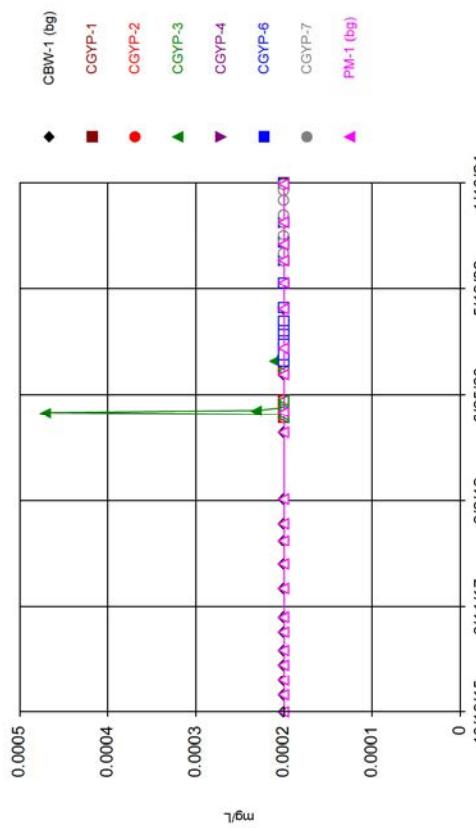
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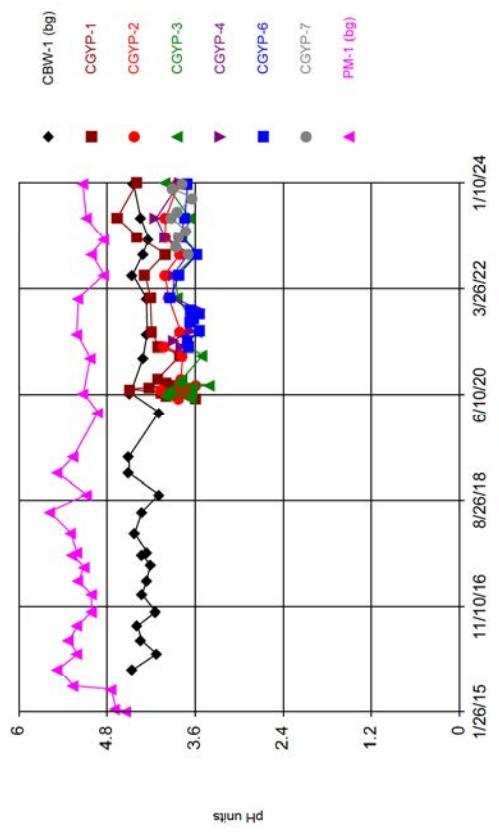
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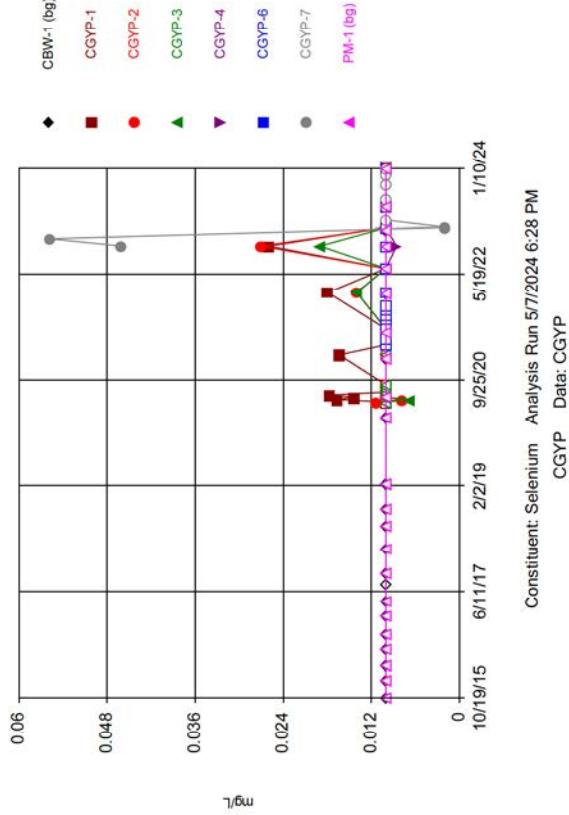
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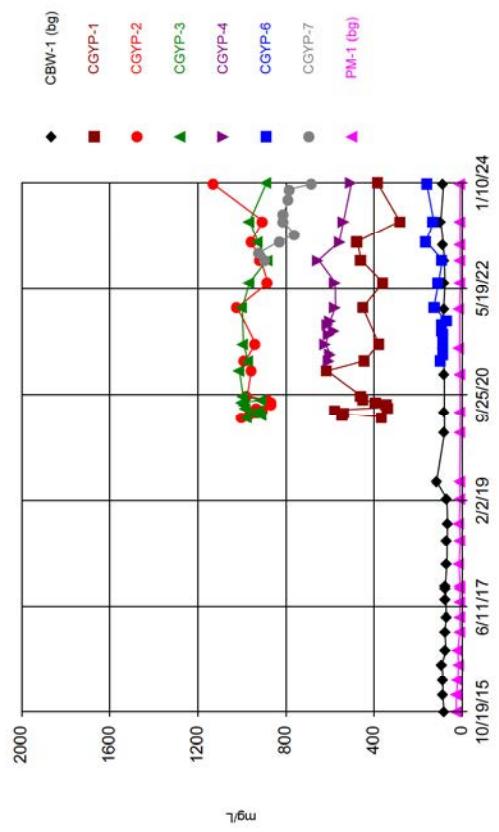
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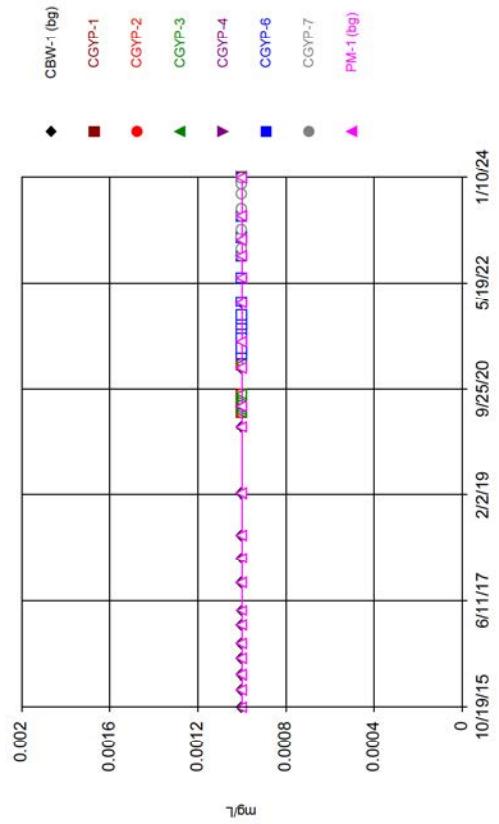
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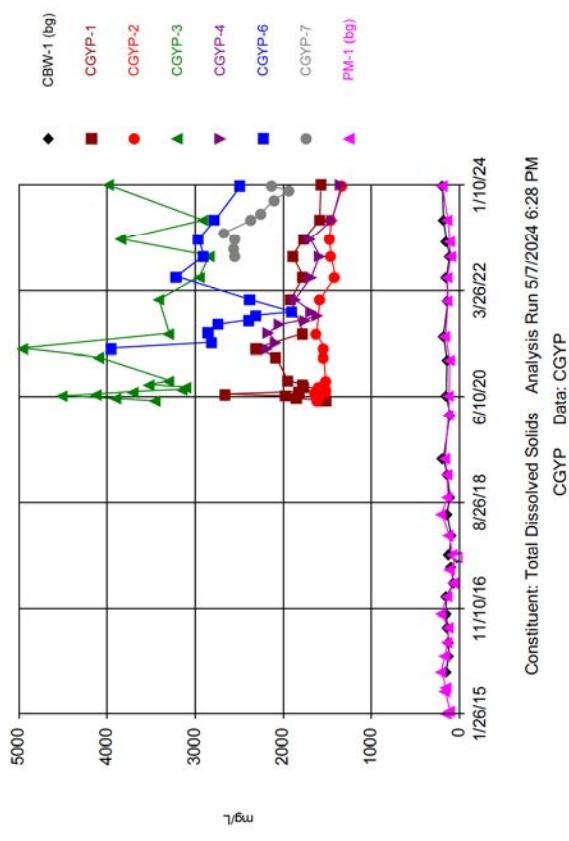
Time Series



Time Series



Time Series



Time Series

Constituent: Antimony (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.005							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		<0.005	<0.005	<0.005				
6/4/2020		<0.005	<0.005	<0.005				
6/18/2020		<0.005	<0.005	<0.005				
6/22/2020	<0.005							<0.005
7/1/2020		<0.005		<0.005				
7/2/2020			<0.005					
7/16/2020		<0.005	<0.005	<0.005				
7/30/2020		<0.005	<0.005	<0.005				
8/13/2020		<0.005	<0.005	<0.005				
8/27/2020		<0.005	<0.005	<0.005				
1/26/2021	<0.005							<0.005
2/10/2021		<0.005	<0.005	<0.005				
4/7/2021		<0.005	<0.005	<0.005	<0.005	<0.005		
5/13/2021					<0.005	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		<0.005	<0.005	<0.005				
7/8/2021					<0.005	<0.005		
8/31/2021						<0.005		
9/1/2021					<0.005			
9/27/2021					<0.005	<0.005		
10/26/2021					<0.005	<0.005		
11/17/2021					<0.005	<0.005		
1/24/2022	<0.005							<0.005
1/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
10/25/2022	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005
10/26/2022		<0.005					<0.005	
12/7/2022							<0.005	
1/24/2023	<0.005							<0.005
2/6/2023			<0.005	<0.005	<0.005			
2/7/2023			<0.005			<0.005	<0.005	
3/20/2023							<0.005	
6/5/2023								<0.005
6/6/2023	<0.005	<0.005						
6/7/2023			<0.005	<0.005	<0.005	<0.005	<0.005	
7/19/2023							<0.005	
10/10/2023							0.0058	
12/5/2023							<0.005	
1/4/2024			<0.005			0.0053	<0.005	

Time Series

Page 2

Constituent: Antimony (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/8/2024	<0.005							<0.005
1/10/2024		<0.005		<0.005	<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.016							0.0042
1/26/2016	0.0067							0.0035
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	0.00537							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
7/12/2017								<0.005
7/25/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
10/1/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		0.0171	0.029	0.0169				
6/4/2020		0.037	0.0167	0.0138				
6/18/2020		0.0406	0.0197	0.0215				
6/22/2020	<0.005							<0.005
7/1/2020		0.0407		0.0179				
7/2/2020			0.0191					
7/16/2020		0.0165	0.0217	0.017				
7/30/2020		0.014	0.0214	0.0171				
8/13/2020		0.0175	0.0214	0.0176				
8/27/2020		0.0278	0.0204	0.015				
1/26/2021	<0.005							<0.005
2/10/2021		0.0452	0.0184	0.022				
4/7/2021		0.0336	0.0169	0.0198	0.0103	<0.005		
5/13/2021					0.0105	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		0.0181	0.0194	0.0183				
7/8/2021					0.0113	<0.005		
8/31/2021						<0.005		
9/1/2021					0.0115			
9/27/2021					0.0118	<0.005		
10/26/2021					0.0104	<0.005		
11/17/2021					0.0112	<0.005		
1/24/2022	<0.005							<0.005
1/31/2022		0.0146	0.0165	0.0169	0.008	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.01	<0.003	<0.01	<0.01	<0.005		
10/25/2022	<0.005		<0.003	0.007	0.0041	<0.005		<0.005
10/26/2022		0.00472					0.006	
12/7/2022							0.0061	
1/24/2023	<0.005							0.00332
2/6/2023			0.00922	0.00795	0.00462			
2/7/2023			0.00956			<0.005	0.0142	
3/20/2023							0.0168	
6/5/2023								<0.005
6/6/2023	<0.005	0.00835						
6/7/2023			0.0131	0.0114	0.00514	<0.005	0.0221	
7/19/2023							0.0152	

Time Series

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Constituent: Arsenic (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/10/2023							0.0212	
12/5/2023							0.0206	
1/4/2024			0.0147			<0.005	0.0202	
1/8/2024	<0.005							<0.005
1/10/2024		0.0163		0.0153	0.0057			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.061							0.1
1/26/2016	0.044							0.087
4/19/2016	0.0438							0.0875
7/18/2016	0.0378							0.0868
10/11/2016	0.0473							0.077
1/23/2017	0.0421							0.0703
4/17/2017	0.0418							0.0802
7/12/2017								0.0803
7/25/2017	0.0421							
9/25/2017	0.044							0.0753
2/7/2018	0.0436							0.0756
6/20/2018	0.043							0.103
10/1/2018	0.0428							0.0769
2/12/2019	0.0427							0.0817
2/24/2020	0.0413							0.0725
5/21/2020		0.0899	0.024	0.0621				
6/4/2020		0.0447	0.0378	0.0582				
6/18/2020		0.0403	0.0445	0.0502				
6/22/2020	0.0433							0.0766
7/1/2020		0.0426		0.0547				
7/2/2020			0.0439					
7/16/2020		0.0574	0.0274	0.0444				
7/30/2020		0.0575	0.0316	0.0437				
8/13/2020		0.0517	0.0289	0.0431				
8/27/2020		0.0447	0.0407	0.0459				
1/26/2021	0.0466							0.0857
2/10/2021		0.0397	0.021	0.0405				
4/7/2021		0.0448	0.0145	0.0384	0.0454	0.326		
5/13/2021					0.0375	0.437		
6/21/2021	0.0423							0.0873
7/7/2021		0.0522	0.0178	0.0378				
7/8/2021					0.0395	0.585		
8/31/2021						0.564		
9/1/2021					0.0364			
9/27/2021					0.0371	0.705		
10/26/2021					0.0336	0.529		
11/17/2021					0.0333	0.865		
1/24/2022	0.0377							0.0826
1/31/2022		0.0301	0.0125	0.0246	0.025	0.258		
6/20/2022	0.033							0.076
6/21/2022		0.023	<0.01	0.017	0.019	0.29		
10/25/2022	0.0466		0.0183	0.0422	0.0306	0.465		0.0851
10/26/2022		0.0469					0.0281	
12/7/2022							0.0248	
1/24/2023	0.0425							0.0808
2/6/2023			0.0171	0.034	0.0286			
2/7/2023		0.0391				0.159	0.0283	
3/20/2023							0.0292	
6/5/2023								0.0766
6/6/2023	0.0388	0.0392						
6/7/2023			0.00976	0.0243	0.0255	0.204	0.0147	
7/19/2023							0.0271	

Time Series

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Constituent: Barium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/10/2023							0.0258	
12/5/2023							0.0256	
1/4/2024			0.0146			0.118	0.0203	
1/8/2024	0.0413							0.0778
1/10/2024		0.0509		0.0385	0.0264			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/7/2024 6:28 PM
 CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.00063							<0.0005
1/26/2016	<0.0005							<0.0005
4/19/2016	<0.0005							<0.0005
7/18/2016	<0.0005							<0.0005
10/11/2016	<0.0005							<0.0005
1/23/2017	<0.0005							<0.0005
4/17/2017	<0.0005							<0.0005
9/25/2017	<0.0005							<0.0005
2/7/2018	<0.0005							<0.0005
6/20/2018	<0.0005							<0.0005
10/1/2018	<0.0005							<0.0005
2/12/2019								<0.0005
5/20/2019	<0.0005							<0.0005
2/24/2020	<0.0005							<0.0005
5/21/2020		0.0058	0.0053	0.0283				
6/4/2020		0.0098	0.0034	0.0367				
6/18/2020		0.0109	0.0034	0.037				
6/22/2020	<0.0005							<0.0005
7/1/2020		0.011		0.0468				
7/2/2020			0.0044					
7/16/2020		0.0045	0.0034	0.0252				
7/30/2020		0.004	0.0035	0.022				
8/13/2020		0.0061	0.0036	0.022				
8/27/2020		0.009	0.0034	0.0318				
1/26/2021	<0.0005							<0.0005
2/10/2021		0.0127	0.0025	0.035				
4/7/2021		0.0103	0.0031	0.0465	0.0174	0.0277		
5/13/2021					0.0164	0.0239		
6/21/2021	<0.0005							<0.0005
7/7/2021		0.0061	0.0028	0.0269				
7/8/2021					0.0179	0.0212		
8/31/2021						0.0197		
9/1/2021					0.015			
9/27/2021					0.0156	0.0219		
10/26/2021					0.0152	0.0214		
11/17/2021					0.0149	0.0194		
1/24/2022	<0.0005							<0.0005
1/31/2022		0.0112	0.004	0.0339	0.0166	0.0237		
6/20/2022	<0.0005							<0.0005
6/21/2022		0.006	0.003	0.017	0.013	0.019		
10/25/2022	<0.0005			0.0043	0.0345	0.0188	0.027	
10/26/2022		0.0112						0.0117
12/7/2022								0.0116
1/24/2023	<0.0005							<0.0005
2/6/2023			0.00424	0.0497	0.0162			
2/7/2023		0.011				0.0313	0.0116	
3/20/2023							0.00944	
6/5/2023								<0.0005
6/6/2023	<0.0005	0.00398						
6/7/2023			0.00341	0.0221	0.0151	0.0279	0.00791	
7/19/2023							0.00982	
10/10/2023							0.0072	

Time Series

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Constituent: Beryllium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.006	
1/4/2024			0.0018			0.0255	0.0053	
1/8/2024	<0.0005							<0.0005
1/10/2024		0.0067		0.0309	0.0096			

Time Series

Constituent: Boron (mg/L) Analysis Run 5/7/2024 6:28 PM
 CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.032							0.0178
1/26/2016	0.0218							<0.015
4/19/2016	0.0183							<0.015
7/18/2016	0.0217							0.0163
10/11/2016	0.0302							0.0165
1/23/2017	0.0249							<0.015
4/17/2017	0.018							0.019
7/25/2017	0.022							
9/25/2017	0.024							0.018
10/9/2017	0.023							0.021
2/7/2018	0.018							<0.015
6/20/2018	0.02							0.016
10/1/2018	0.025							0.015
2/12/2019	<0.04							<0.015
2/24/2020	0.017							<0.015
5/21/2020		8.6	2	18				
6/4/2020		10	1.7	19				
6/18/2020		10	1.6	23				
6/22/2020	0.018							0.049
7/1/2020		12		23				
7/2/2020			1.6					
7/16/2020		8.3	1.9	19				
7/30/2020		8.3	2	17				
8/13/2020		9.1	2.1	17				
8/27/2020		11	1.9	18				
9/21/2020		10	1.7	18				
1/26/2021	0.018							<0.015
2/10/2021		14	0.96	25				
4/7/2021		11	0.85	23	7.6	7		
5/13/2021					8	6.9		
6/21/2021	<0.04							<0.015
7/7/2021		9.4	1.3	17				
7/8/2021					7.7	6.7		
8/31/2021						6.9		
9/1/2021					8			
9/27/2021					7.8	7.3		
10/26/2021					6.8	6.7		
11/17/2021					7.1	5.2		
1/24/2022	0.0139							0.011
1/31/2022		9.84	0.51	21.5	6.21	6.2		
6/20/2022	0.015							<0.015
6/21/2022		4.2	0.57	9.9	4.3	6.1		
10/25/2022	0.0203		1.14	16.6	6.13	5.71		0.0437
10/26/2022		12.6					11.8	
12/7/2022							11.5	
1/24/2023	0.0175							0.0114
2/6/2023			0.602	23.9	5.67			
2/7/2023		11.1				9.49	11.6	
3/20/2023							10.8	
6/5/2023								0.0184
6/6/2023	0.836	0.191						
6/7/2023			0.781	16.7	5.53	8.85	11.2	

Time Series

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Constituent: Boron (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
7/19/2023							9.81	
10/10/2023							10.1	
12/5/2023							10.1	
1/4/2024			0.727			8.33	10.3	
1/8/2024	0.0193							0.0142
1/10/2024		9.72		21.5		5.18		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.0005							<0.0005
1/26/2016	<0.0005							<0.0005
4/19/2016	<0.0005							<0.0005
7/18/2016	<0.0005							<0.0005
10/11/2016	<0.0005							<0.0005
1/23/2017	<0.0005							<0.0005
4/17/2017	<0.0005							<0.0005
7/12/2017								<0.0005
7/25/2017	<0.0005							
9/25/2017	<0.0005							<0.0005
2/7/2018	<0.0005							<0.0005
6/20/2018	<0.0005							<0.0005
2/12/2019	<0.0005							<0.0005
2/24/2020	<0.0005							<0.0005
5/21/2020		<0.0005	<0.0005	0.00062				
6/4/2020		<0.0005	<0.0005	0.0008				
6/18/2020		<0.0005	<0.0005	0.00074				
6/22/2020	<0.0005							<0.0005
7/1/2020		<0.0005		0.0009				
7/2/2020			<0.0005					
7/16/2020		<0.0005	<0.0005	0.00061				
7/30/2020		<0.0005	<0.0005	<0.0005				
8/13/2020		<0.0005	<0.0005	<0.0005				
8/27/2020		<0.0005	<0.0005	0.00076				
1/26/2021	<0.0005							<0.0005
2/10/2021		<0.0005	<0.0005	0.00078				
4/7/2021		<0.0005	<0.0005	0.00053	<0.0005	<0.0005		
5/13/2021					<0.0005	<0.0005		
6/21/2021	<0.0005							<0.0005
7/7/2021		<0.0005	<0.0005	<0.0005				
7/8/2021					<0.0005	<0.0005		
8/31/2021						<0.0005		
9/1/2021						<0.0005		
9/27/2021						<0.0005	<0.0005	
10/26/2021						<0.0005	<0.0005	
11/17/2021						<0.0005	<0.0005	
1/24/2022	<0.0005							<0.0005
1/31/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
6/20/2022	<0.0005							<0.0005
6/21/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
10/25/2022	<0.0005		0.0014	0.0019	0.0008	0.0006		<0.0005
10/26/2022		0.0022					0.0032	
12/7/2022							0.003	
1/24/2023	<0.0005							<0.0005
2/6/2023			0.001	0.0015	<0.0005			
2/7/2023		0.0013				<0.0005	0.0015	
3/20/2023							0.00079	
6/5/2023								<0.0005
6/6/2023	<0.0005	<0.0005						
6/7/2023			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
7/19/2023							0.00056	
10/10/2023							<0.0005	

Time Series

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Constituent: Cadmium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							<0.0005	
1/4/2024			<0.0005			<0.0005	<0.0005	
1/8/2024	<0.0005							<0.0005
1/10/2024		<0.0005		<0.0005	<0.0005			

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	27							26
1/26/2016	27							27
4/19/2016	29.4							23.3
7/18/2016	28.7							18.8
10/11/2016	22.7							16.4
1/23/2017	26.2							10.4
4/17/2017	25.6							12.5
7/12/2017								18.5
9/25/2017	21.9							15.4
10/9/2017	23							17
2/7/2018	24							14.7
6/20/2018	24							37
10/1/2018	22.7							16.6
2/12/2019	24.4							15.9
5/20/2019	42.2							16.4
2/24/2020	28.2							11
5/21/2020		204	311	564				
6/4/2020		290	298	658				
6/18/2020		289	299	737				
6/22/2020	28.4							13.5
7/1/2020		315		759				
7/2/2020			305					
7/16/2020		204	295	587				
7/30/2020		192	279	545				
8/13/2020		224	293	556				
8/27/2020		242	272	579				
9/21/2020		252	276	576				
1/26/2021	29.2							14.3
2/10/2021		353	298	729				
4/7/2021		276	273	700	348	480		
5/13/2021					360	468		
6/21/2021	29.9							17
7/7/2021		218	253	495				
7/8/2021					324	438		
8/31/2021						441		
9/1/2021					319			
9/27/2021					325	474		
10/26/2021					304	455		
11/17/2021					310	396		
1/24/2022	27.9							14.4
1/31/2022		229	226	563	254	362		
6/20/2022	29							6.2
6/21/2022		200	240	460	270	430		
10/25/2022	27.5		214	415	231	370		13.1
10/26/2022		193					320	
12/7/2022							303	
1/24/2023	29.3							12.6
2/6/2023			301	737	266			
2/7/2023		264				520	420	
3/20/2023							397	
6/5/2023								12.7
6/6/2023	33.9	181						

Time Series

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Constituent: Calcium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
6/7/2023			254	508	254	486	377	
7/19/2023							262	
10/10/2023							372	
12/5/2023							345	
1/4/2024			173			474	343	
1/8/2024	25							119
1/10/2024		257		665	221			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

Time Series

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Constituent: Chloride (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
6/6/2023	3.73	679						
6/7/2023			55.9	872	353	1070	683	
7/19/2023							648	
10/10/2023							575	
12/5/2023							638	
1/4/2024			59.3			1150	802	
1/8/2024	3.48							12.8
1/10/2024		733		1150	334			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/7/2024 6:28 PM
 CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.014							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
7/12/2017								<0.005
7/25/2017	<0.005							
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		<0.005	<0.005	0.0058				
6/4/2020		<0.005	<0.005	0.0067				
6/18/2020		<0.005	<0.005	0.0063				
6/22/2020	<0.005							<0.005
7/1/2020		<0.005		0.0052				
7/2/2020			<0.005					
7/16/2020		<0.005	<0.005	0.0053				
7/30/2020		<0.005	<0.005	0.0055				
8/13/2020		<0.005	<0.005	0.0056				
8/27/2020		<0.005	<0.005	0.0059				
1/26/2021	<0.005							<0.005
2/10/2021		<0.005	<0.005	<0.005				
4/7/2021		<0.005	<0.005	0.0061	<0.005	<0.005		
5/13/2021					<0.005	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		<0.005	<0.005	0.0079				
7/8/2021					<0.005	<0.005		
8/31/2021						<0.005		
9/1/2021					<0.005			
9/27/2021					<0.005	<0.005		
10/26/2021					<0.005	<0.005		
11/17/2021					<0.005	<0.005		
1/24/2022	<0.005							
1/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
10/25/2022	<0.005		<0.005	0.009	<0.005	<0.005		<0.005
10/26/2022		<0.005						<0.005
12/7/2022								<0.005
1/24/2023	<0.005							<0.005
2/6/2023			<0.005	0.0073	<0.005			
2/7/2023		<0.005				<0.005	<0.005	
3/20/2023							<0.005	
6/5/2023								<0.005
6/6/2023	<0.005	<0.005						
6/7/2023			<0.005	0.008	<0.005	<0.005	<0.005	
7/19/2023							<0.005	
10/10/2023							<0.005	

Time Series

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Constituent: Chromium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							<0.005	
1/4/2024			<0.005			0.0061	<0.005	
1/8/2024	<0.005							<0.005
1/10/2024		<0.005		0.0056	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.0034							0.001
1/26/2016	0.0013							0.0009
4/19/2016	0.00116							0.00079
7/18/2016	0.00115							0.00085
10/11/2016	0.00109							0.000851
1/23/2017	0.001							0.00093
4/17/2017	0.0011							0.00098
9/25/2017	0.00086							0.00091
2/7/2018	0.00088							0.00089
6/20/2018	0.001							0.001
10/1/2018	0.00076							0.00084
2/12/2019	0.00084							0.00091
5/20/2019	0.00079							0.00091
2/24/2020	0.00082							0.001
5/21/2020		0.0448	0.0506	0.115				
6/4/2020		0.0479	0.0199	0.13				
6/18/2020		0.0492	0.0229	0.152				
6/22/2020	0.0008							0.001
7/1/2020		0.0548		0.154				
7/2/2020			0.025					
7/16/2020		0.0353	0.027	0.113				
7/30/2020		0.032	0.028	0.0966				
8/13/2020		0.0371	0.0294	0.0936				
8/27/2020		0.0467	0.0244	0.117				
1/26/2021	0.00066							0.001
2/10/2021		0.0587	0.019	0.151				
4/7/2021		0.0536	0.0183	0.143	0.0532	0.163		
5/13/2021					0.0498	0.149		
6/21/2021	0.0007							0.00094
7/7/2021		0.0362	0.0206	0.0967				
7/8/2021					0.0494	0.147		
8/31/2021						0.15		
9/1/2021					0.0487			
9/27/2021					0.0478	0.157		
10/26/2021					0.0463	0.158		
11/17/2021					0.0461	0.128		
1/24/2022	0.00073							<0.005
1/31/2022		0.00931	0.00644	0.0504	0.0168	0.114		
6/20/2022	<0.001							0.001
6/21/2022		0.033	0.018	0.055	0.033	0.117		
10/25/2022	0.00063		0.0215	0.0956	0.0415	0.156		0.00189
10/26/2022		0.0523					0.0797	
12/7/2022							0.0752	
1/24/2023	0.00076							0.00136
2/6/2023			0.0227	0.141	0.0399			
2/7/2023		0.048				0.198	0.107	
3/20/2023							0.0994	
6/5/2023								0.00119
6/6/2023	0.000814	0.0315						
6/7/2023			0.0224	0.0311	0.0199	0.138	0.0178	
7/19/2023							0.0615	
10/10/2023							0.0604	

Time Series

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Constituent: Cobalt (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.0535	
1/4/2024			0.0194			0.16	0.0526	
1/8/2024	0.00087							0.0016
1/10/2024		0.0404		0.122	0.0289			

Time Series

Constituent: Combined Radium 226 & 228 (pci/l) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<4							4.59
1/26/2016	<4							4.31
4/19/2016	5.31							<4
7/18/2016	<4							<4
10/11/2016	4.43							4.49
1/23/2017	6.34							<4
4/17/2017	<4							<4
9/25/2017	<4							<4
2/7/2018	<4							<4
6/20/2018	<4							7.09
10/1/2018	5.11							16.3
2/12/2019	0.346							0.585
2/24/2020	2.06							0.538
5/21/2020		3.97	1.34	5.59				
6/4/2020		3.96	2.14	4.18				
6/18/2020		3.79	2.61	5.24				
6/22/2020	1.14							1.38
7/1/2020		5.58		3.26				
7/2/2020			2.13					
7/16/2020		3.65	2.46	5.25				
7/30/2020		2.93	2.15	7.74				
8/13/2020		3.07	1.91	5.99				
8/27/2020		2.64	1.3	5.2				
1/26/2021	1.73							3.44
2/10/2021		3.86	2.83	4.69				
4/7/2021		3.89	4.18	7.93	6.37	3.68		
5/13/2021					5.84	6.31		
6/21/2021	0.552							2.1
7/7/2021		2.77	2.5	5.03				
7/8/2021					3.56	6.08		
8/31/2021						5.53		
9/1/2021					4.64			
9/27/2021					5.29	7.93		
10/26/2021					5.56	6.48		
11/17/2021					4.9	9.69		
1/24/2022	2.44							2.69
1/31/2022		6.81	3.4	6.17	4.85	3.44		
6/20/2022	1.98							1.59
6/21/2022		4.28	2.39	5.36	3.24	4.3		
10/25/2022	2.51		5.12	6.68	3.77	6.17		2.9
10/26/2022		3.53						6.04
12/7/2022								5.82
1/24/2023	1.66							2.63
2/6/2023			2.52	4.18	1.81			
2/7/2023		3.13				2.08	5.27	
3/20/2023							7.77	
6/5/2023								3.7
6/6/2023	5.08	3.94						
6/7/2023			1.77	5.33	1.67	5.69	6.6	
7/19/2023								3.55
10/10/2023								3.58
12/5/2023								5.52

Time Series

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Constituent: Combined Radium 226 & 228 (pci/l) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/4/2024				2.827		1.282	5.704	
1/8/2024		1.498						1.852
1/10/2024		4.66		3.349	4.06			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.25							<0.1
1/26/2016	0.3							<0.1
4/19/2016	0.29							<0.1
7/18/2016	0.27							<0.1
10/11/2016	0.28							<0.1
1/23/2017	0.25							<0.1
4/17/2017	0.22							<0.1
9/25/2017	0.23							<0.1
10/9/2017	0.22							<0.1
2/7/2018	0.19							<0.1
6/20/2018	0.2							<0.1
10/1/2018	0.19							<0.1
2/12/2019	0.18							<0.1
2/24/2020	0.19							<0.1
5/21/2020		0.58	0.75	0.65				
6/4/2020		0.96	0.75	2.89				
6/18/2020		1.05	0.62	2.82				
6/22/2020	0.2							<0.1
7/1/2020		0.69		0.73				
7/2/2020			<0.1					
7/16/2020		0.72	1.55	2.41				
7/30/2020		0.91	<0.1	<0.1				
8/13/2020		1.04	0.71	1				
8/27/2020		1.02	0.54	4.57				
9/21/2020		1.29	1.23	1.77				
1/26/2021	0.15							<0.1
2/10/2021		1.69	1.3	6.22				
4/7/2021		1.31	1.08	3.32	3.19	1.1		
5/13/2021					2.82	0.84		
6/21/2021	0.19							<0.1
7/7/2021		0.97	0.87	1.88				
7/8/2021					1.85	0.99		
8/31/2021						0.75		
9/1/2021					1.79			
9/27/2021					1.63	0.98		
10/26/2021					0.83	0.42		
11/17/2021					1.53	0.58		
1/24/2022	0.22							<0.1
1/31/2022		0.9	0.28	0.81	0.67	0.36		
6/20/2022	0.18							<0.1
6/21/2022		0.91	0.93	1.94	1.56	0.93		
10/25/2022	<0.1		0.42	1.06	0.99	0.49		<0.1
10/26/2022		0.53					0.66	
12/7/2022							<0.1	
1/24/2023	0.15							<0.1
2/6/2023			1.12	3.08	1.58			
2/7/2023		1.28				0.89	1.61	
3/20/2023							1.06	
6/5/2023								<0.1
6/6/2023	0.23	0.89					0.91	
6/7/2023			0.53	1.6	1.16	0.68		
7/19/2023							0.44	

Time Series

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Constituent: Fluoride (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/10/2023							1.7	
12/5/2023							0.96	
1/4/2024			0.92			1.08	1.01	
1/8/2024	0.14							<0.1
1/10/2024		0.84		0.98	1.17			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.011							<0.001
1/26/2016	0.0036							<0.001
4/19/2016	0.0028							<0.001
7/18/2016	0.00318							<0.001
10/11/2016	0.00375							<0.001
1/23/2017	0.0031							<0.001
4/17/2017	0.0028							<0.001
7/25/2017	0.0032							
9/25/2017	0.0032							<0.001
2/7/2018	0.0027							<0.001
6/20/2018	0.003							<0.001
10/1/2018	0.0031							<0.001
2/12/2019	0.0025							<0.001
2/24/2020	0.0027							<0.001
5/21/2020		0.035	0.02	0.0279				
6/4/2020		0.0191	0.0238	0.019				
6/18/2020		0.0201	0.0247	0.0236				
6/22/2020	0.0026							<0.001
7/1/2020		0.0202		0.0236				
7/2/2020			0.026					
7/16/2020		0.0116	0.0235	0.0269				
7/30/2020		0.005	0.0244	0.0295				
8/13/2020		0.0093	0.0247	0.0355				
8/27/2020		0.0087	0.0268	0.0193				
1/26/2021	0.0025							<0.001
2/10/2021		0.0165	0.0196	0.092 (o)				
4/7/2021		0.008	0.0175	0.0248	0.0113	0.013		
5/13/2021					0.0122	0.0127		
6/21/2021	0.0026							<0.001
7/7/2021		0.0097	0.0208	0.0297				
7/8/2021					0.0126	0.0131		
8/31/2021						0.0136		
9/1/2021					0.0146			
9/27/2021					0.0147	0.0137		
10/26/2021					0.0145	0.0158		
11/17/2021					0.0147	0.0068		
1/24/2022	0.0027							<0.001
1/31/2022		0.0056	0.019	0.0244	0.0113	0.0105		
6/20/2022	<0.01							<0.001
6/21/2022		<0.01	<0.01	0.011	<0.01	<0.01		
10/25/2022	0.0032		0.0251	0.0298	0.0134	0.0028		<0.001
10/26/2022		0.0089					0.0551	
12/7/2022							0.0473	
1/24/2023	0.00259							<0.001
2/6/2023			0.0234	0.0328	0.00927			
2/7/2023		0.00625				0.0118	0.0378	
3/20/2023							0.0361	
6/5/2023								<0.001
6/6/2023	0.00255	0.00144						
6/7/2023			0.0166	0.0181	0.00896	0.0132	0.0234	
7/19/2023							0.037	
10/10/2023							0.0404	

Time Series

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Constituent: Lead (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.0363	
1/4/2024			0.0176			0.0074	0.0331	
1/8/2024	0.0024							<0.001
1/10/2024		0.0021		0.0281	0.0091			

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.005							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
10/1/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
5/20/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		0.015	0.015	0.069				
6/4/2020		0.027	<0.005	0.09				
6/18/2020		0.028	0.015	0.11				
6/22/2020	<0.005							<0.005
7/1/2020		<0.01		0.11				
7/2/2020			0.015					
7/16/2020		0.01	<0.005	0.071				
7/30/2020		<0.01	0.014	0.06				
8/13/2020		<0.01	<0.005	0.063				
8/27/2020		0.023	0.016	0.093				
1/26/2021	<0.005							<0.005
2/10/2021		0.024	0.013	0.11				
4/7/2021		0.02	0.014	0.094	0.058	0.14		
5/13/2021					0.058	0.13		
6/21/2021	<0.005							<0.005
7/7/2021		0.014	0.015	0.056				
7/8/2021					0.058	0.12		
8/31/2021						0.13		
9/1/2021					0.064			
9/27/2021					0.067	0.15		
10/26/2021					0.053	0.11		
11/17/2021					0.052	0.11		
1/24/2022	0.00066							0.0037
1/31/2022		0.0183	0.0109	0.1	0.0642	0.128		
6/20/2022	<0.005							<0.005
6/21/2022		<0.01	<0.005	0.029	0.039	0.1		
10/25/2022	<0.005		<0.005	0.0517	0.0712	0.148		0.00544
10/26/2022		0.00893					0.00785	
12/7/2022							<0.05	
1/24/2023	<0.005							<0.005
2/6/2023			0.0142	0.0143	0.0687			
2/7/2023		0.0247				0.198	0.0116	
3/20/2023							<0.05	
6/5/2023								<0.005
6/6/2023	<0.005	0.00779						
6/7/2023			0.0139	0.0701	0.0766	0.181	0.0115	
7/19/2023							0.0151	
10/10/2023							0.0135	

Time Series

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Constituent: Lithium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.00732	
1/4/2024			0.00952			0.172	0.01	
1/8/2024	<0.005							0.00526
1/10/2024		0.0182		0.113	0.0449			

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.0002							<0.0002
1/26/2016	<0.0002							<0.0002
4/19/2016	<0.0002							<0.0002
7/18/2016	<0.0002							<0.0002
10/11/2016	<0.0002							<0.0002
1/23/2017	<0.0002							<0.0002
4/17/2017	<0.0002							<0.0002
9/25/2017	<0.0002							<0.0002
2/7/2018	<0.0002							<0.0002
6/20/2018	<0.0002							<0.0002
10/1/2018	<0.0002							<0.0002
2/12/2019	<0.0002							<0.0002
2/24/2020	<0.0002							<0.0002
5/21/2020		<0.0002	<0.0002	<0.0002				
6/4/2020		<0.0002	<0.0002	<0.0002				
6/18/2020		<0.0002	<0.0002	0.00047				
6/22/2020	<0.0002							<0.0002
7/1/2020		0.0002		0.00023				
7/2/2020			<0.0002					
7/16/2020		<0.0002	<0.0002	<0.0002				
7/30/2020		<0.0002	<0.0002	<0.0002				
8/13/2020		<0.0002	<0.0002	<0.0002				
8/27/2020		<0.0002	<0.0002	<0.0002				
1/26/2021	<0.0002							<0.0002
2/10/2021		<0.0002	<0.0002	<0.0002				
4/7/2021		<0.0002	<0.0002	0.00021	<0.0002	<0.0002		
5/13/2021					<0.0002	<0.0002		
6/21/2021	<0.0002							<0.0002
7/7/2021		<0.0002	<0.0002	<0.0002				
7/8/2021					<0.0002	<0.0002		
8/31/2021						<0.0002		
9/1/2021						<0.0002		
9/27/2021						<0.0002	<0.0002	
10/26/2021						<0.0002	<0.0002	
11/17/2021						<0.0002	<0.0002	
1/24/2022	<0.0002							<0.0002
1/31/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
6/20/2022	<0.0002							<0.0002
6/21/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/25/2022	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/26/2022		<0.0002						<0.0002
12/7/2022								<0.0002
1/24/2023	<0.0002							<0.0002
2/6/2023			<0.0002	<0.0002	<0.0002			
2/7/2023			<0.0002			<0.0002	<0.0002	
3/20/2023							<0.0002	
6/5/2023								<0.0002
6/6/2023	<0.0002	<0.0002						
6/7/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/19/2023								<0.0002
10/10/2023								<0.0002
12/5/2023								<0.0002

Time Series

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Constituent: Mercury (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/4/2024			<0.0002			<0.0002	<0.0002	
1/8/2024	<0.0002							<0.0002
1/10/2024		<0.0002		<0.0002	<0.0002			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.005							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		<0.005	<0.005	<0.005				
6/4/2020		<0.005	<0.005	<0.005				
6/18/2020		<0.005	<0.005	<0.005				
6/22/2020	<0.005							<0.005
7/1/2020		<0.005		<0.005				
7/2/2020			<0.005					
7/16/2020		<0.005	<0.005	<0.005				
7/30/2020		<0.005	<0.005	<0.005				
8/13/2020		<0.005	<0.005	<0.005				
8/27/2020		<0.005	<0.005	<0.005				
1/26/2021	<0.005							<0.005
2/10/2021		<0.005	<0.005	<0.005				
4/7/2021		<0.005	<0.005	<0.005	<0.005	<0.005		
5/13/2021					<0.005	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		<0.005	<0.005	<0.005				
7/8/2021					<0.005	<0.005		
8/31/2021						<0.005		
9/1/2021					<0.005			
9/27/2021					<0.005	<0.005		
10/26/2021					<0.005	<0.005		
11/17/2021					<0.005	<0.005		
1/24/2022	<0.005							<0.005
1/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
10/25/2022	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005
10/26/2022		<0.005					<0.005	
12/7/2022							<0.005	
1/24/2023	<0.005							<0.005
2/6/2023			<0.005	<0.005	<0.005			
2/7/2023			<0.005			<0.005	<0.005	
3/20/2023							<0.005	
6/5/2023								<0.005
6/6/2023	<0.005	<0.005						
6/7/2023			<0.005	<0.005	<0.005	<0.005	<0.005	
7/19/2023							<0.005	
10/10/2023							<0.005	
12/5/2023							<0.005	
1/4/2024			<0.005			<0.005	<0.005	

Time Series

Page 2

Constituent: Molybdenum (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/8/2024	<0.005							<0.005
1/10/2024		<0.005		<0.005	<0.005			

Time Series

Constituent: pH, Field (pH units) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/26/2015								4.53
2/16/2015								4.68
6/16/2015								4.74
7/6/2015								5.25
10/19/2015	4.45							5.47
1/26/2016	4.12							5.2
4/19/2016	4.33							5.32
7/18/2016	4.38							5.2
10/11/2016	4.14							5.01
1/23/2017	4.32							5.01
4/17/2017	4.26							5.19
7/12/2017								5.11
7/25/2017	4.21							
9/25/2017	4.32							5.27
10/9/2017	4.25							5.21
2/7/2018	4.42							5.29
6/20/2018	4.32							5.58
10/1/2018	4.09							5.08
2/12/2019	4.5							5.47
5/20/2019	4.5							5.26
2/24/2020	4.09							4.92
5/21/2020		3.58	3.82	3.66				
6/4/2020		3.98	3.86	3.99				
6/18/2020		3.89	3.69	3.63				
6/22/2020	4.48							5.12
7/1/2020		4.06		3.96				
7/2/2020			3.79					
7/16/2020		4.48	4.06	3.93				
7/30/2020		4.22	3.72	3.63				
8/13/2020		3.92	3.59	3.4				
8/27/2020		3.98	3.81	3.81				
9/21/2020		4.11	3.79	3.77				
1/26/2021	4.31							5.03
2/10/2021		3.8	3.77	3.5				
4/7/2021		4.1	4.02	3.73	3.78	3.68		
5/13/2021					3.88	3.7		
6/21/2021	4.25							5.21
7/7/2021		4.19	3.8	3.56				
7/8/2021					3.65	3.54		
8/31/2021						3.67		
9/1/2021					3.65			
9/27/2021					3.65	3.62		
10/26/2021					3.66	3.54		
11/17/2021					3.54	3.66		
1/24/2022	4.26							5.19
1/31/2022		4.21	3.96	3.84	3.9	3.93		
6/20/2022	4.45							4.84
6/21/2022		4.28	4.01	3.87	3.89	3.82		
10/25/2022	4.31		3.8	3.56	3.69	3.56		5.01
10/26/2022		4.01					3.69	
12/7/2022							3.85	
1/24/2023	4.23							4.84

Time Series

Page 2

Constituent: pH, Field (pH units) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
2/6/2023			4.01	3.77	4.01			
2/7/2023		4.38				3.8	3.82	
3/20/2023							3.72	
6/5/2023								5.08
6/6/2023	4.34	4.66						
6/7/2023			4	3.67	4.13	3.74	3.92	
7/19/2023							3.83	
10/10/2023							3.63	
12/5/2023							3.9	
1/4/2024			3.83			3.7	3.77	
1/8/2024	4.44							5.13
1/10/2024		4.39		4.01	3.81			

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.01							<0.01
1/26/2016	<0.01							<0.01
4/19/2016	<0.01							<0.01
7/18/2016	<0.01							<0.01
10/11/2016	<0.01							<0.01
1/23/2017	<0.01							<0.01
4/17/2017	<0.01							<0.01
7/25/2017	<0.01							<0.01
9/25/2017	<0.01							<0.01
2/7/2018	<0.01							<0.01
6/20/2018	<0.01							<0.01
10/1/2018	<0.01							<0.01
2/12/2019	<0.01							<0.01
2/24/2020	<0.01							<0.01
5/21/2020		<0.01	0.0113	<0.01				
6/4/2020		0.0166	0.0078	0.0067				
6/18/2020		0.0143	<0.01	<0.01				
6/22/2020	<0.01							<0.01
7/1/2020		0.0177		<0.01				
7/2/2020			<0.01					
7/16/2020		<0.01	<0.01	<0.01				
7/30/2020		<0.01	<0.01	<0.01				
8/13/2020		<0.01	<0.01	<0.01				
8/27/2020		<0.01	<0.01	<0.01				
1/26/2021	<0.01							<0.01
2/10/2021		0.0163	<0.01	<0.01				
4/7/2021		<0.01	<0.01	<0.01	<0.01	<0.01		
5/13/2021					<0.01	<0.01		
6/21/2021	<0.01							<0.01
7/7/2021		<0.01	<0.01	<0.01				
7/8/2021					<0.01	<0.01		
8/31/2021						<0.01		
9/1/2021						<0.01		
9/27/2021						<0.01	<0.01	
10/26/2021						<0.01	<0.01	
11/17/2021						<0.01	<0.01	
1/24/2022	<0.01							<0.01
1/31/2022		0.018	0.014	0.014	<0.01	<0.01		
6/20/2022	<0.01							<0.01
6/21/2022		<0.01	<0.01	<0.01	<0.01	<0.01		
10/25/2022	<0.01		0.027	0.019	0.00856	<0.01		<0.01
10/26/2022		0.026					0.046	
12/7/2022							0.0558	
1/24/2023	<0.01							<0.01
2/6/2023			<0.01	<0.01	<0.01			
2/7/2023		<0.01				<0.01	0.002	
3/20/2023							<0.01	
6/5/2023								<0.01
6/6/2023	<0.01	<0.01						
6/7/2023			<0.01	<0.01	<0.01	<0.01	<0.01	
7/19/2023							<0.01	
10/10/2023							<0.01	

Time Series

Page 2

Constituent: Selenium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							<0.01	
1/4/2024			<0.01			<0.01	<0.01	
1/8/2024	<0.01							<0.01
1/10/2024		<0.01		<0.01	<0.01			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

Time Series

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Constituent: Sulfate (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
6/6/2023	97.1	282						
6/7/2023			904	964	538	129	813	
7/19/2023							810	
10/10/2023							789	
12/5/2023							782	
1/4/2024			1130			161	684	
1/8/2024	83.6							7.62
1/10/2024		384		889	502			

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.001							<0.001
1/26/2016	<0.001							<0.001
4/19/2016	<0.001							<0.001
7/18/2016	<0.001							<0.001
10/11/2016	<0.001							<0.001
1/23/2017	<0.001							<0.001
4/17/2017	<0.001							<0.001
9/25/2017	<0.001							<0.001
2/7/2018	<0.001							<0.001
6/20/2018	<0.001							<0.001
2/12/2019	<0.001							<0.001
2/24/2020	<0.001							<0.001
5/21/2020		<0.001	<0.001	<0.001				
6/4/2020		<0.001	<0.001	<0.001				
6/18/2020		<0.001	<0.001	<0.001				
6/22/2020	<0.001							<0.001
7/1/2020		<0.001		<0.001				
7/2/2020			<0.001					
7/16/2020		<0.001	<0.001	<0.001				
7/30/2020		<0.001	<0.001	<0.001				
8/13/2020		<0.001	<0.001	<0.001				
8/27/2020		<0.001	<0.001	<0.001				
1/26/2021	<0.001							<0.001
2/10/2021		<0.001	<0.001	<0.001				
4/7/2021		<0.001	<0.001	<0.001	<0.001	<0.001		
5/13/2021					<0.001	<0.001		
6/21/2021	<0.001							<0.001
7/7/2021		<0.001	<0.001	<0.001				
7/8/2021					<0.001	<0.001		
8/31/2021						<0.001		
9/1/2021					<0.001			
9/27/2021					<0.001	<0.001		
10/26/2021					<0.001	<0.001		
11/17/2021					<0.001	<0.001		
1/24/2022	<0.001							<0.001
1/31/2022		<0.001	<0.001	<0.001	<0.001	<0.001		
6/20/2022	<0.001							<0.001
6/21/2022		<0.001	<0.001	<0.001	<0.001	<0.001		
10/25/2022	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001
10/26/2022		<0.001					<0.001	
12/7/2022							<0.001	
1/24/2023	<0.001							<0.001
2/6/2023			<0.001	<0.001	<0.001			
2/7/2023		<0.001				<0.001	<0.001	
3/20/2023							<0.001	
6/5/2023								<0.001
6/6/2023	<0.001	<0.001						
6/7/2023			<0.001	<0.001	<0.001	<0.001	<0.001	
7/19/2023							<0.001	
10/10/2023							<0.001	
12/5/2023							<0.001	
1/4/2024			<0.001			<0.001	<0.001	

Time Series

Page 2

Constituent: Thallium (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/8/2024	<0.001							<0.001
1/10/2024		<0.001		<0.001		<0.001		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/26/2015								142.5
2/16/2015								106.2
6/16/2015								158
7/6/2015								151
10/19/2015	150							206
1/26/2016	120							165
4/19/2016	120							130
7/18/2016	132							124
10/11/2016	151.7							200
1/23/2017	148							138
4/17/2017	62							56
7/12/2017								108
7/25/2017	92							
9/25/2017	<40							<40
10/9/2017	115							80
2/7/2018	92							112
6/20/2018	138.8							200
10/1/2018	107.5							130
2/12/2019	135							136.2
5/20/2019	181.2							162.5
2/24/2020	107.5							120
5/21/2020		1505	1609	3449				
6/4/2020		1839	1589	3895				
6/18/2020		1964	1624	4502				
6/22/2020	147.5							112.5
7/1/2020		2650		4120				
7/2/2020			1634					
7/16/2020		1811	1512	3700				
7/30/2020		1541	1515	3138				
8/13/2020		1768	1599	3102				
8/27/2020		1772	1526	3519				
9/21/2020		1945	1515	3288				
1/26/2021	138.8							110
2/10/2021		2081	1538	4090				
4/7/2021		2301	1536	4958	2173	3952		
5/13/2021					2078	2804		
6/21/2021	178.8							155
7/7/2021		1770	1618	3291				
7/8/2021					2168	2851		
8/31/2021						2740		
9/1/2021					2038			
9/27/2021					1749	2382		
10/26/2021					1614	2306		
11/17/2021					1676	1899		
1/24/2022	130							128.8
1/31/2022		1912	1582	3410	1864	2379		
6/20/2022	143.8							137.5
6/21/2022		1771	1408	2952	1676	3210		
10/25/2022	110		1454	2835	1585	2902		96.25
10/26/2022		1894					2545	
12/7/2022							2554	
1/24/2023	142.5							111.2

Time Series

Page 2

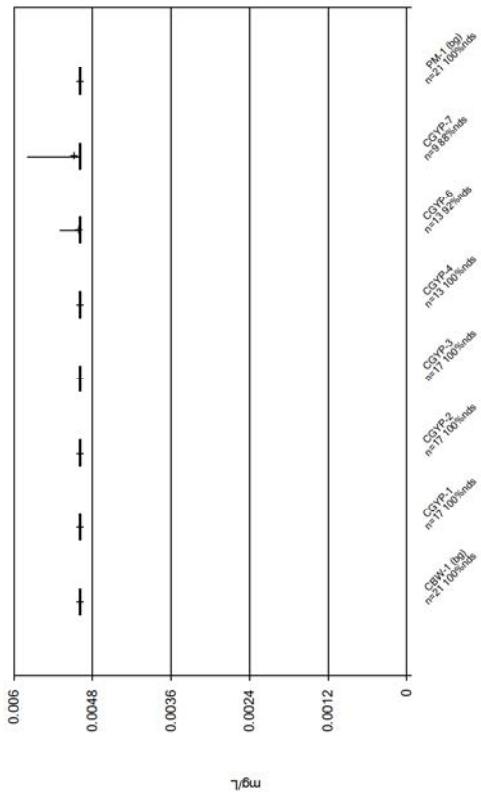
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/7/2024 6:28 PM

CGYP Data: CGYP

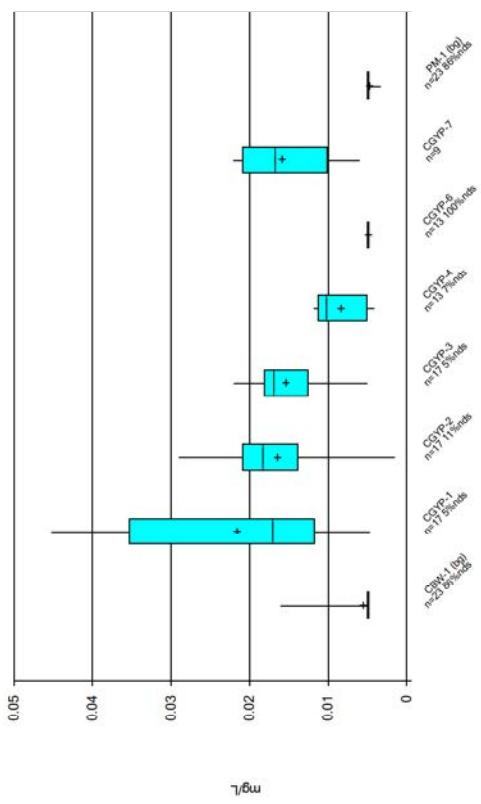
	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
2/6/2023			1474	3838	1689			
2/7/2023		1764				2959	2546	
3/20/2023							2665	
6/5/2023								130
6/6/2023	178.8	1584						
6/7/2023			1451	2906	1445	2774	2355	
7/19/2023							2252	
10/10/2023							2101	
12/5/2023							1935	
1/4/2024			1328			2484	2120	
1/8/2024	188.8							193.8
1/10/2024		1570		3978	1339			

FIGURE B.

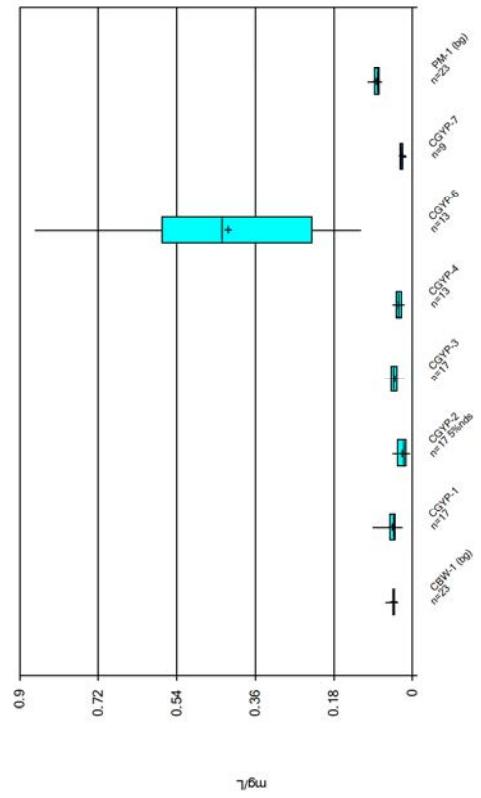
Box & Whiskers Plot



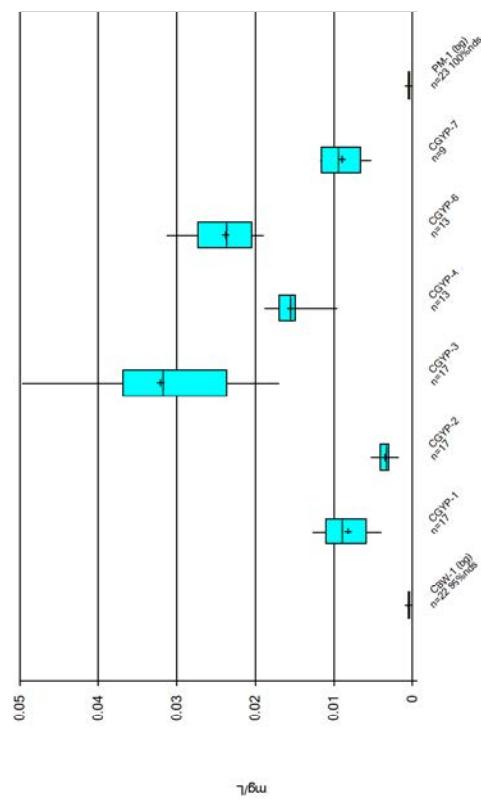
Box & Whiskers Plot



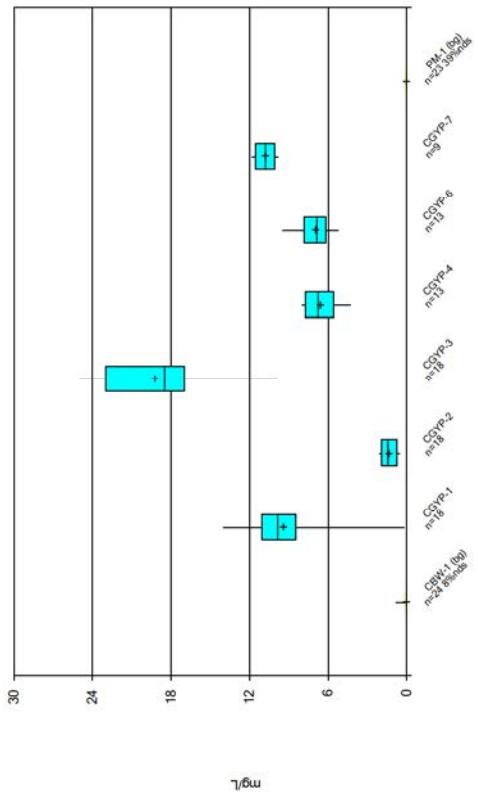
Box & Whiskers Plot



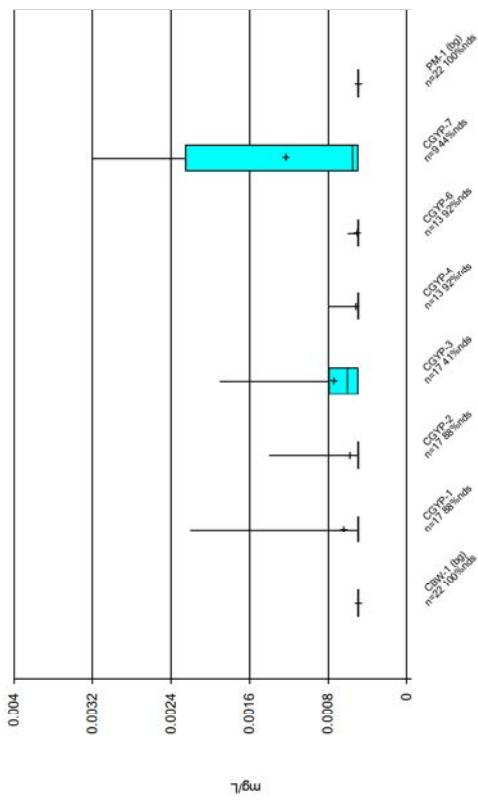
Box & Whiskers Plot



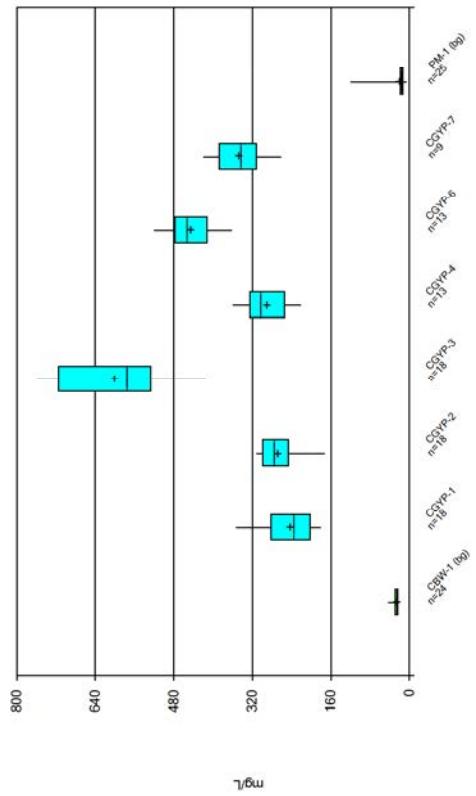
Box & Whiskers Plot



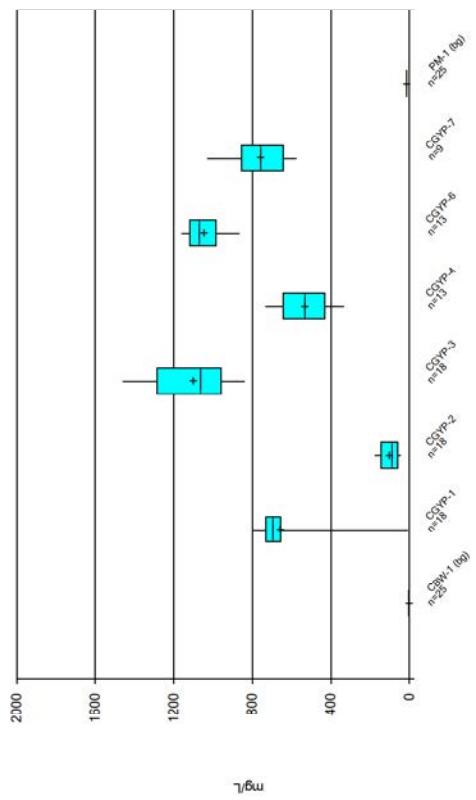
Box & Whiskers Plot



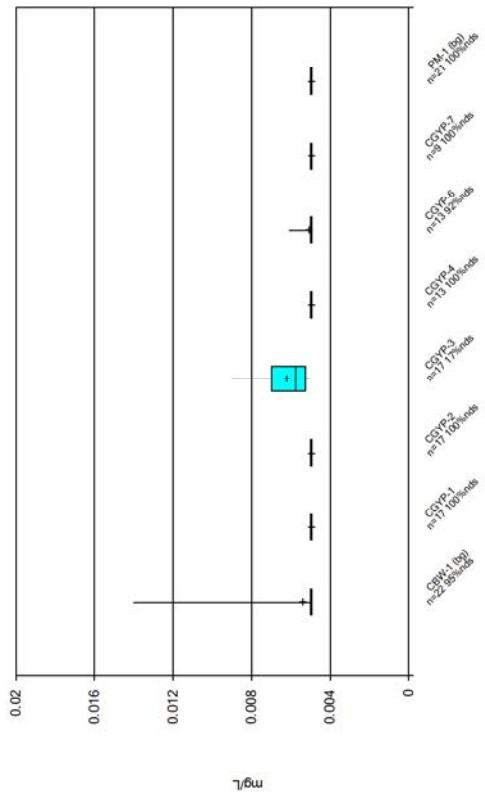
Box & Whiskers Plot



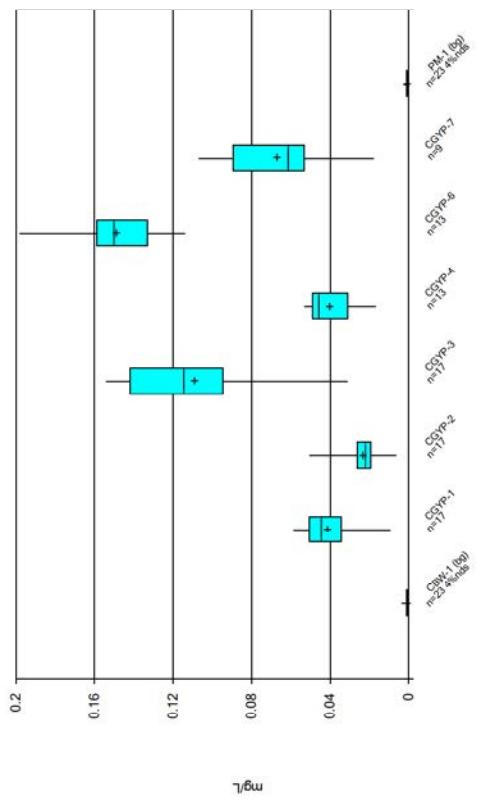
Box & Whiskers Plot



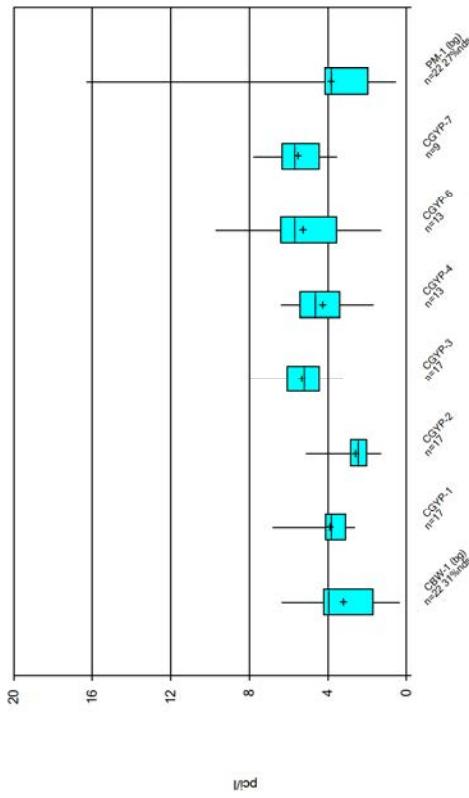
Box & Whiskers Plot



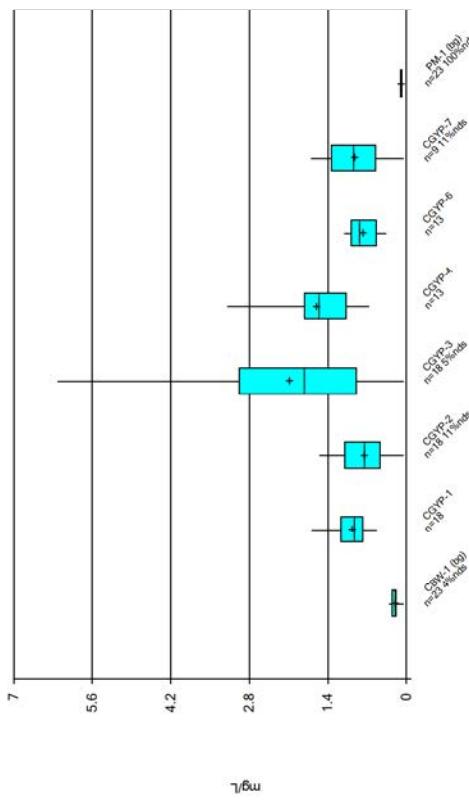
Box & Whiskers Plot



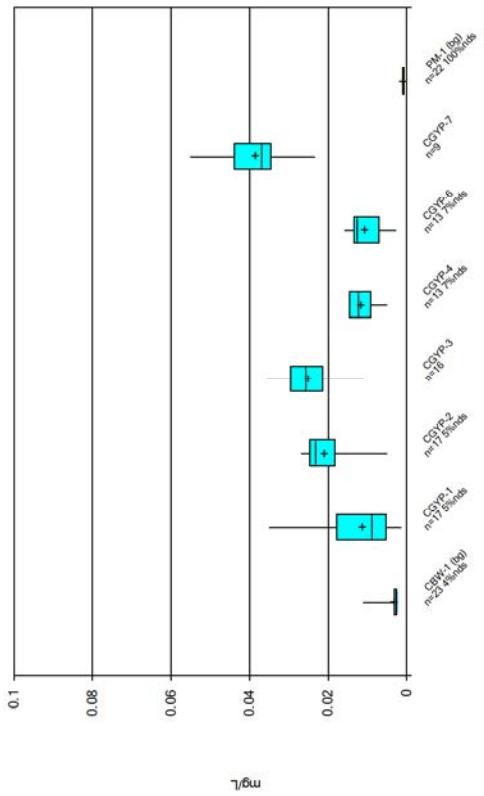
Box & Whiskers Plot



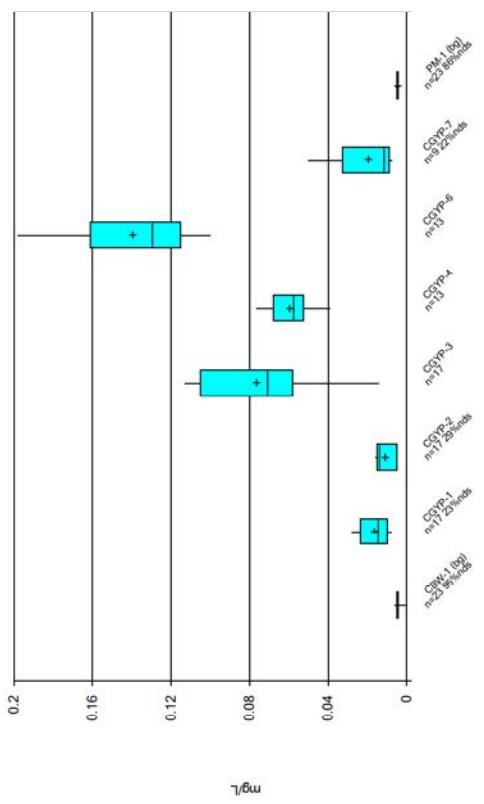
Box & Whiskers Plot



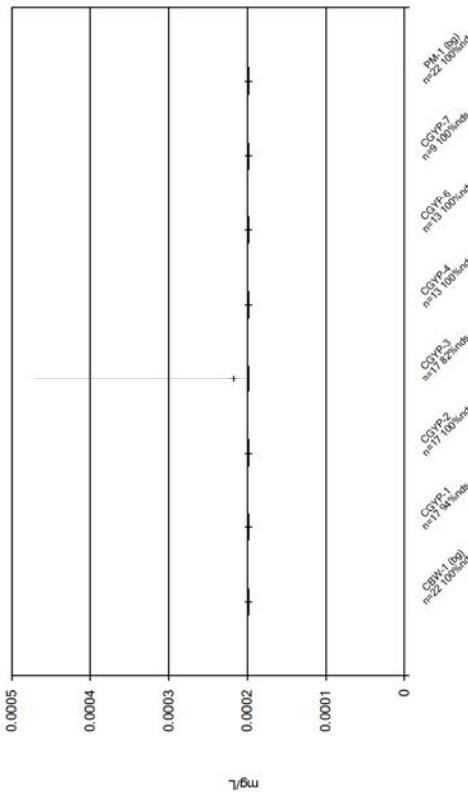
Box & Whiskers Plot



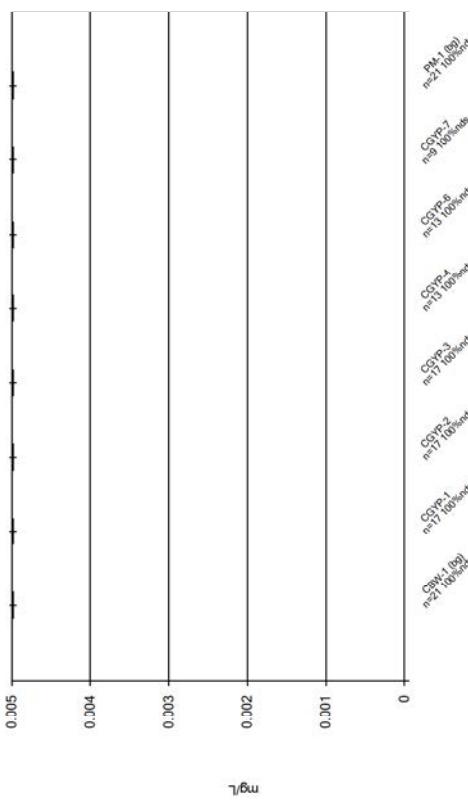
Box & Whiskers Plot



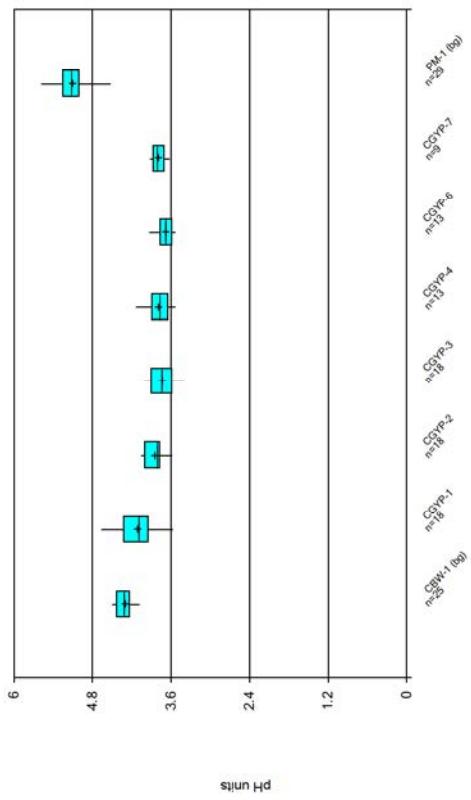
Box & Whiskers Plot



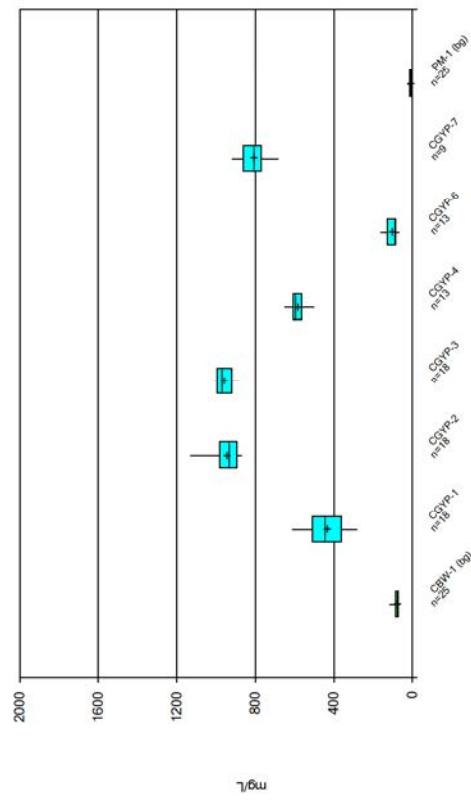
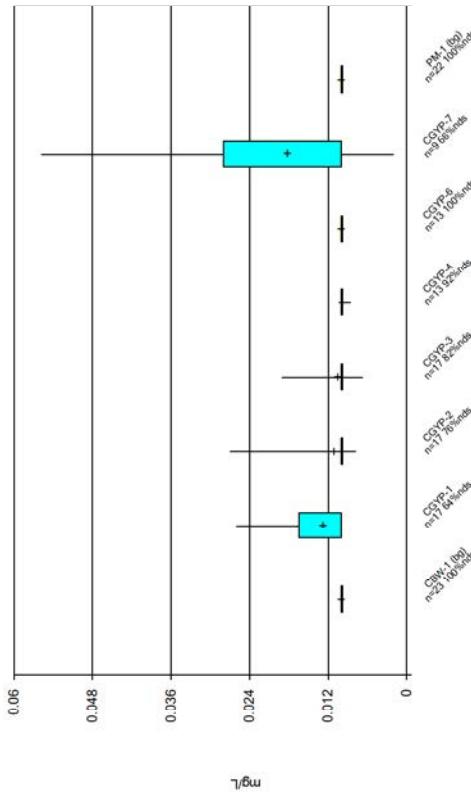
Box & Whiskers Plot



Box & Whiskers Plot

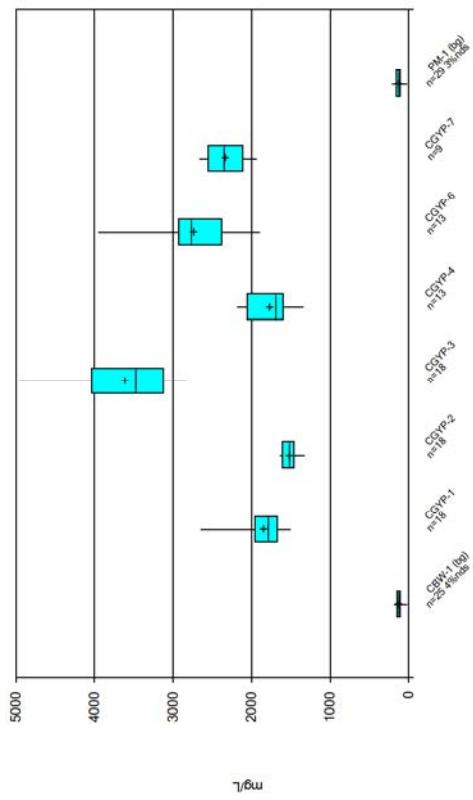


Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/7/2024 6:30 PM
CGYP Data: CGYP

Box & Whiskers Plot



Constituent: Total Dissolved Solids

Analysis Run 5/7/2024 6:30 PM

CGYP Data: CGYP

FIGURE C.

Outlier Summary

CGYP Client: Santee Cooper Data: CGYP Printed 3/21/2024, 9:00 AM

CGYP-3 Lead (mg/L)

2/10/2021	0.092 (o)
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FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	1/10/2024	9.72	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-3	0.836	n/a	1/10/2024	21.5	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-4	0.836	n/a	1/10/2024	5.18	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-6	0.836	n/a	1/4/2024	8.33	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-7	0.836	n/a	1/4/2024	10.3	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Calcium (mg/L)	CGYP-1	50.89	n/a	1/10/2024	257	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-2	50.89	n/a	1/4/2024	173	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-3	50.89	n/a	1/10/2024	665	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-4	50.89	n/a	1/10/2024	221	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-6	50.89	n/a	1/4/2024	474	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-7	50.89	n/a	1/4/2024	343	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Chloride (mg/L)	CGYP-1	13.5	n/a	1/10/2024	733	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-2	13.5	n/a	1/4/2024	59.3	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-3	13.5	n/a	1/10/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-4	13.5	n/a	1/10/2024	334	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-6	13.5	n/a	1/4/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-7	13.5	n/a	1/4/2024	802	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	CGYP-1	0.3	n/a	1/10/2024	0.84	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-2	0.3	n/a	1/4/2024	0.92	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-3	0.3	n/a	1/10/2024	0.98	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-4	0.3	n/a	1/10/2024	1.17	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-6	0.3	n/a	1/4/2024	1.08	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-7	0.3	n/a	1/4/2024	1.01	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
pH, Field (pH units)	CGYP-2	5.58	4.09	1/4/2024	3.83	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-3	5.58	4.09	1/10/2024	4.01	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-4	5.58	4.09	1/10/2024	3.81	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-6	5.58	4.09	1/4/2024	3.7	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-7	5.58	4.09	1/4/2024	3.77	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-1	115	n/a	1/10/2024	384	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-2	115	n/a	1/4/2024	1130	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-3	115	n/a	1/10/2024	889	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-4	115	n/a	1/10/2024	502	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-6	115	n/a	1/4/2024	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-7	115	n/a	1/4/2024	684	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-1	205.2	n/a	1/10/2024	1570	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-2	205.2	n/a	1/4/2024	1326	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-3	205.2	n/a	1/10/2024	3978	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-4	205.2	n/a	1/10/2024	1339	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-6	205.2	n/a	1/4/2024	2484	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-7	205.2	n/a	1/4/2024	2120	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	

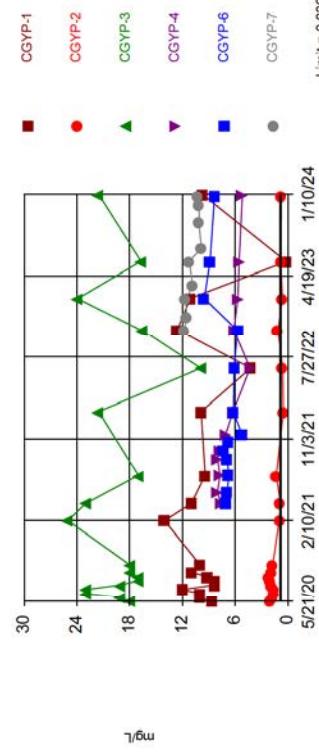
Appendix III Interwell Prediction Limits - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	1/10/2024	9.72	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-2	0.836	n/a	1/4/2024	0.727	No	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-3	0.836	n/a	1/10/2024	21.5	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-4	0.836	n/a	1/10/2024	5.18	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-6	0.836	n/a	1/4/2024	8.33	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Boron (mg/L)	CGYP-7	0.836	n/a	1/4/2024	10.3	Yes	47	n/a	n/a	23.4	n/a	n/a	0.0008569	NP Inter (normality) 1 of 2	
Calcium (mg/L)	CGYP-1	50.89	n/a	1/10/2024	257	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-2	50.89	n/a	1/4/2024	173	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-3	50.89	n/a	1/10/2024	665	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-4	50.89	n/a	1/10/2024	221	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-6	50.89	n/a	1/4/2024	474	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Calcium (mg/L)	CGYP-7	50.89	n/a	1/4/2024	343	Yes	49	3.062	0.4554	0	None	In(x)	0.001254	Param Inter 1 of 2	
Chloride (mg/L)	CGYP-1	13.5	n/a	1/10/2024	733	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-2	13.5	n/a	1/4/2024	59.3	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-3	13.5	n/a	1/10/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-4	13.5	n/a	1/10/2024	334	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-6	13.5	n/a	1/4/2024	1150	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Chloride (mg/L)	CGYP-7	13.5	n/a	1/4/2024	802	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	CGYP-1	0.3	n/a	1/10/2024	0.84	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-2	0.3	n/a	1/4/2024	0.92	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-3	0.3	n/a	1/10/2024	0.98	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-4	0.3	n/a	1/10/2024	1.17	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-6	0.3	n/a	1/4/2024	1.08	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	CGYP-7	0.3	n/a	1/4/2024	1.01	Yes	46	n/a	n/a	52.17	n/a	n/a	0.0008958	NP Inter (NDs) 1 of 2	
pH, Field (pH units)	CGYP-1	5.58	4.09	1/10/2024	4.39	No	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-2	5.58	4.09	1/4/2024	3.83	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-3	5.58	4.09	1/10/2024	4.01	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-4	5.58	4.09	1/10/2024	3.81	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-6	5.58	4.09	1/4/2024	3.7	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
pH, Field (pH units)	CGYP-7	5.58	4.09	1/4/2024	3.77	Yes	54	n/a	n/a	0	n/a	n/a	0.001306	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-1	115	n/a	1/10/2024	384	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-2	115	n/a	1/4/2024	1130	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-3	115	n/a	1/10/2024	889	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-4	115	n/a	1/10/2024	502	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-6	115	n/a	1/4/2024	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	CGYP-7	115	n/a	1/4/2024	604	Yes	50	n/a	n/a	0	n/a	n/a	0.0007403	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-1	205.2	n/a	1/10/2024	1570	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-2	205.2	n/a	1/4/2024	1328	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-3	205.2	n/a	1/10/2024	3978	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-4	205.2	n/a	1/10/2024	1339	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-6	205.2	n/a	1/4/2024	2484	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	CGYP-7	205.2	n/a	1/4/2024	2120	Yes	54	130.6	39.38	3.704	None	No	0.001254	Param Inter 1 of 2	

Exceeds Limit: CGYP-1, CGYP-3, CGYP-4,
CGYP-6, CGYP-7

Prediction Limit Interwell Non-parametric

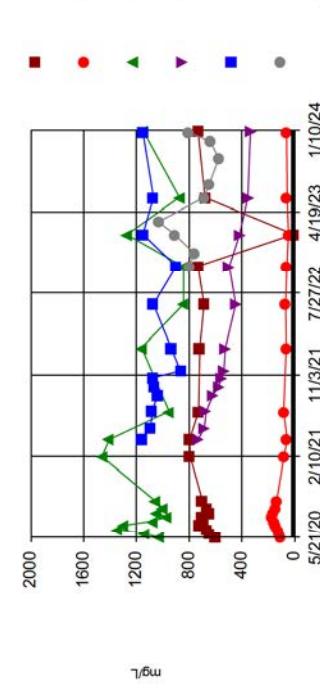


Non-parametric test used in lieu of parametric prediction limit; because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 23.4% NDs. Annual per-constituent alpha = 0.01023. Individual comparison alpha = 0.0008569 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3,
CGYP-4, CGYP-6, CGYP-7

Prediction Limit Interwell Non-parametric

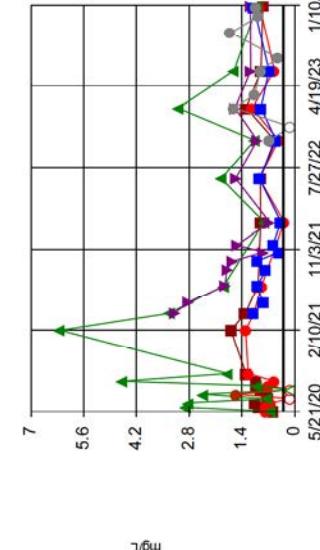


Non-parametric test used in lieu of parametric prediction limit; because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.008848. Individual comparison alpha = 0.0007403 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Background Data Summary (based on natural log transformation): Mean=3.652, Std. Dev=0.4554, n=49. Normally test: Shapiro Wilk @alpha = 0.01 calculated = 0.3336, critical = 0.929. Karpa = 1.905 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Prediction Limit Interwell Parametric

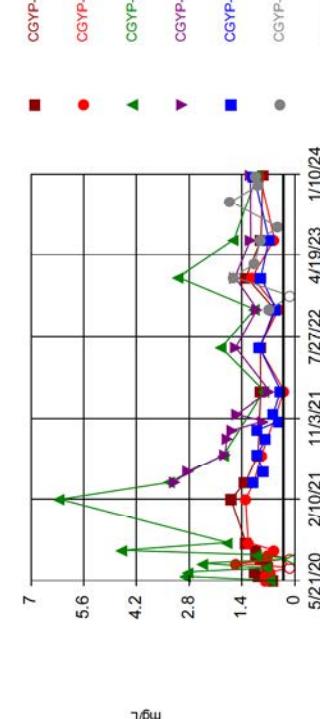


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded data limit = 50.89 of 46 background values. 52.17% NDs. Annual per-constituent alpha = 0.0107. Individual comparison alpha = 0.0008958 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Background Data Summary (based on natural log transformation): Mean=3.652, Std. Dev=0.4554, n=49. Normally test: Shapiro Wilk @alpha = 0.01 calculated = 0.3336, critical = 0.929. Karpa = 1.905 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

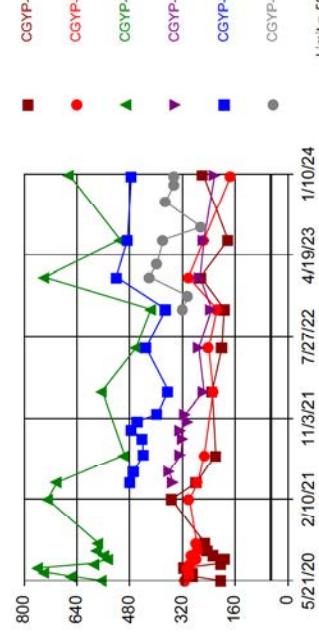
Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded data limit = 50%. Limit is highest of 46 background values. 52.17% NDs. Annual per-constituent alpha = 0.0107. Individual comparison alpha = 0.0008958 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Prediction Limit Interwell Parametric

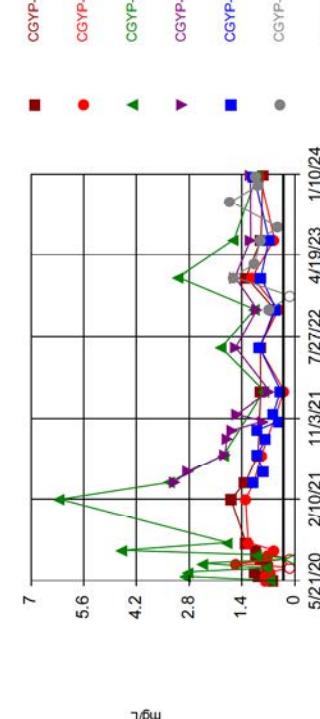


Non-parametric test used in lieu of parametric prediction limit; because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 23.4% NDs. Annual per-constituent alpha = 0.01023. Individual comparison alpha = 0.0008569 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Background Data Summary (based on natural log transformation): Mean=3.652, Std. Dev=0.4554, n=49. Normally test: Shapiro Wilk @alpha = 0.01 calculated = 0.3336, critical = 0.929. Karpa = 1.905 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Prediction Limit Interwell Non-parametric

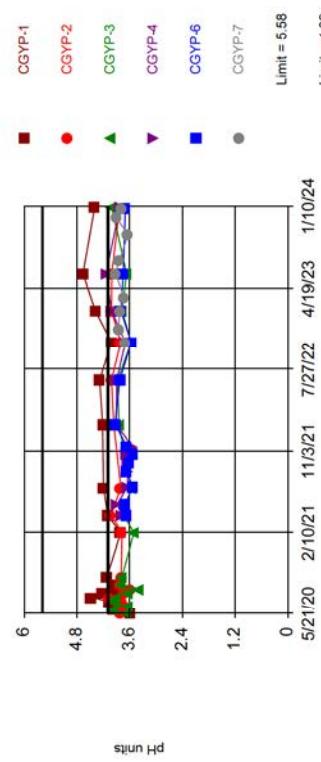


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded data limit = 50.89 of 46 background values. 52.17% NDs. Annual per-constituent alpha = 0.0107. Individual comparison alpha = 0.0008958 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limits: CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Prediction Limit
Interwell Non-parametric

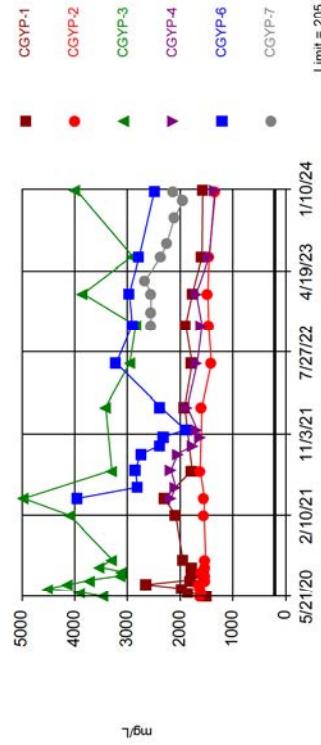


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 5d background values. Annual per-constituent alpha = 0.1561. Individual comparison alpha = 0.001306 (1 or 2). Comparing 6 points to limit.

Constituent: pH Field Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Prediction Limit
Interwell Parametric

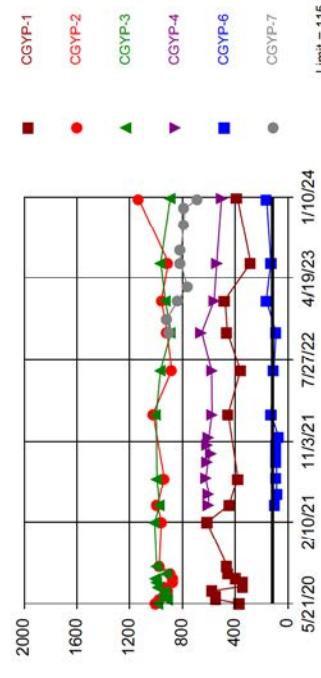


Background Data Summary: Mean=130.6, Std. Dev.=39.38, n=54, 3.704% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9508, critical = 0.939. Kappa = 1.893 (o=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.008848. Individual comparison alpha = 0.0007403 (1 or 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

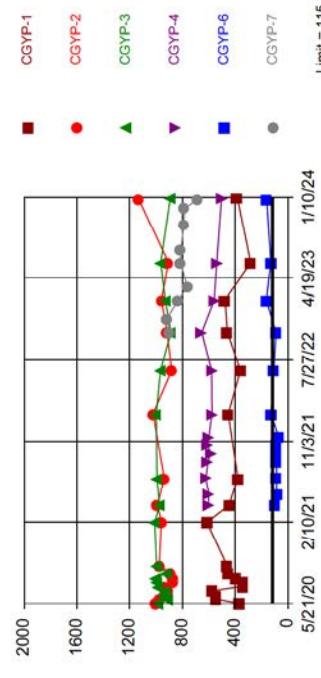
Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.008848. Individual comparison alpha = 0.0007403 (1 or 2). Comparing 6 points to limit.

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Prediction Limit
Interwell Parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.008848. Individual comparison alpha = 0.0007403 (1 or 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 4/4/2024 2:32 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
10/19/2015	0.032	0.0178						
1/26/2016	0.0218	<0.015						
4/19/2016	0.0183	<0.015						
7/18/2016	0.0217	0.0163						
10/11/2016	0.0302	0.0165						
1/23/2017	0.0249	<0.015						
4/17/2017	0.018	0.019						
7/25/2017	0.022							
9/25/2017	0.024	0.018						
10/9/2017	0.023	0.021						
2/7/2018	0.018	<0.015						
6/20/2018	0.02	0.016						
10/1/2018	0.025	0.015						
2/12/2019	<0.015	<0.015						
2/24/2020	0.017	<0.015						
5/21/2020			2	18	8.6			
6/4/2020				1.7	19	10		
6/18/2020				1.6	23	10		
6/22/2020	0.018	0.049						
7/1/2020				23	12			
7/2/2020			1.6					
7/16/2020			1.9	19	8.3			
7/30/2020			2	17	8.3			
8/13/2020			2.1	17	9.1			
8/27/2020			1.9	18	11			
9/21/2020			1.7	18	10			
1/26/2021	0.018	<0.015						
2/10/2021			0.96	25	14			
4/7/2021			0.85	23	11	7	7.6	
5/13/2021						6.9	8	
6/21/2021	<0.015	<0.015						
7/7/2021			1.3	17	9.4			
7/8/2021						6.7	7.7	
8/31/2021						6.9		
9/1/2021							8	
9/27/2021						7.3	7.8	
10/26/2021						6.7	6.8	
11/17/2021						5.2	7.1	
1/24/2022	0.0139	0.011						
1/31/2022			0.51	21.5	9.84	6.2	6.21	
6/20/2022	0.015	<0.015						
6/21/2022			0.57	9.9	4.2	6.1	4.3	
10/25/2022	0.0203	0.0437	1.14	16.6		5.71	6.13	
10/26/2022					12.6			11.8
12/7/2022								11.5
1/24/2023	0.0175	0.0114						
2/6/2023			0.602	23.9			5.67	
2/7/2023					11.1	9.49		11.6
3/20/2023								10.8
6/5/2023		0.0184						
6/6/2023	0.836				0.191			
6/7/2023			0.781	16.7		8.85	5.53	11.2

Prediction Limit

Page 2

Constituent: Boron (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
7/19/2023								9.81
10/10/2023								10.1
12/5/2023								10.1
1/4/2024			0.727			8.33		10.3
1/8/2024	0.0193	0.0142						
1/10/2024			21.5		9.72		5.18	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
10/19/2015	27	26						
1/26/2016	27	27						
4/19/2016	29.4	23.3						
7/18/2016	28.7	18.8						
10/11/2016	22.7	16.4						
1/23/2017	26.2	10.4						
4/17/2017	25.6	12.5						
7/12/2017		18.5						
9/25/2017	21.9	15.4						
10/9/2017	23	17						
2/7/2018	24	14.7						
6/20/2018	24	37						
10/1/2018	22.7	16.6						
2/12/2019	24.4	15.9						
5/20/2019	42.2	16.4						
2/24/2020	28.2	11						
5/21/2020			311	564	204			
6/4/2020			298	658	290			
6/18/2020			299	737	289			
6/22/2020	28.4	13.5						
7/1/2020				759	315			
7/2/2020			305					
7/16/2020			295	587	204			
7/30/2020			279	545	192			
8/13/2020			293	556	224			
8/27/2020			272	579	242			
9/21/2020			276	576	252			
1/26/2021	29.2	14.3						
2/10/2021			298	729	353			
4/7/2021			273	700	276	480	348	
5/13/2021						468	360	
6/21/2021	29.9	17						
7/7/2021			253	495	218			
7/8/2021						438	324	
8/31/2021						441		
9/1/2021							319	
9/27/2021						474	325	
10/26/2021						455	304	
11/17/2021						396	310	
1/24/2022	27.9	14.4						
1/31/2022			226	563	229	362	254	
6/20/2022	29	6.2						
6/21/2022			240	460	200	430	270	
10/25/2022	27.5	13.1	214	415		370	231	
10/26/2022					193			320
12/7/2022								303
1/24/2023	29.3	12.6						
2/6/2023			301	737			266	
2/7/2023					264	520		420
3/20/2023								397
6/5/2023		12.7						
6/6/2023	33.9				181			

Prediction Limit

Page 2

Constituent: Calcium (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
6/7/2023			254	508		486	254	377
7/19/2023								262
10/10/2023								372
12/5/2023								345
1/4/2024			173			474		343
1/8/2024	25	119						
1/10/2024				665	257		221	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
10/19/2015	3.21	12.7						
1/26/2016	2.95	11.3						
4/19/2016	2.33	12.1						
7/18/2016	2.95	13.2						
10/11/2016	3	12.8						
1/23/2017	2.45	13.5						
4/17/2017	2.96	12.7						
7/12/2017		12.1						
7/25/2017	2.61							
9/25/2017	2.51	13.3						
10/9/2017	2.73	12.6						
2/7/2018	2.88	12.4						
6/20/2018	3	13.4						
10/1/2018	2.71	12.9						
2/12/2019	2.68	12.1						
5/20/2019	2.9	12.7						
2/24/2020	3.25	12.7						
5/21/2020			103	1030	600			
6/4/2020			117	1140	644			
6/18/2020			127	1340	666			
6/22/2020	3.44	12.67						
7/1/2020				1300	717			
7/2/2020			145					
7/16/2020			153	1070	694			
7/30/2020			176	971	703			
8/13/2020			163	1050	647			
8/27/2020			146	998	666			
9/21/2020			136	1060	699			
1/26/2021	3.22	11.8						
2/10/2021			79.5	1460	791			
4/7/2021			55.87	1405	795	1160	733	
5/13/2021						1090	683	
6/21/2021	3.05	12						
7/7/2021			83.1	950	728			
7/8/2021						1082	670	
8/31/2021						1033		
9/1/2021							617	
9/27/2021						1061	574	
10/26/2021						1070	553	
11/17/2021						865	537	
1/24/2022	3.21	12.1						
1/31/2022			63	1160	717	937	523	
6/20/2022	3.79	13.4						
6/21/2022			66.4	841	686	1070	445	
10/25/2022	3.78	12.7	57.3	842		896	495	
10/26/2022					733			797
12/7/2022								761
1/24/2023	3	12.3						
2/6/2023			46	1270			417	
2/7/2023					7.21	1150		910
3/20/2023								1030
6/5/2023		12.4						

Prediction Limit

Page 2

Constituent: Chloride (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
6/6/2023		3.73			679			
6/7/2023				55.9	872		1070	353
7/19/2023								648
10/10/2023								575
12/5/2023								638
1/4/2024				59.3			1150	
1/8/2024	3.48	12.8						802
1/10/2024				1150	733		334	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
10/19/2015	0.25	<0.1						
1/26/2016	0.3	<0.1						
4/19/2016	0.29	<0.1						
7/18/2016	0.27	<0.1						
10/11/2016	0.28	<0.1						
1/23/2017	0.25	<0.1						
4/17/2017	0.22	<0.1						
9/25/2017	0.23	<0.1						
10/9/2017	0.22	<0.1						
2/7/2018	0.19	<0.1						
6/20/2018	0.2	<0.1						
10/1/2018	0.19	<0.1						
2/12/2019	0.18	<0.1						
2/24/2020	0.19	<0.1						
5/21/2020			0.75	0.65	0.58			
6/4/2020			0.75	2.89	0.96			
6/18/2020			0.62	2.82	1.05			
6/22/2020	0.2	<0.1						
7/1/2020			0.73	0.69				
7/2/2020		<0.1						
7/16/2020			1.55	2.41	0.72			
7/30/2020			<0.1	<0.1	0.91			
8/13/2020			0.71	1	1.04			
8/27/2020			0.54	4.57	1.02			
9/21/2020			1.23	1.77	1.29			
1/26/2021	0.15	<0.1						
2/10/2021			1.3	6.22	1.69			
4/7/2021			1.08	3.32	1.31	3.19	1.1	
5/13/2021						2.82	0.84	
6/21/2021	0.19	<0.1						
7/7/2021			0.87	1.88	0.97			
7/8/2021						1.85	0.99	
8/31/2021							0.75	
9/1/2021						1.79		
9/27/2021						1.63	0.98	
10/26/2021						0.83	0.42	
11/17/2021						1.53	0.58	
1/24/2022	0.22	<0.1						
1/31/2022			0.28	0.81	0.9	0.67	0.36	
6/20/2022	0.18	<0.1						
6/21/2022			0.93	1.94	0.91	1.56	0.93	
10/25/2022	<0.1	<0.1	0.42	1.06		0.99	0.49	
10/26/2022					0.53			0.66
12/7/2022								<0.1
1/24/2023	0.15	<0.1						
2/6/2023			1.12	3.08		1.58		
2/7/2023					1.28		0.89	1.61
3/20/2023								1.06
6/5/2023		<0.1						
6/6/2023	0.23				0.89			
6/7/2023			0.53	1.6		1.16	0.68	0.91
7/19/2023								0.44

Prediction Limit

Page 2

Constituent: Fluoride (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
10/10/2023								1.7
12/5/2023								0.96
1/4/2024			0.92				1.08	1.01
1/8/2024	0.14	<0.1			0.84		1.17	
1/10/2024				0.98				

Prediction Limit

Constituent: pH, Field (pH units) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-2	CGYP-1	CGYP-3	CGYP-6	CGYP-4	CGYP-7
1/26/2015	4.53							
2/16/2015	4.68							
6/16/2015	4.74							
7/6/2015	5.25							
10/19/2015	5.47	4.45						
1/26/2016	5.2	4.12						
4/19/2016	5.32	4.33						
7/18/2016	5.2	4.38						
10/11/2016	5.01	4.14						
1/23/2017	5.01	4.32						
4/17/2017	5.19	4.26						
7/12/2017	5.11							
7/25/2017		4.21						
9/25/2017	5.27	4.32						
10/9/2017	5.21	4.25						
2/7/2018	5.29	4.42						
6/20/2018	5.58	4.32						
10/1/2018	5.08	4.09						
2/12/2019	5.47	4.5						
5/20/2019	5.26	4.5						
2/24/2020	4.92	4.09						
5/21/2020			3.82	3.58	3.66			
6/4/2020			3.86	3.98	3.99			
6/18/2020			3.69	3.89	3.63			
6/22/2020	5.12	4.48						
7/1/2020				4.06	3.96			
7/2/2020			3.79					
7/16/2020			4.06	4.48	3.93			
7/30/2020			3.72	4.22	3.63			
8/13/2020			3.59	3.92	3.4			
8/27/2020			3.81	3.98	3.81			
9/21/2020			3.79	4.11	3.77			
1/26/2021	5.03	4.31						
2/10/2021			3.77	3.8	3.5			
4/7/2021			4.02	4.1	3.73	3.68	3.78	
5/13/2021						3.7	3.88	
6/21/2021	5.21	4.25						
7/7/2021			3.8	4.19	3.56			
7/8/2021						3.54	3.65	
8/31/2021						3.67		
9/1/2021							3.65	
9/27/2021						3.62	3.65	
10/26/2021						3.54	3.66	
11/17/2021						3.66	3.54	
1/24/2022	5.19	4.26						
1/31/2022			3.96	4.21	3.84	3.93	3.9	
6/20/2022	4.84	4.45						
6/21/2022			4.01	4.28	3.87	3.82	3.89	
10/25/2022	5.01	4.31	3.8		3.56	3.56	3.69	
10/26/2022				4.01				3.69
12/7/2022								3.85
1/24/2023	4.84	4.23						

Prediction Limit

Page 2

Constituent: pH, Field (pH units) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-2	CGYP-1	CGYP-3	CGYP-6	CGYP-4	CGYP-7
2/6/2023			4.01		3.77		4.01	
2/7/2023				4.38		3.8		3.82
3/20/2023								3.72
6/5/2023	5.08							
6/6/2023		4.34		4.66				
6/7/2023			4		3.67	3.74	4.13	3.92
7/19/2023								3.83
10/10/2023								3.63
12/5/2023								3.9
1/4/2024			3.83			3.7		3.77
1/8/2024	5.13	4.44			4.01			
1/10/2024						3.81		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
10/19/2015	81.5	26.5						
1/26/2016	88.2	25.5						
4/19/2016	86	20.2						
7/18/2016	90.1	16						
10/11/2016	73.7	19.3						
1/23/2017	77.7	8.82						
4/17/2017	71.2	9.71						
7/12/2017		11.1						
7/25/2017	73.3							
9/25/2017	74.5	8.03						
10/9/2017	76.8	8.77						
2/7/2018	69.1	13.5						
6/20/2018	67.9	8.58						
10/1/2018	65.5	11.9						
2/12/2019	69.1	8.96						
5/20/2019	115	10.5						
2/24/2020	79.8	8.36						
5/21/2020			1000	978	364			
6/4/2020			968	911	544			
6/18/2020			932	946.1	540			
6/22/2020	79.9	8.32						
7/1/2020				924	575			
7/2/2020			908					
7/16/2020			933	983	338			
7/30/2020			868	991	340			
8/13/2020			868	999	391			
8/27/2020			885	913	448			
9/21/2020			976	995	460			
1/26/2021	80.7	9.98						
2/10/2021			957	1010	613			
4/7/2021			987	972	445	96.3	602	
5/13/2021						83.6	598	
6/21/2021	86.6	11.9						
7/7/2021			937	993	377			
7/8/2021						84.3	621	
8/31/2021						84.3		
9/1/2021							605	
9/27/2021						90.9	584	
10/26/2021						92.7	611	
11/17/2021						67	600	
1/24/2022	82.8	11.7						
1/31/2022			1020	998	451	128	575	
6/20/2022	78.3	6.59						
6/21/2022			881	966	359	106	576	
10/25/2022	80.4	7.99	914	885		89.3	652	
10/26/2022					458			894
12/7/2022								920
1/24/2023	84.2	8.12						
2/6/2023			958	928			557	
2/7/2023					476	163		830
3/20/2023								761
6/5/2023		9.11						

Prediction Limit

Page 2

Constituent: Sulfate (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
6/6/2023	97.1				282			
6/7/2023			904	964		129	538	813
7/19/2023								810
10/10/2023								789
12/5/2023								782
1/4/2024			1130			161		684
1/8/2024	83.6	7.62						
1/10/2024				889	384		502	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-2	CGYP-1	CGYP-3	CGYP-6	CGYP-4	CGYP-7
1/26/2015	142.5							
2/16/2015	106.2							
6/16/2015	158							
7/6/2015	151							
10/19/2015	206	150						
1/26/2016	165	120						
4/19/2016	130	120						
7/18/2016	124	132						
10/11/2016	200	151.7						
1/23/2017	138	148						
4/17/2017	56	62						
7/12/2017	108							
7/25/2017		92						
9/25/2017	<40	<40						
10/9/2017	80	115						
2/7/2018	112	92						
6/20/2018	200	138.8						
10/1/2018	130	107.5						
2/12/2019	136.2	135						
5/20/2019	162.5	181.2						
2/24/2020	120	107.5						
5/21/2020			1609	1505	3449			
6/4/2020			1589	1839	3895			
6/18/2020			1624	1964	4502			
6/22/2020	112.5	147.5						
7/1/2020				2650	4120			
7/2/2020			1634					
7/16/2020			1512	1811	3700			
7/30/2020			1515	1541	3138			
8/13/2020			1599	1768	3102			
8/27/2020			1526	1772	3519			
9/21/2020			1515	1945	3283			
1/26/2021	110	138.8						
2/10/2021			1538	2081	4090			
4/7/2021			1536	2301	4958	3952	2178	
5/13/2021						2804	2078	
6/21/2021	155	178.8						
7/7/2021			1618	1770	3291			
7/8/2021						2851	2168	
8/31/2021						2740		
9/1/2021							2038	
9/27/2021						2382	1749	
10/26/2021						2306	1614	
11/17/2021						1899	1676	
1/24/2022	128.8	130						
1/31/2022			1582	1912	3410	2379	1864	
6/20/2022	137.5	143.8						
6/21/2022			1408	1771	2952	3210	1676	
10/25/2022	96.25	110	1454		2835	2902	1585	
10/26/2022				1894				2545
12/7/2022								2554
1/24/2023	111.2	142.5						

Prediction Limit

Page 2

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/4/2024 2:33 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-2	CGYP-1	CGYP-3	CGYP-6	CGYP-4	CGYP-7
2/6/2023			1474		3838		1689	
2/7/2023				1764		2959		2546
3/20/2023								2665
6/5/2023	130							
6/6/2023		178.8		1584				
6/7/2023			1451		2903	2774	1445	2355
7/19/2023								2252
10/10/2023								2101
12/5/2023								1935
1/4/2024			1328			2484		2120
1/8/2024	193.8	188.8						
1/10/2024				1570	3978		1339	

FIGURE E.

Appendix III Trend Tests Summary - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:18 PM

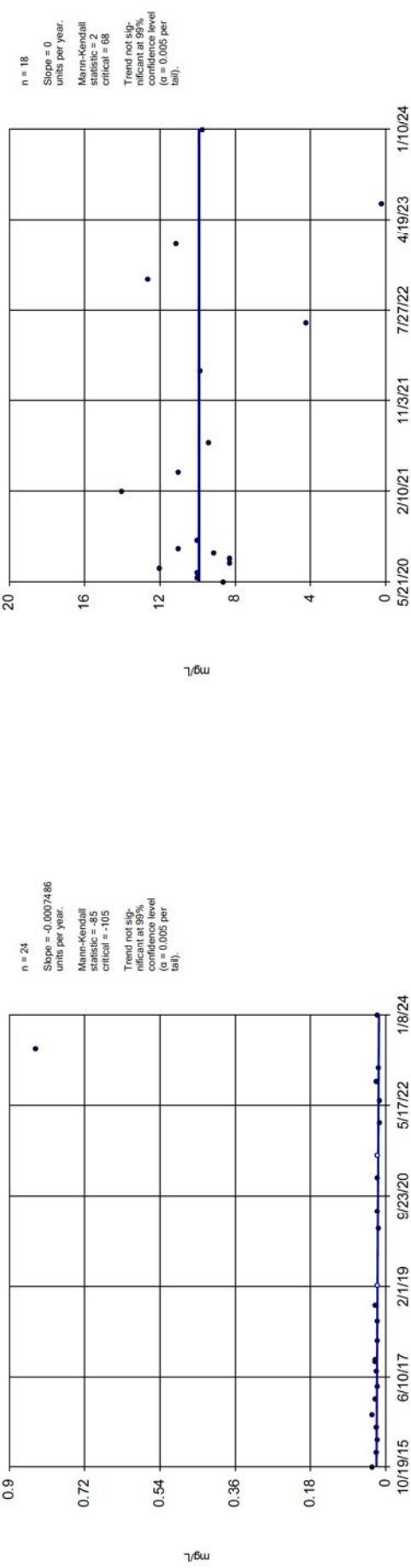
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CGYP-4	-1.182	-55	-43	Yes	13	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-32.05	-94	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-49.92	-61	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.1114	137	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-26.99	-75	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-157.5	-76	-43	Yes	13	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-98	Yes	23	4.348	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-112.5	-26	-25	Yes	9	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.9378	-151	-111	Yes	25	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-53.84	-74	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-303.1	-57	-43	Yes	13	0	n/a	0.01	NP

Appendix III Trend Tests Summary - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:18 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CBW-1 (bg)	-0.0007486	-85	-105	No	24	8.333	n/a	0.01	NP
Boron (mg/L)	CGYP-1	0	2	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	CGYP-3	-0.1787	-18	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	CGYP-4	-1.182	-55	-43	Yes	13	0	n/a	0.01	NP
Boron (mg/L)	CGYP-6	0	0	43	No	13	0	n/a	0.01	NP
Boron (mg/L)	CGYP-7	-1.421	-21	-25	No	9	0	n/a	0.01	NP
Boron (mg/L)	PM-1 (bg)	-9.1e-10	-44	-98	No	23	39.13	n/a	0.01	NP
Calcium (mg/L)	CBW-1 (bg)	0.4058	67	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-1	-9.09	-26	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-32.05	-94	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-3	-34.76	-34	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-49.92	-61	-43	Yes	13	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-6	-5.288	-3	-43	No	13	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-7	-51.77	-6	-25	No	9	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.8489	-100	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.1114	137	111	Yes	25	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-1	16.22	44	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-26.99	-75	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-3	-57.63	-25	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-157.5	-76	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-6	-5.853	-8	-43	No	13	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-7	-170.3	-12	-25	No	9	0	n/a	0.01	NP
Chloride (mg/L)	PM-1 (bg)	-0.003206	-19	-111	No	25	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-98	Yes	23	4.348	n/a	0.01	NP
Fluoride (mg/L)	CGYP-1	0.009171	2	68	No	18	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-2	0.0469	7	68	No	18	11.11	n/a	0.01	NP
Fluoride (mg/L)	CGYP-3	0.05043	3	68	No	18	5.556	n/a	0.01	NP
Fluoride (mg/L)	CGYP-4	-0.6108	-42	-43	No	13	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-6	-0.06716	-14	-43	No	13	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-7	0.282	8	25	No	9	11.11	n/a	0.01	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	98	No	23	100	n/a	0.01	NP
pH, Field (pH units)	CBW-1 (bg)	0.003572	19	111	No	25	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-2	0.04654	36	68	No	18	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-3	0	-2	-68	No	18	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-4	0.06893	27	43	No	13	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-6	0.02387	14	43	No	13	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-7	0.0364	2	25	No	9	0	n/a	0.01	NP
pH, Field (pH units)	PM-1 (bg)	-0.005573	-17	-139	No	29	0	n/a	0.01	NP
Sulfate (mg/L)	CBW-1 (bg)	0.9778	43	111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-1	-18.83	-15	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-2	6.867	12	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-3	-4.977	-11	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-4	-34.34	-38	-43	No	13	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-6	23.05	39	43	No	13	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-112.5	-26	-25	Yes	9	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.9378	-151	-111	Yes	25	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CBW-1 (bg)	4.776	71	111	No	25	4	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-1	-27.99	-25	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-53.84	-74	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-3	-147	-35	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-303.1	-57	-43	Yes	13	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-6	-134.1	-10	-43	No	13	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-7	-515.3	-22	-25	No	9	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	PM-1 (bg)	-1.525	-40	-139	No	29	3.448	n/a	0.01	NP

Sen's Slope Estimator CBW-1 (bg)



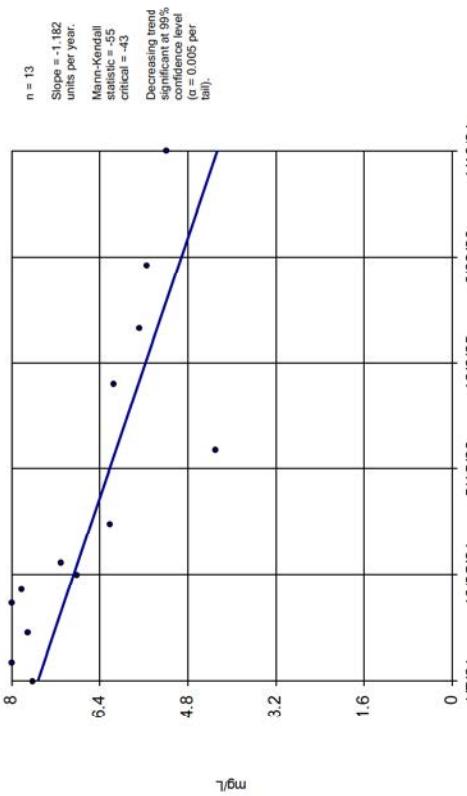
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Sen's Slope Estimator CGYP-3



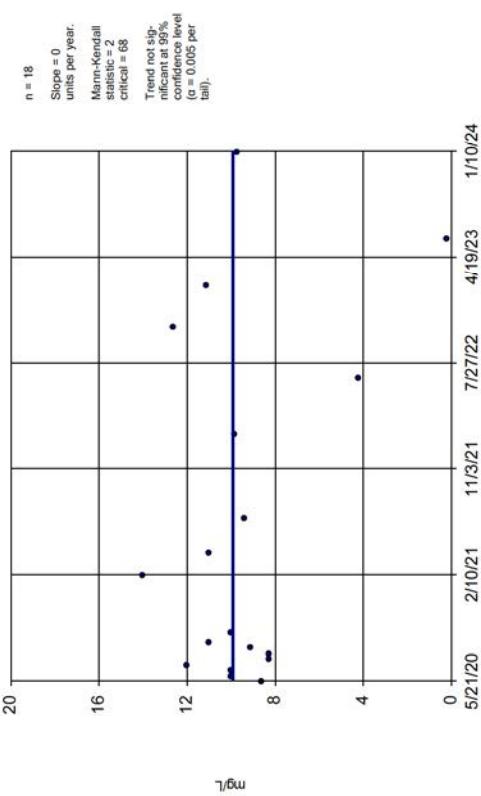
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Sen's Slope Estimator CGYP-4



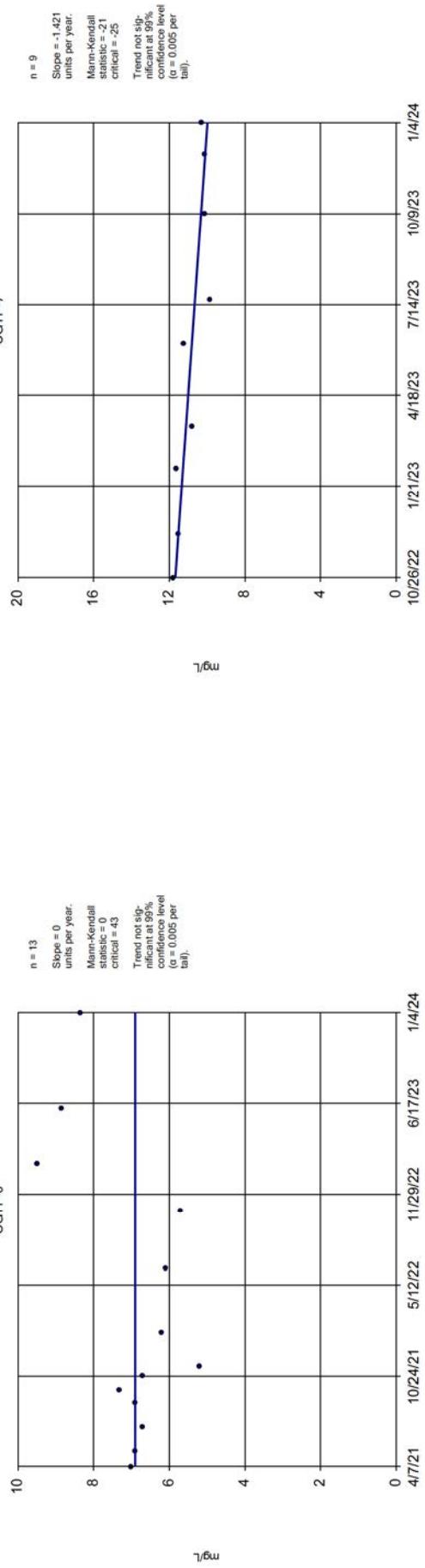
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Sen's Slope Estimator CGYP-1

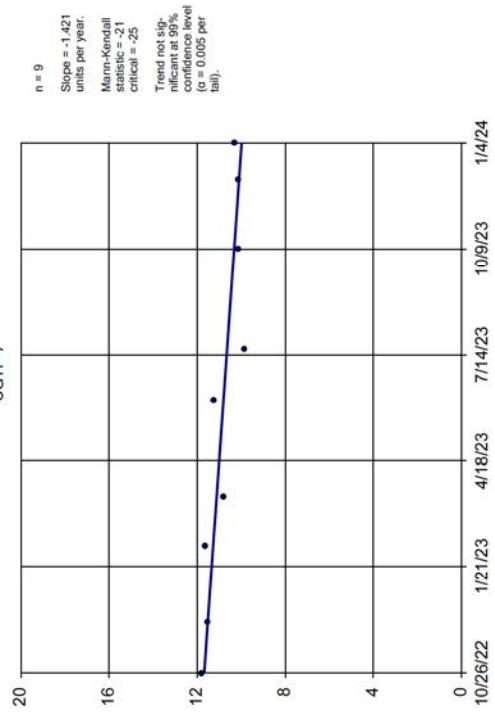


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Sen's Slope Estimator CGYP-6

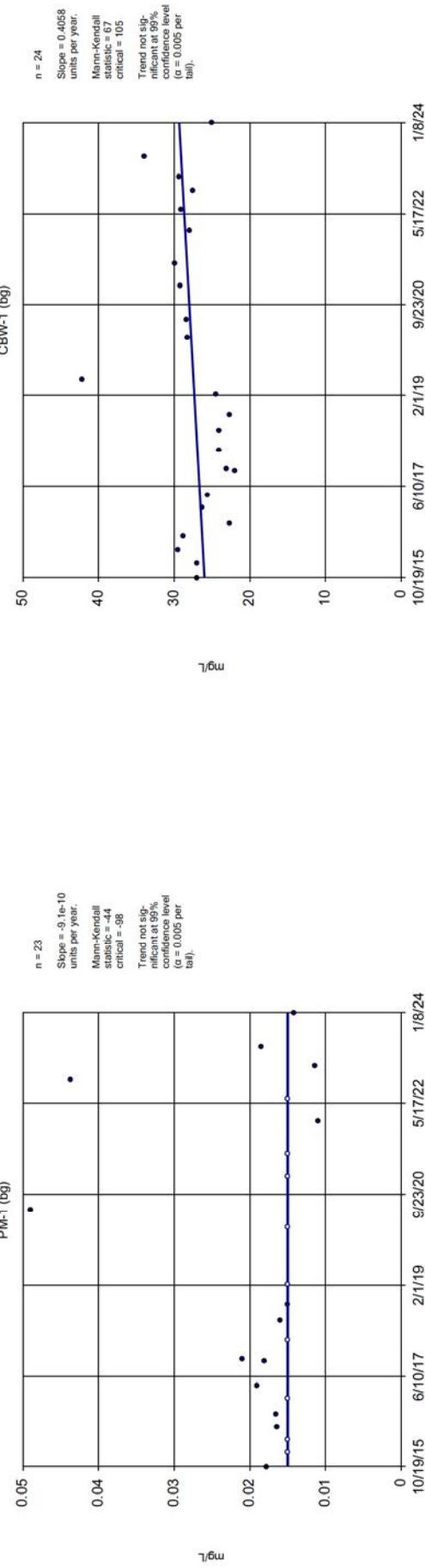


Sen's Slope Estimator CGYP-7

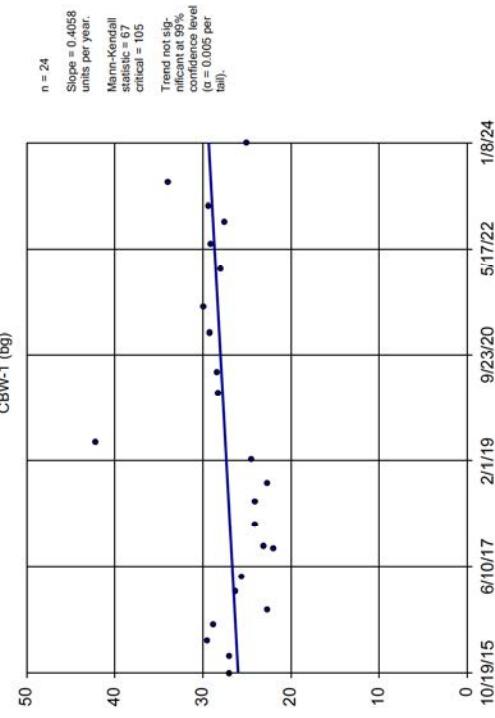


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Sen's Slope Estimator PM-1 (ng)



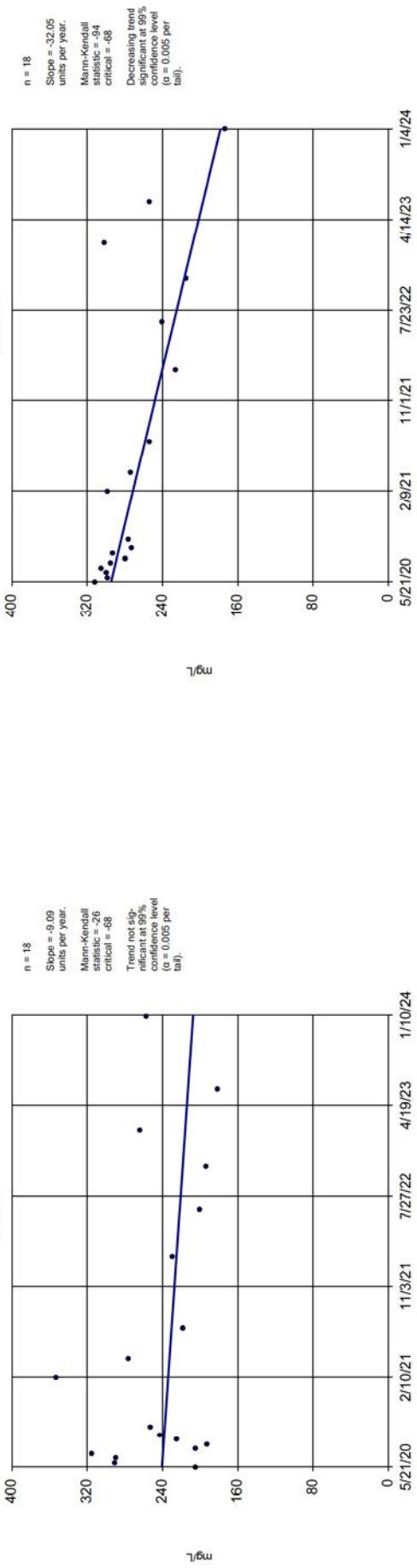
Sen's Slope Estimator CBW-1 (bg)



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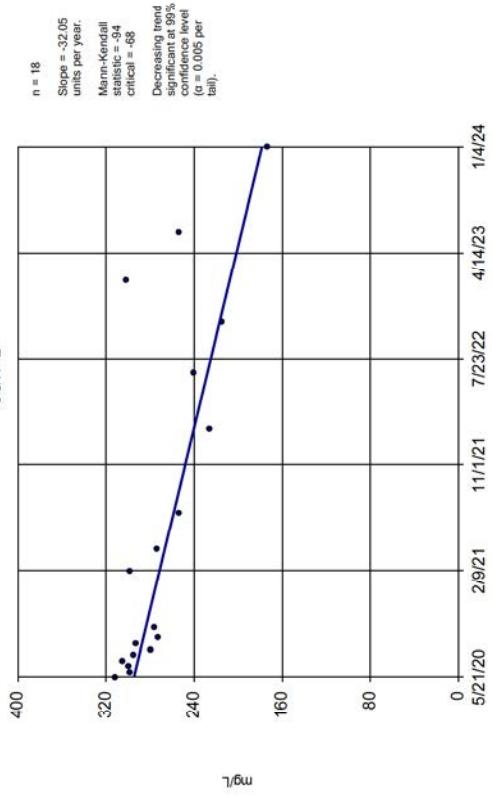
Sen's Slope Estimator CGYP-1



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Sen's

Sen's Slope Estimator CGYP-2



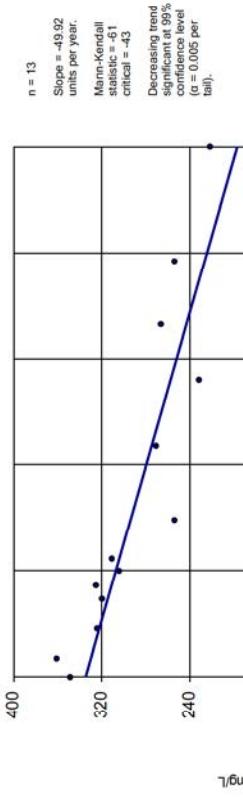
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Sen's Slope Estimator CGYP-3



Constituent: Calcium
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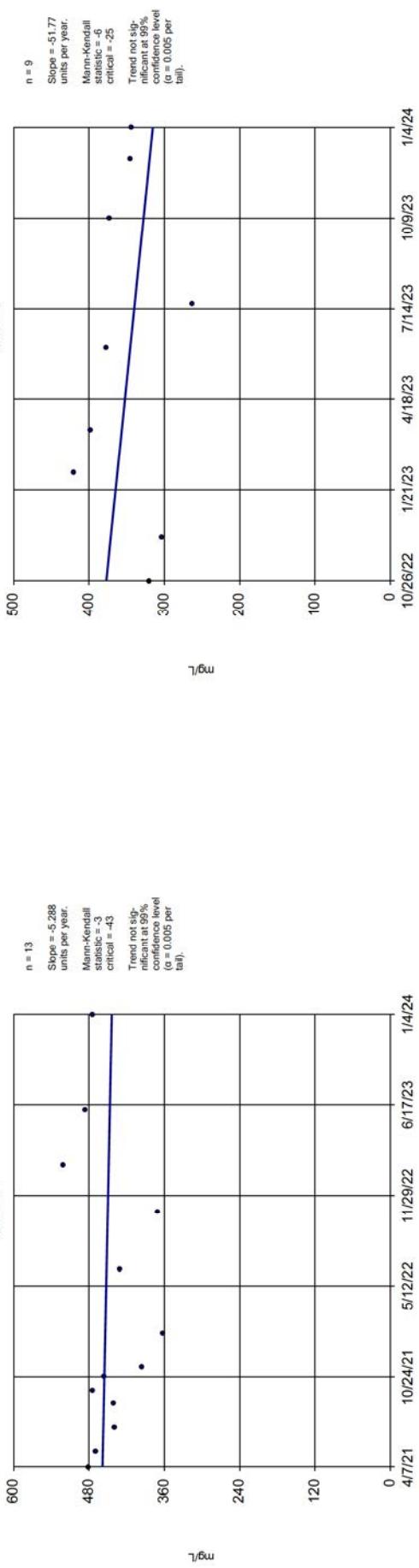
Sen's Slope Estimator CGYP-4



Constituent: Calcium
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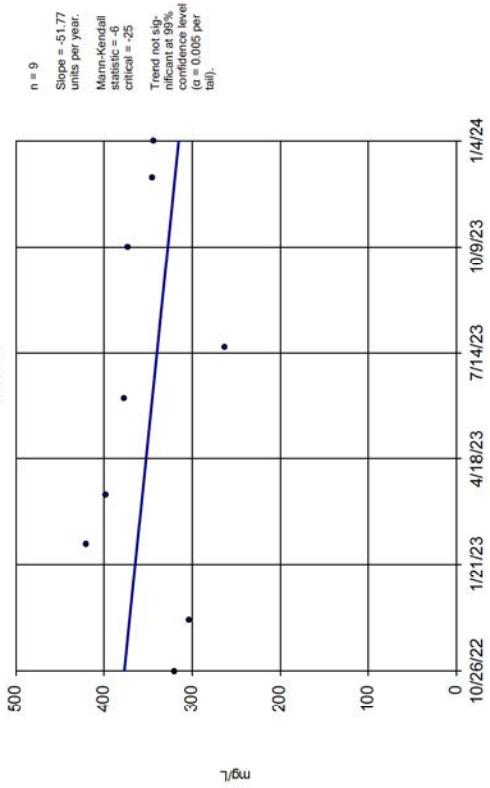
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Sen's Slope Estimator CGYP-6

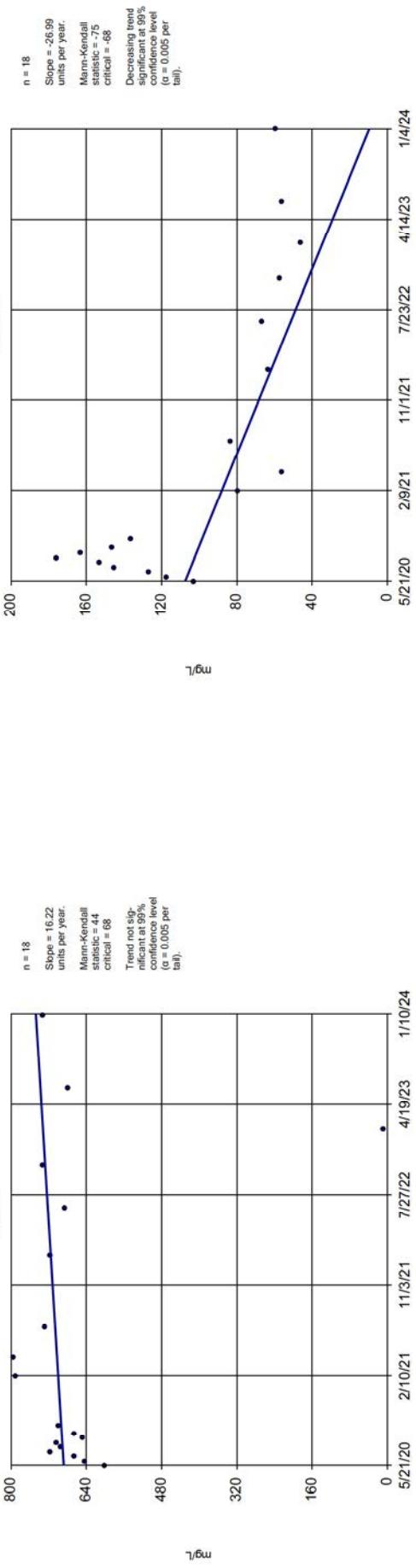


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Analysis Run 4/4/2024 2:17 PM View: Trend Tests

Sen's Slope Estimator CGYP-7

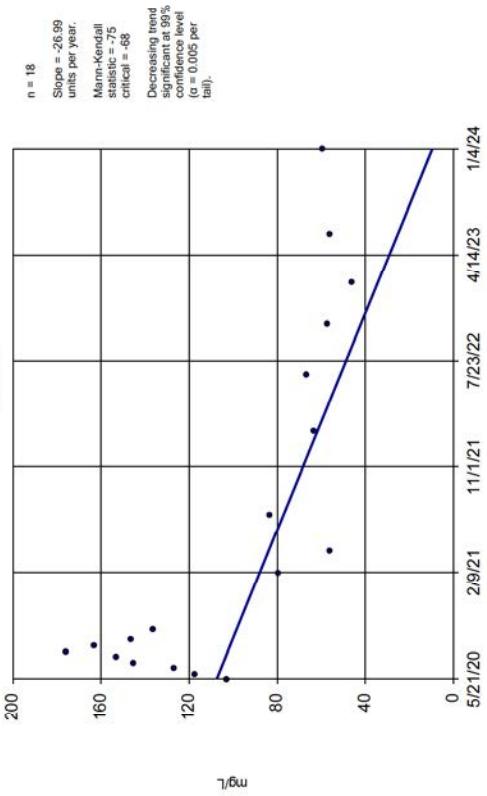


Sen's Slope Estimator CGYP-1



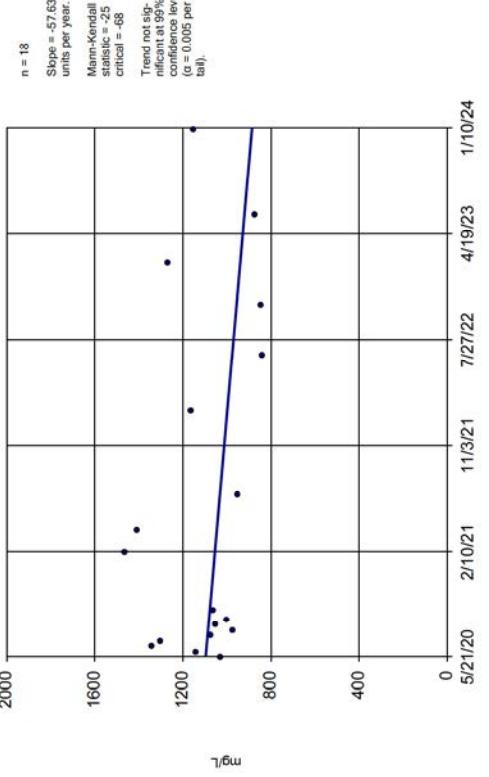
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Sen's Slope Estimator CGYP-2



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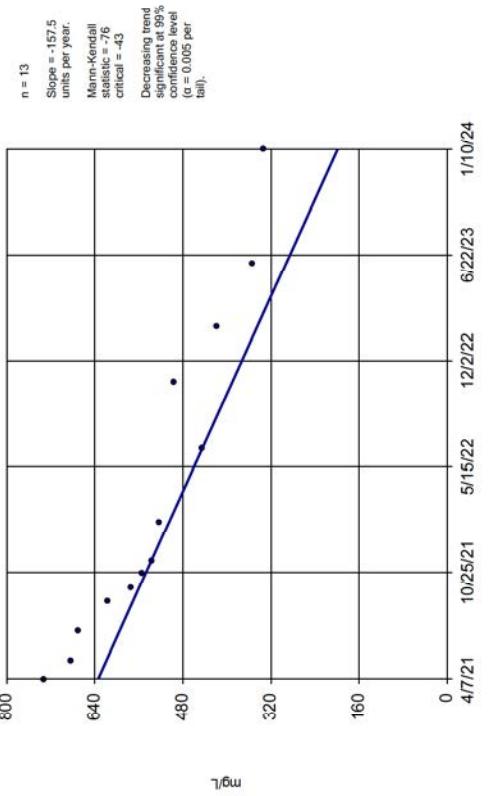
Sen's Slope Estimator CGYP-3



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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4



Constituent: Chloride Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

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CGYP Client: Santee Cooper Data: CGYP

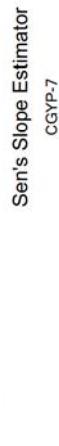
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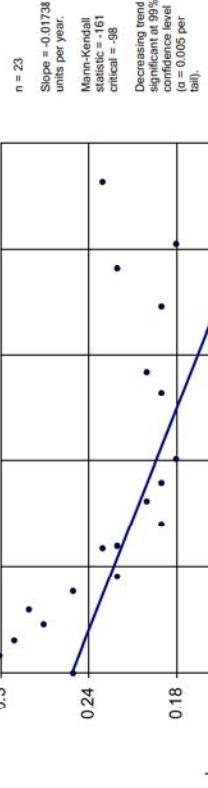
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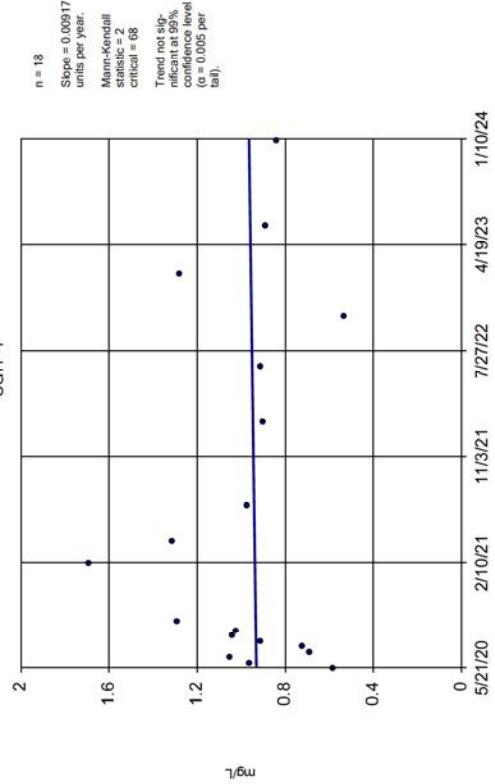
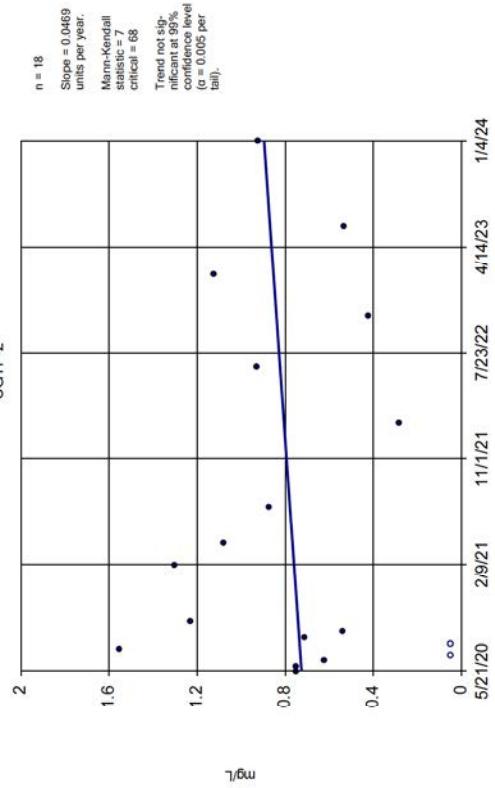
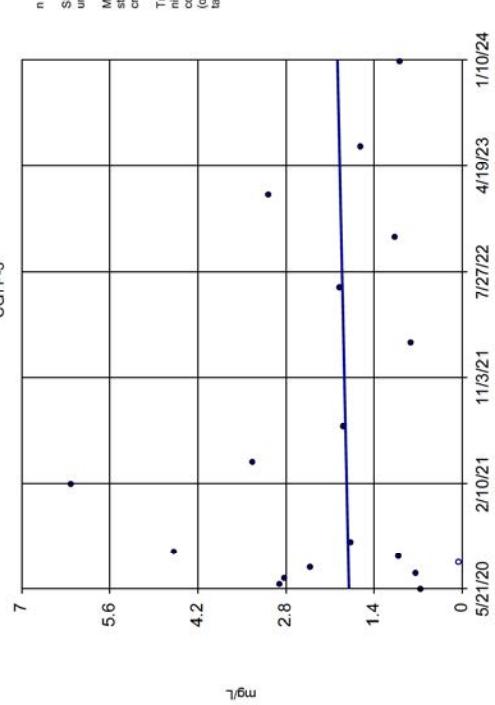
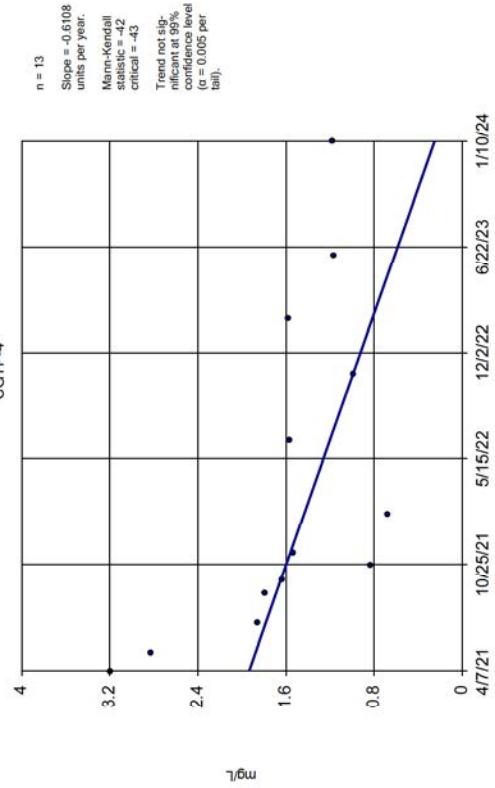


Constituent: Chloride
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

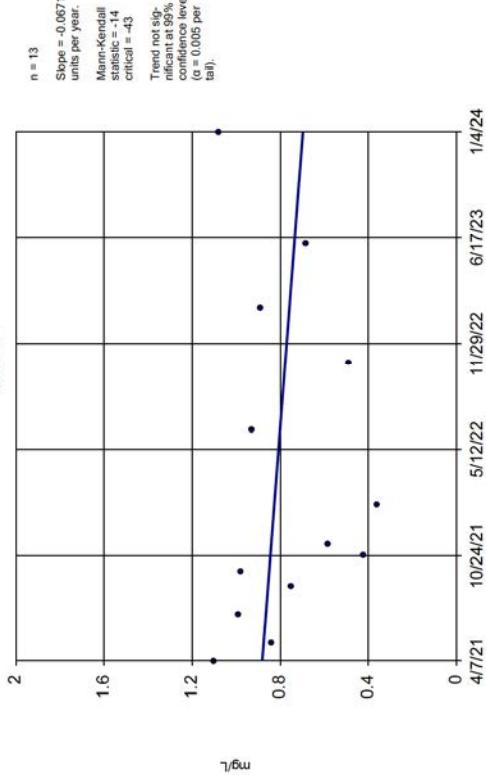


Constituent: Chloride
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Fluoride
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

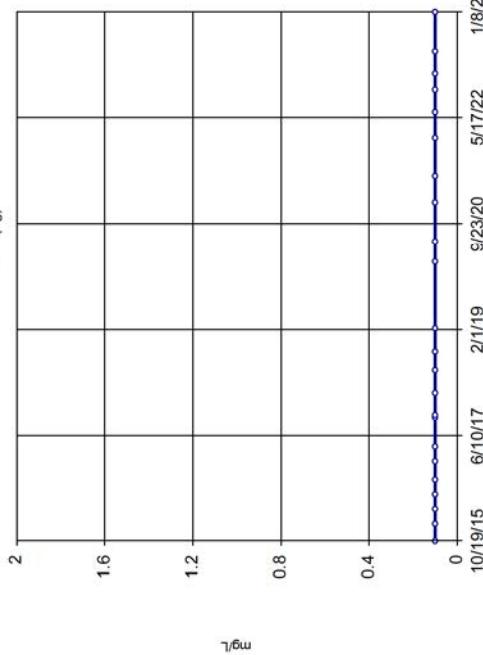
Sen's Slope Estimator
CGYP-1Sen's Slope Estimator
CGYP-2Sen's Slope Estimator
CGYP-3Sen's Slope Estimator
CGYP-4

Sen's Slope Estimator CGYP-6



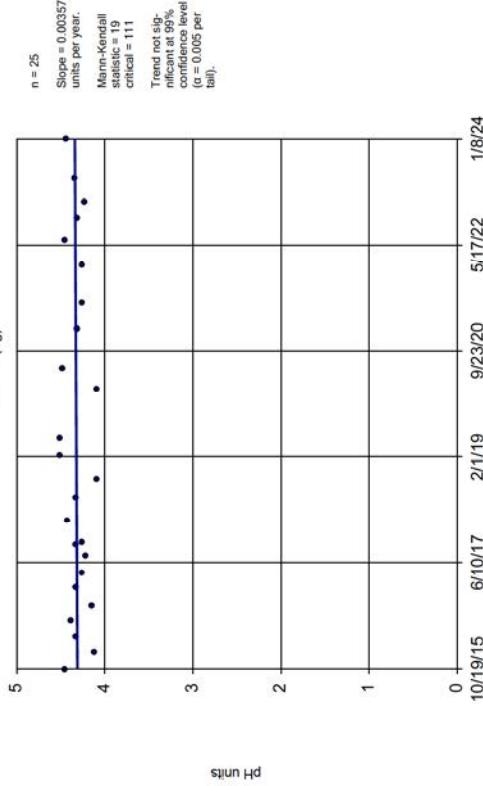
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator PM-1 (bg)



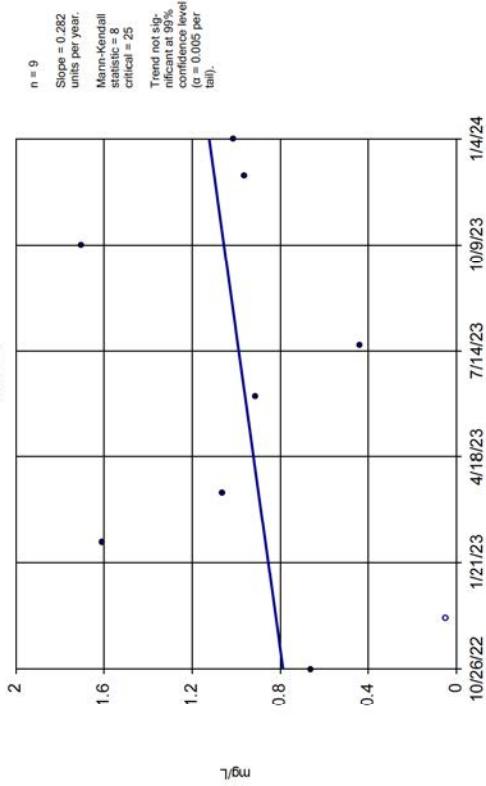
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Analysis Run 4/4/2024 2:17 PM
View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CBW-1 (bg)



Constituent: Fluoride
Analysis Run 4/4/2024 2:17 PM
View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-7

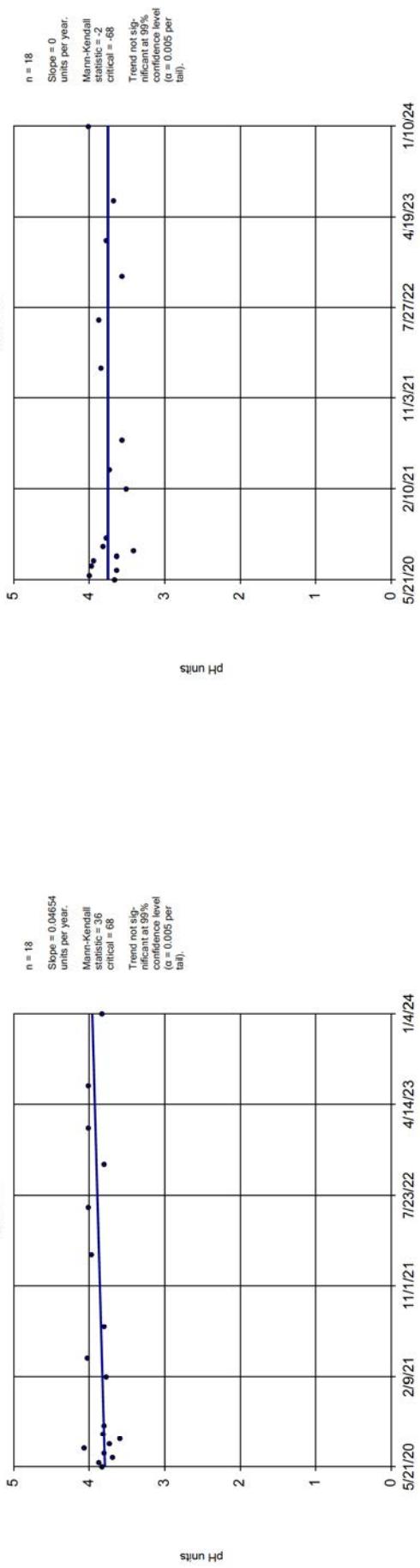


Constituent: Fluoride
Analysis Run 4/4/2024 2:17 PM
View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: pH, Field Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

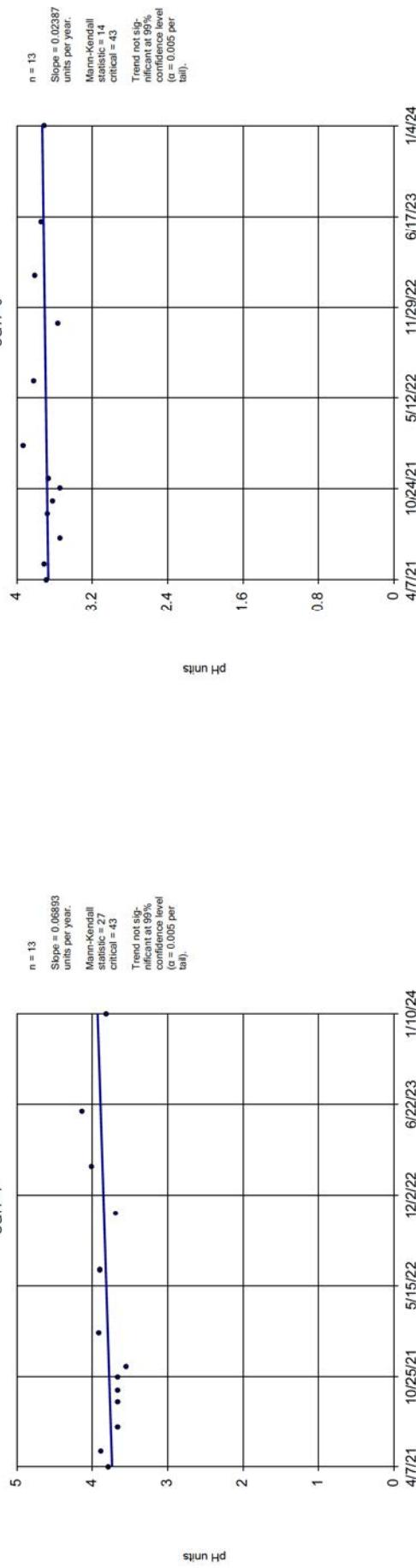
Constituent: Fluoride Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-2



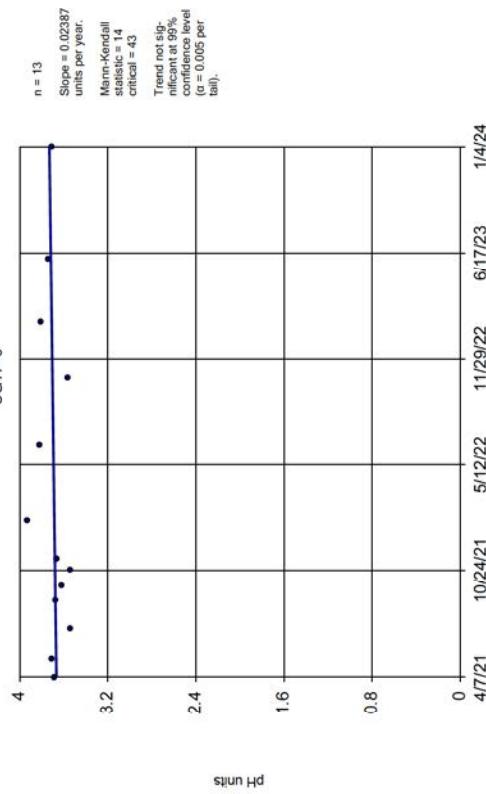
Constituent: pH Field Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4



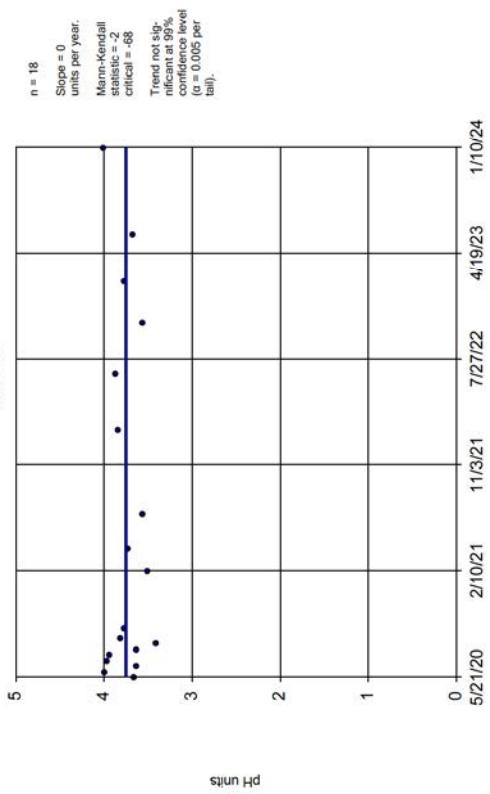
Constituent: pH Field Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-6



Constituent: pH Field Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

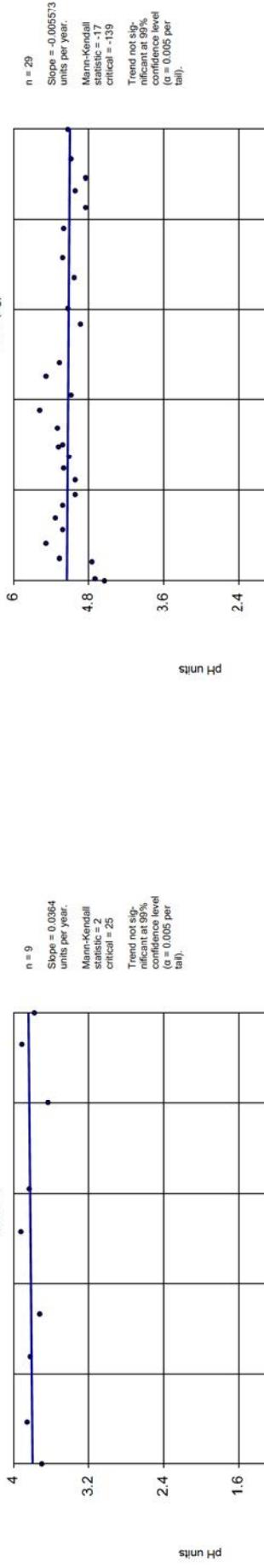
Sen's Slope Estimator CGYP-3



Constituent: pH Field Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator

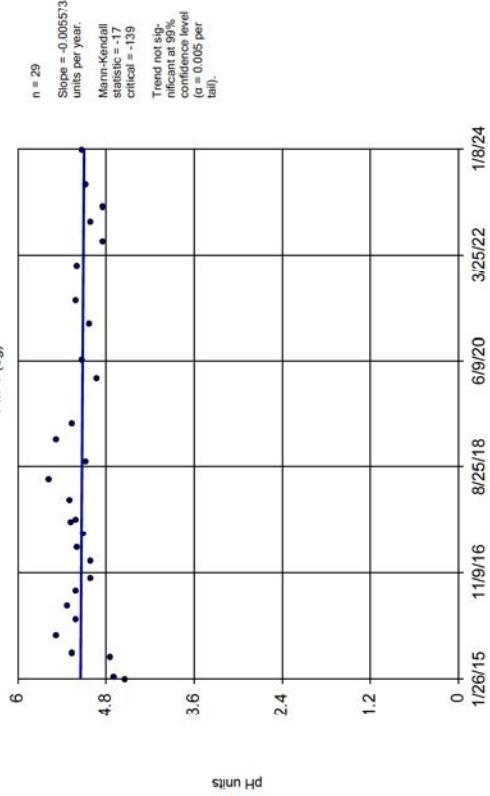
CGYP-7



Constituent: pH, Field Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator

PM-1 (bg)





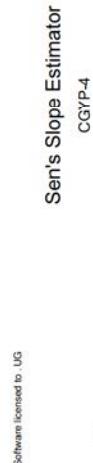
Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

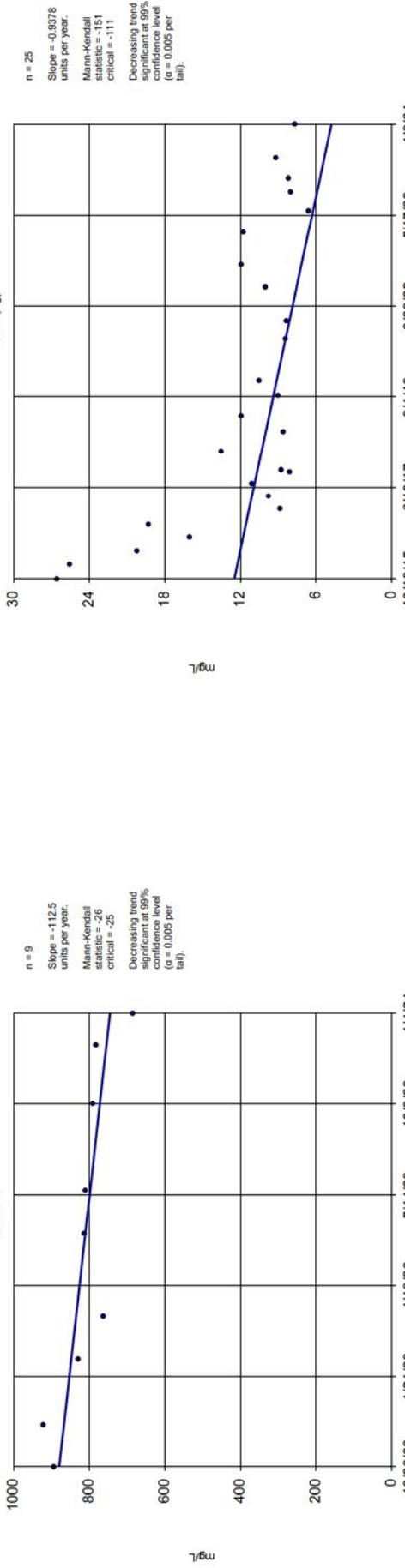


Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Sulfate
Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

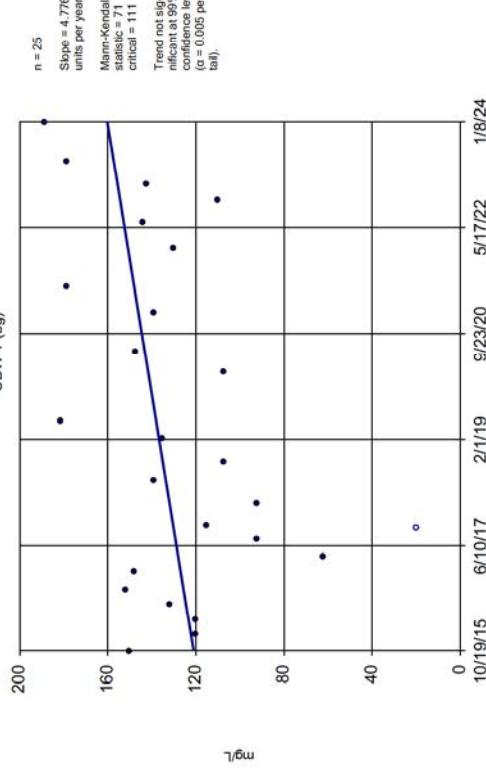
Sen's Slope Estimator CGYP-7



Constituent: Sulfate
CGYP Client: Santee Cooper Data: CGYP
Analysis Run 4/4/2024 2:17 PM View: Trend Tests

Santast™ v.10.0.16b Software licensed to: UG
Hollow symbols indicate censored values.

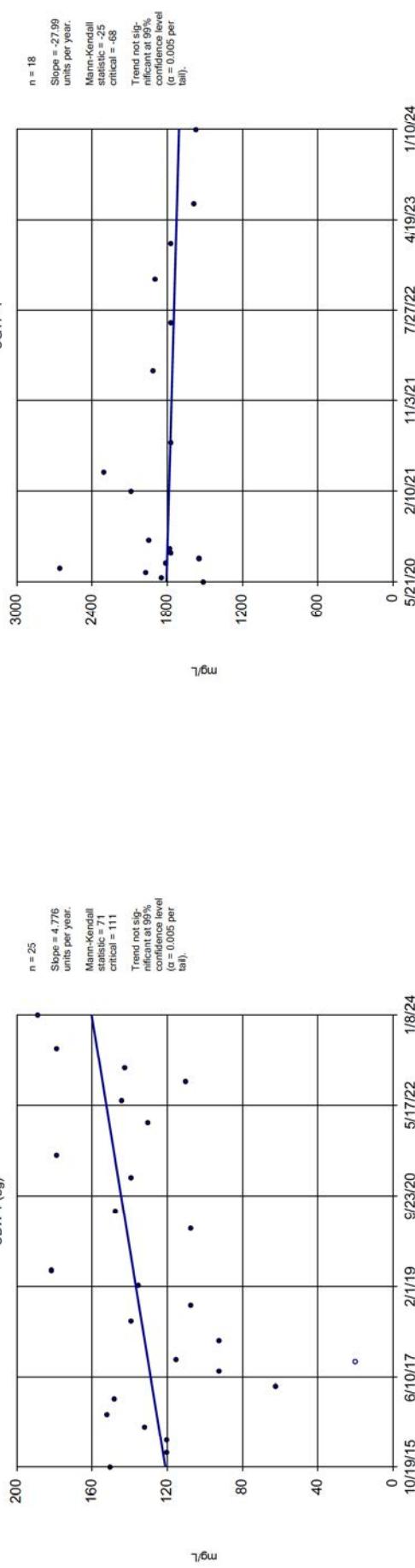
Sen's Slope Estimator CBW-1 (bg)



Constituent: Total Dissolved Solids
CGYP Client: Santee Cooper Data: CGYP
Analysis Run 4/4/2024 2:17 PM View: Trend Tests

Santast™ v.10.0.16b Software licensed to: UG
Hollow symbols indicate censored values.

Sen's Slope Estimator CBW-1 (bg)



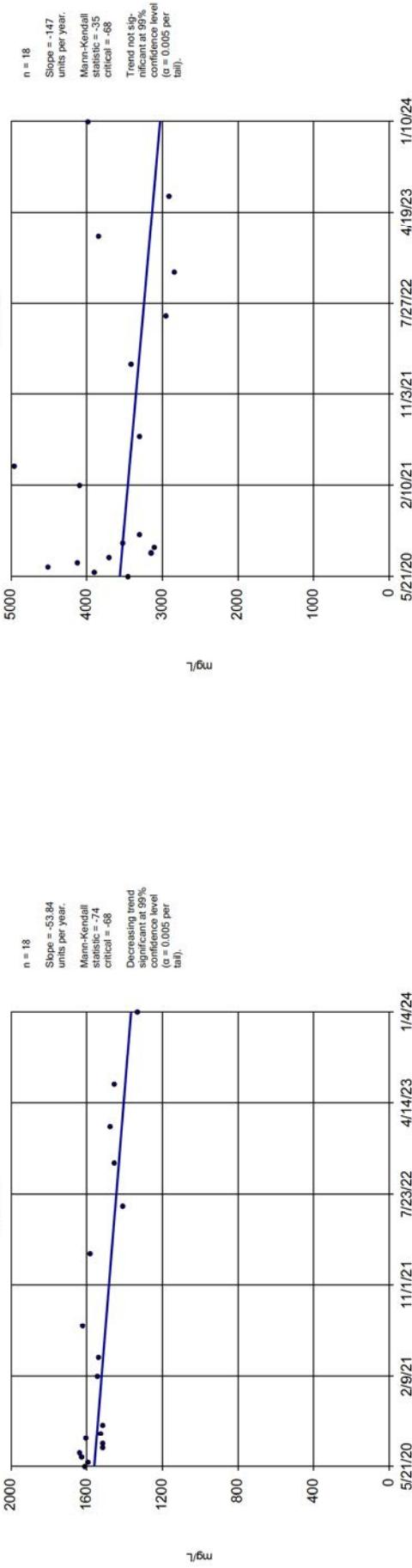
Constituent: Total Dissolved Solids
CGYP Client: Santee Cooper Data: CGYP
Analysis Run 4/4/2024 2:17 PM View: Trend Tests

Santast™ v.10.0.16b Software licensed to: UG
Hollow symbols indicate censored values.

Constituent: Sulfate
CGYP Client: Santee Cooper Data: CGYP
Analysis Run 4/4/2024 2:17 PM View: Trend Tests

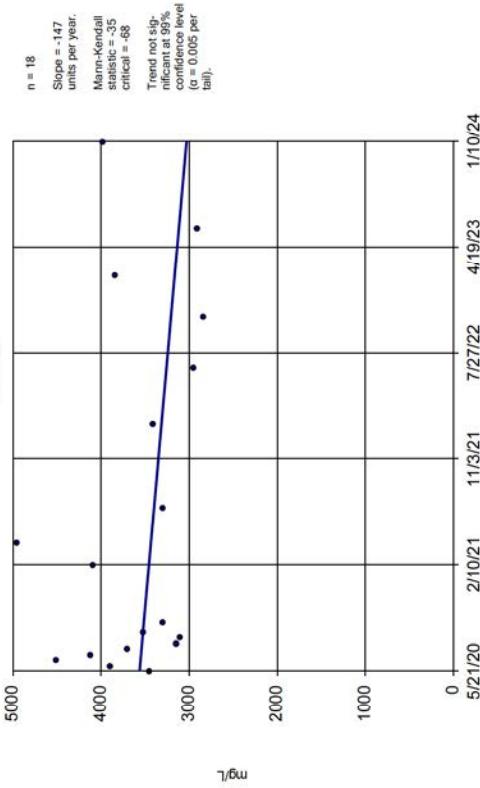
Constituent: Total Dissolved Solids
CGYP Client: Santee Cooper Data: CGYP
Analysis Run 4/4/2024 2:17 PM View: Trend Tests

Sen's Slope Estimator CGYP-2



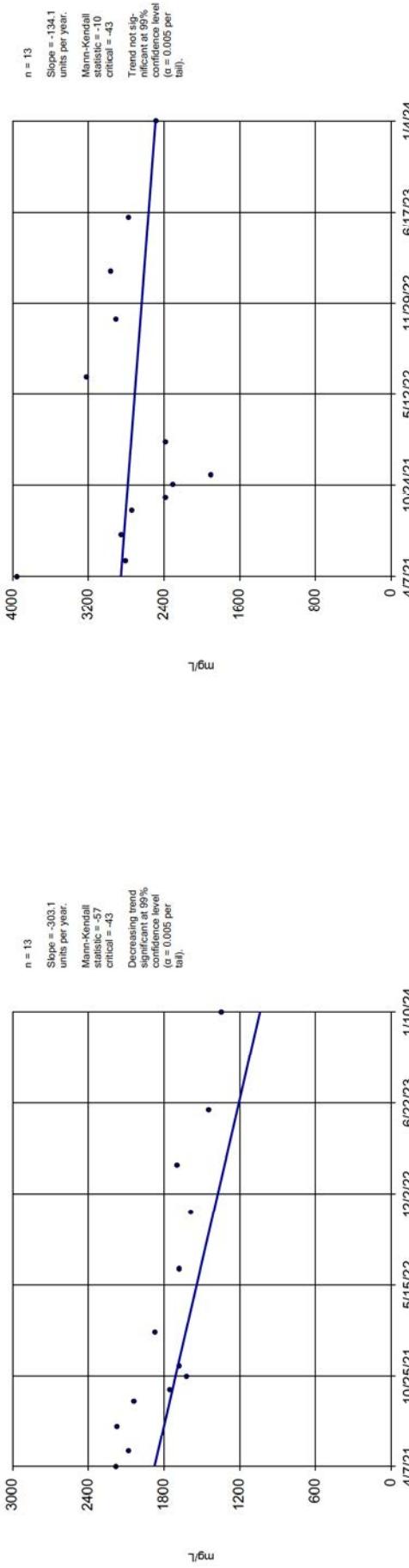
Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM
CGYP Client: Santee Cooper Data: CGYP
View: Trend Tests

Sen's Slope Estimator CGYP-3



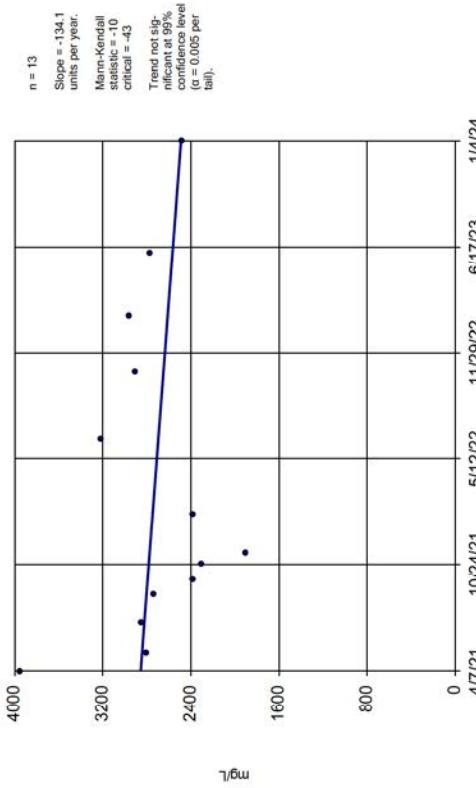
Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM
CGYP Client: Santee Cooper Data: CGYP
View: Trend Tests

Sen's Slope Estimator CGYP-4



Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM
CGYP Client: Santee Cooper Data: CGYP
View: Trend Tests

Sen's Slope Estimator CGYP-6

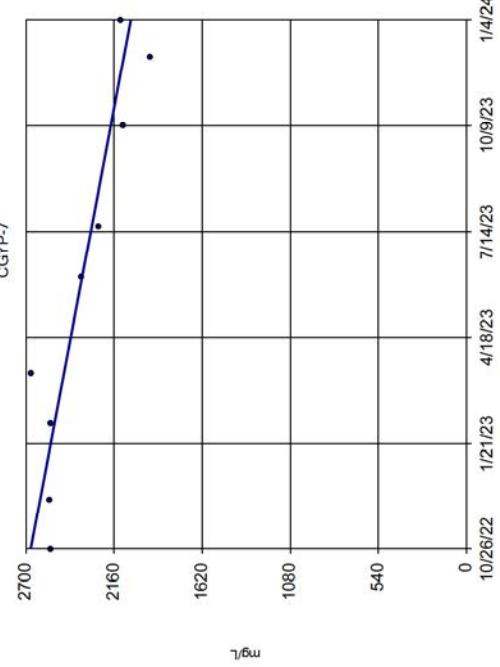


Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM
CGYP Client: Santee Cooper Data: CGYP
View: Trend Tests

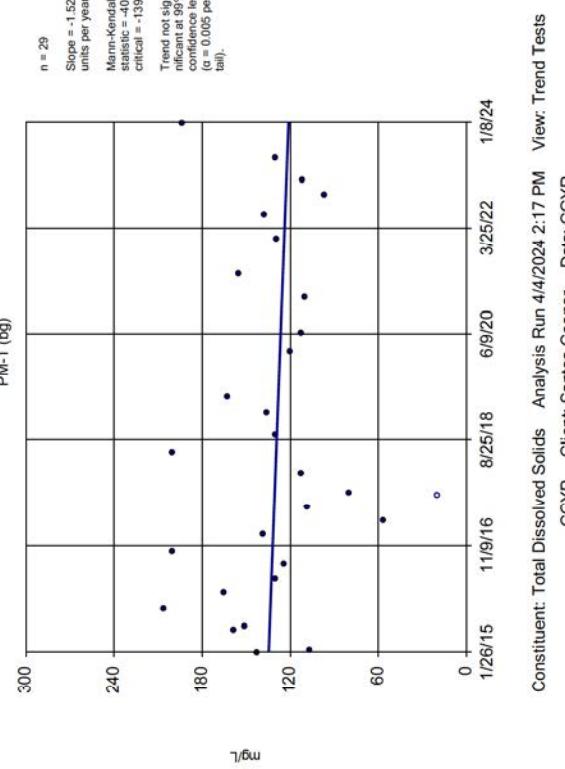
Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM
CGYP Client: Santee Cooper Data: CGYP
View: Trend Tests

Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM
CGYP Client: Santee Cooper Data: CGYP
View: Trend Tests

Sen's Slope Estimator



Sen's Slope Estimator



Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 4/4/2024 2:17 PM View: Trend Tests
CGYP Client: Santee Cooper Data: CGYP

FIGURE F.

CYGP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.025	0.025
Arsenic, Total (mg/L)	0.01		0.016	0.016
Barium, Total (mg/L)	2		0.103	2
Beryllium, Total (mg/L)	0.004		0.00063	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.014	0.1
Cobalt, Total (mg/L)		0.006	0.0034	0.006
Combined Radium 226 + 228 (pCi/L)	5		16.3	16.3
Fluoride, Total (mg/L)	4		0.3	4
Lead, Total (mg/L)		0.015	0.011	0.015
Lithium, Total (mg/L)		0.04	0.01	0.04
Mercury, Total (mg/L)	0.002		0.0006	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.02	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*GWPS = Groundwater Protection Standard

*MCL = Maximum Contaminant Limit

*CCR = Coal Combustion Residuals

Shaded cells indicate background limit is higher than established MCL.

FIGURE G.

Appendix IV Confidence Intervals - Significant Results

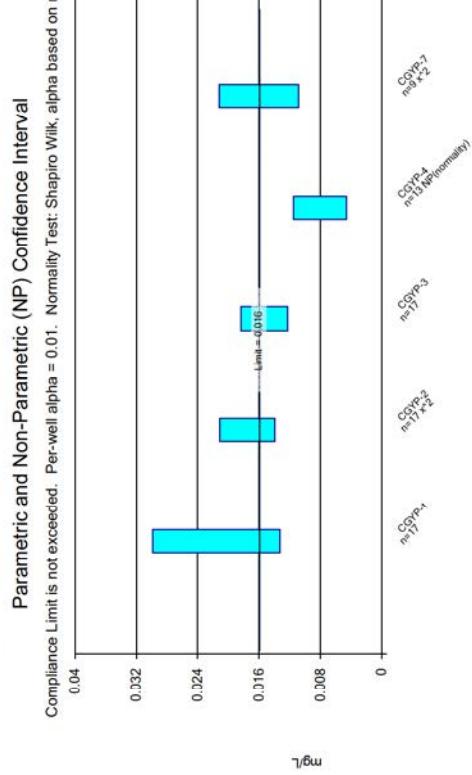
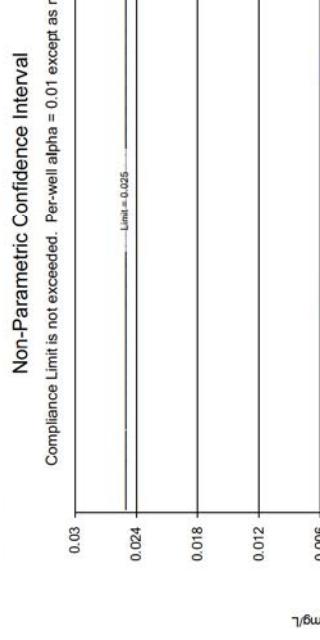
CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:24 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CGYP-1	0.011	0.0058	0.004	Yes	17	0.008252	0.002954	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-3	0.03803	0.02624	0.004	Yes	17	0.03214	0.009415	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01724	0.01379	0.004	Yes	13	0.01552	0.002322	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02667	0.02096	0.004	Yes	13	0.02382	0.003838	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01134	0.006568	0.004	Yes	9	0.008952	0.002469	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-1	0.04933	0.0343	0.006	Yes	17	0.04181	0.01199	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.019	0.006	Yes	17	0.02327	0.008721	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1323	0.08617	0.006	Yes	17	0.1092	0.03681	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04859	0.03339	0.006	Yes	13	0.0401	0.01186	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.1651	0.1326	0.006	Yes	13	0.1488	0.02185	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.09336	0.04155	0.006	Yes	9	0.06746	0.02683	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-2	0.02416	0.01891	0.015	Yes	17	0.02109	0.005246	5.882	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.02927	0.02123	0.015	Yes	16	0.02525	0.006183	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-7	0.04705	0.02995	0.015	Yes	9	0.0385	0.008854	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-3	0.09508	0.05834	0.04	Yes	17	0.07671	0.02932	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-4	0.06747	0.05169	0.04	Yes	13	0.05958	0.01061	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1616	0.1179	0.04	Yes	13	0.1398	0.02941	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

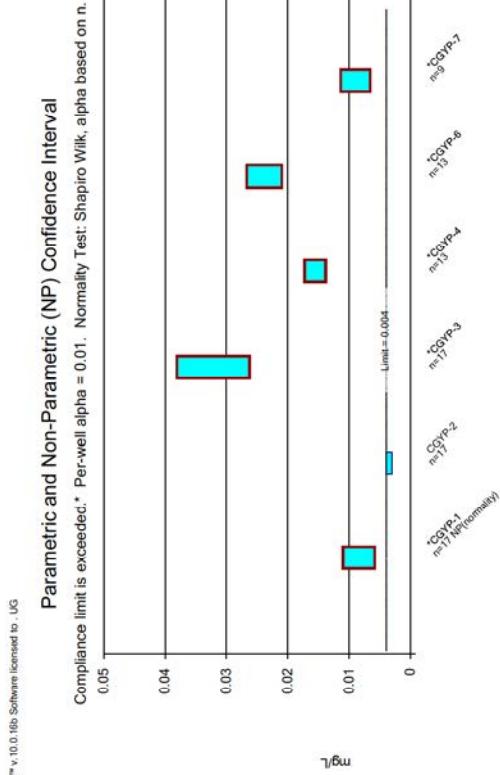
CGYP Client: Santee Cooper Data: CGYP Printed 4/4/2024, 2:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	CGYP-6	0.0053	0.005	0.025	No	13	0.005023	0.00008321	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	CGYP-7	0.0058	0.005	0.025	No	9	0.005089	0.0002667	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	CGYP-1	0.02985	0.01329	0.016	No	17	0.02157	0.01321	5.882	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-2	0.0211	0.0139	0.016	No	17	0.01651	0.007042	11.76	None	x^2	0.01	Param.
Arsenic (mg/L)	CGYP-3	0.01838	0.01226	0.016	No	17	0.01532	0.004889	5.882	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-4	0.0115	0.00462	0.016	No	13	0.008428	0.003053	7.692	None	No	0.01	NP (normality)
Arsenic (mg/L)	CGYP-7	0.02122	0.01088	0.016	No	9	0.01582	0.006178	0	None	x^2	0.01	Param.
Barium (mg/L)	CGYP-1	0.05462	0.0378	2	No	17	0.04675	0.01423	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	CGYP-2	0.03172	0.01644	2	No	17	0.02408	0.0122	5.882	None	No	0.01	Param.
Barium (mg/L)	CGYP-3	0.0486	0.03371	2	No	17	0.04115	0.01188	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-4	0.03749	0.0268	2	No	13	0.03215	0.007191	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-6	0.5896	0.2573	2	No	13	0.4235	0.2235	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-7	0.02891	0.02098	2	No	9	0.02488	0.004632	0	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-1	0.011	0.0058	0.004	Yes	17	0.008252	0.002954	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-2	0.004007	0.002999	0.004	No	17	0.003503	0.0008037	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-3	0.03803	0.02624	0.004	Yes	17	0.03214	0.009415	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01724	0.01379	0.004	Yes	13	0.01552	0.002322	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02667	0.02096	0.004	Yes	13	0.02382	0.003838	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01134	0.006568	0.004	Yes	9	0.008952	0.002469	0	None	No	0.01	Param.
Cadmium (mg/L)	CGYP-1	0.0013	0.0005	0.005	No	17	0.0006471	0.0004446	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-2	0.001	0.0005	0.005	No	17	0.0005824	0.000243	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-3	0.0008	0.0005	0.005	No	17	0.0007435	0.0003899	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	CGYP-4	0.0008	0.0005	0.005	No	13	0.0005231	0.00008321	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-6	0.0006	0.0005	0.005	No	13	0.0005077	0.00002774	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-7	0.0032	0.0005	0.005	No	9	0.001228	0.00111	44.44	None	No	0.002	NP (normality)
Chromium (mg/L)	CGYP-3	0.006859	0.005489	0.1	No	17	0.006188	0.0012	17.65	Kaplan-Meier	In(x)	0.01	Param.
Chromium (mg/L)	CGYP-6	0.0061	0.005	0.1	No	13	0.005085	0.0003051	92.31	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	CGYP-1	0.04933	0.0343	0.006	Yes	17	0.04181	0.01199	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.019	0.006	Yes	17	0.02327	0.008721	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1323	0.08617	0.006	Yes	17	0.1092	0.03681	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04859	0.03339	0.006	Yes	13	0.0401	0.01186	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.1651	0.1326	0.006	Yes	13	0.1488	0.02185	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.09336	0.04155	0.006	Yes	9	0.06746	0.02683	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-1	4.487	3.264	16.3	No	17	3.909	1.04	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-2	3.08	1.958	16.3	No	17	2.563	0.9594	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-3	6.176	4.549	16.3	No	17	5.363	1.298	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-4	5.35	3.198	16.3	No	13	4.274	1.447	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-6	6.996	3.568	16.3	No	13	5.282	2.305	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pcil/l)	CGYP-7	6.831	4.247	16.3	No	9	5.539	1.338	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-1	1.148	0.8051	4	No	18	0.9767	0.2836	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-2	1.012	0.5107	4	No	18	0.7611	0.4139	11.11	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-3	3.034	1.164	4	No	18	2.099	1.545	5.556	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-4	2.138	1.058	4	No	13	1.598	0.7264	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-6	0.9627	0.5896	4	No	13	0.7762	0.2509	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-7	1.436	0.4308	4	No	9	0.9333	0.5205	11.11	None	No	0.01	Param.
Lead (mg/L)	CGYP-1	0.01529	0.005765	0.015	No	17	0.01132	0.008498	5.882	None	sqrt(x)	0.01	Param.
Lead (mg/L)	CGYP-2	0.02416	0.01891	0.015	Yes	17	0.02109	0.005246	5.882	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.02927	0.02123	0.015	Yes	16	0.02525	0.006183	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-4	0.01385	0.009479	0.015	No	13	0.01166	0.002938	7.692	None	No	0.01	Param.
Lead (mg/L)	CGYP-6	0.01366	0.007788	0.015	No	13	0.01072	0.003947	7.692	None	No	0.01	Param.
Lead (mg/L)	CGYP-7	0.04705	0.02995	0.015	Yes	9	0.0385	0.008854	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-1	0.02007	0.01116	0.04	No	17	0.01641	0.006979	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	CGYP-2	0.015	0.005	0.04	No	17	0.01121	0.00441	29.41	None	No	0.01	NP (normality)
Lithium (mg/L)	CGYP-3	0.09508	0.05834	0.04	Yes	17	0.07671	0.02932	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-4	0.06747	0.05169	0.04	Yes	13	0.05958	0.01061	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1616	0.1179	0.04	Yes	13	0.1398	0.02941	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-7	0.05	0.00732	0.04	No	9	0.01965	0.01738	22.22	None	No	0.002	NP (normality)
Mercury (mg/L)	CGYP-1	0.0002	0.0002	0.002	No	17	0.0002	1.2e-12	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	CGYP-3	0.00021	0.0002	0.002	No	17	0.0002182	0.00006531	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-1	0.0166	0.01	0.05	No	17	0.01288	0.004612	64.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-2	0.0113	0.0078	0.05	No	17	0.01118	0.004241	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-3	0.014	0.0067	0.05	No	17	0.01057	0.002529	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-4	0.01	0.00856	0.05	No	13	0.009889	0.0003994	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-7	0.0558	0.002	0.05	No	9	0.0182	0.01888	66.67	None	No	0.002	NP (NDs)



Constituent: Antimony Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

Constituent: Arsenic Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

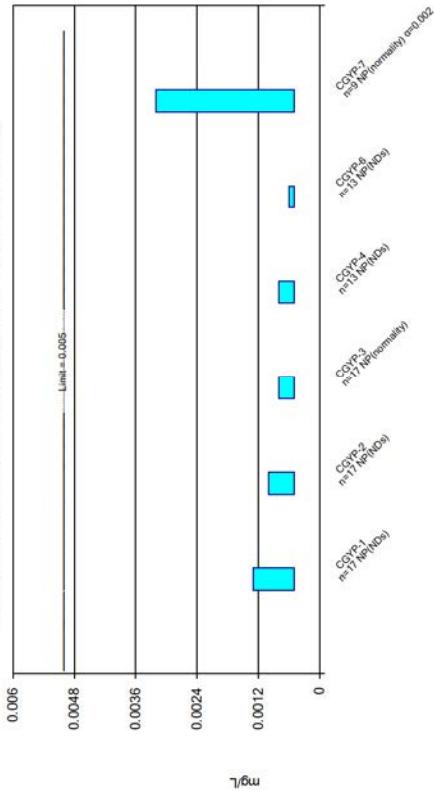


Constituent: Barium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

Constituent: Beryllium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

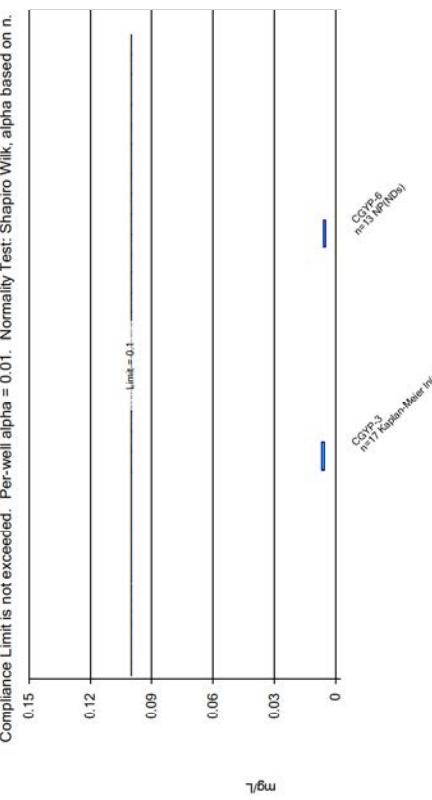
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

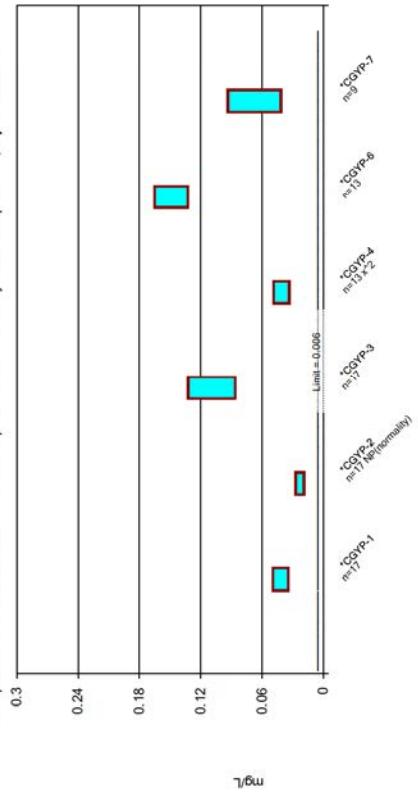


Constituent: Cobalt Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

Constituent: Chromium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

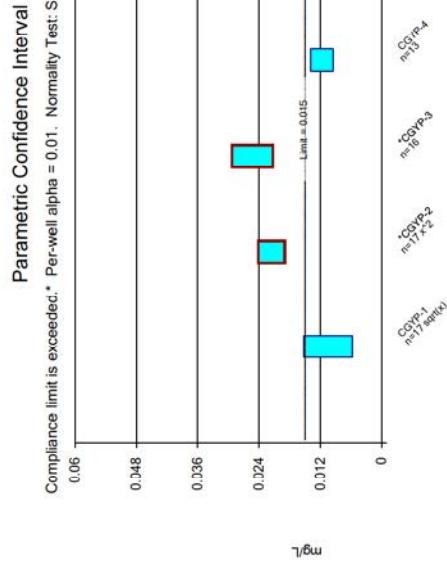
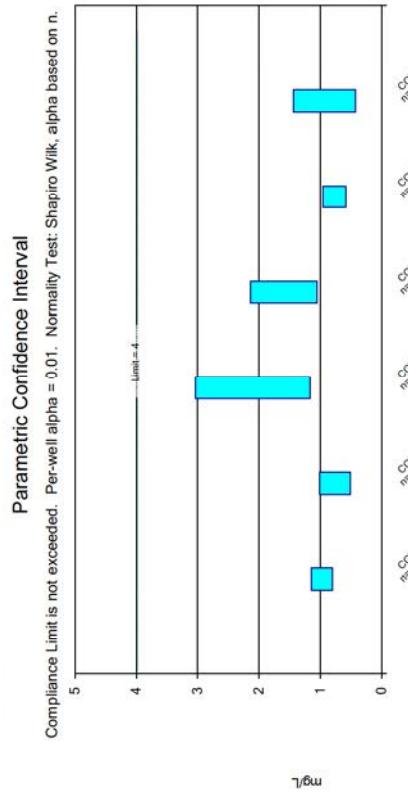
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

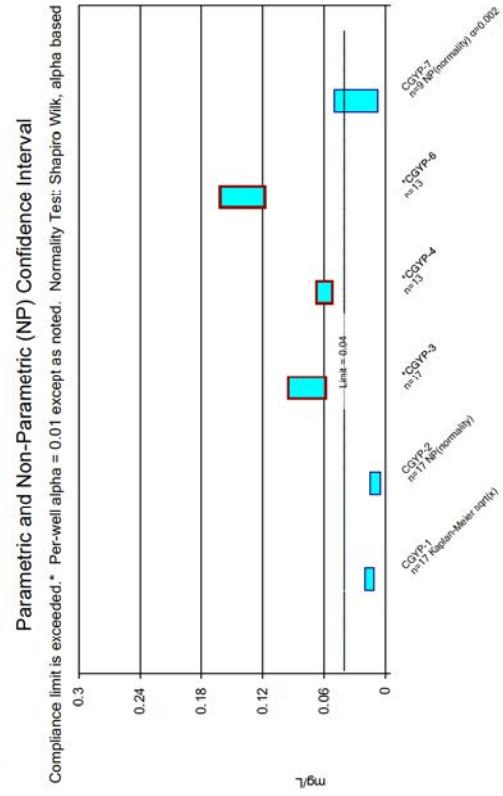
Constituent: Cobalt Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP



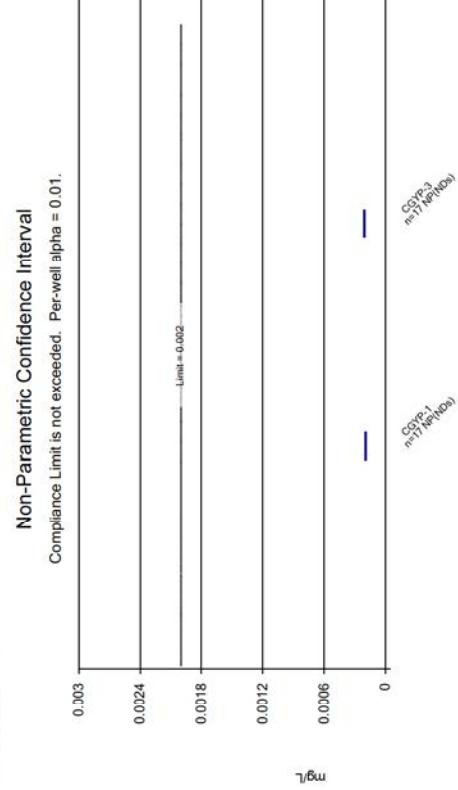
Santast™ v.10.0.16b Software licensed to: UG



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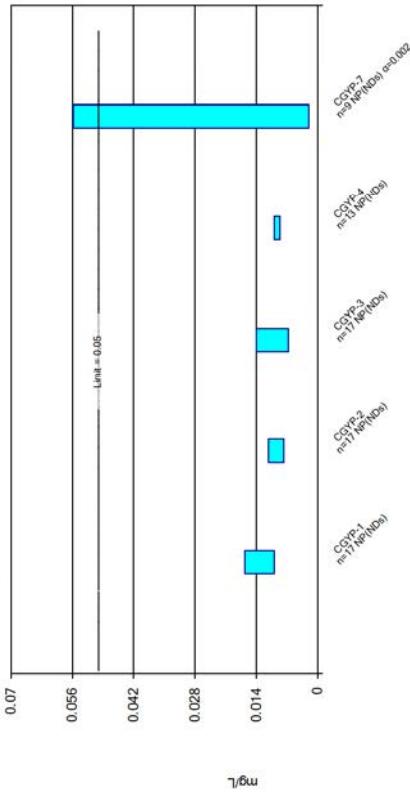
Constituent: Mercury Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lithium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lithium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 4/4/2024 2:22 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

	CGYP-6	CGYP-7
4/7/2021	<0.005	
5/13/2021	<0.005	
7/8/2021	<0.005	
8/31/2021	<0.005	
9/27/2021	<0.005	
10/26/2021	<0.005	
11/17/2021	<0.005	
1/31/2022	<0.005	
6/21/2022	<0.005	
10/25/2022	<0.005	
10/26/2022		<0.005
12/7/2022		<0.005
2/7/2023	<0.005	<0.005
3/20/2023		<0.005
6/7/2023	<0.005	<0.005
7/19/2023		<0.005
10/10/2023		0.0058
12/5/2023		<0.005
1/4/2024	0.0053	<0.005
Mean	0.005023	0.005089
Std. Dev.	8.321E-05	0.0002667
Upper Lim.	0.0053	0.0058
Lower Lim.	0.005	0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-7
5/21/2020	0.0171	0.029	0.0169		
6/4/2020	0.037	0.0167	0.0138		
6/18/2020	0.0406	0.0197	0.0215		
7/1/2020	0.0407		0.0179		
7/2/2020		0.0191			
7/16/2020	0.0165	0.0217	0.017		
7/30/2020	0.014	0.0214	0.0171		
8/13/2020	0.0175	0.0214	0.0176		
8/27/2020	0.0278	0.0204	0.015		
2/10/2021	0.0452	0.0184	0.022		
4/7/2021	0.0336	0.0169	0.0198	0.0103	
5/13/2021				0.0105	
7/7/2021	0.0181	0.0194	0.0183		
7/8/2021			0.0113		
9/1/2021			0.0115		
9/27/2021			0.0118		
10/26/2021			0.0104		
11/17/2021			0.0112		
1/31/2022	0.0146	0.0165	0.0169	0.008	
6/21/2022	<0.01	<0.003	<0.01	<0.01	
10/25/2022		<0.003	0.007	0.0041	
10/26/2022	0.00472			0.006	
12/7/2022				0.0061	
2/6/2023		0.00922	0.00795	0.00462	
2/7/2023	0.00956			0.0142	
3/20/2023				0.0168	
6/6/2023	0.00835				
6/7/2023		0.0131	0.0114	0.00514	0.0221
7/19/2023					0.0152
10/10/2023					0.0212
12/5/2023					0.0206
1/4/2024		0.0147			0.0202
1/10/2024	0.0163		0.0153	0.0057	
Mean	0.02157	0.01651	0.01532	0.008428	0.01582
Std. Dev.	0.01321	0.007042	0.004889	0.003053	0.006178
Upper Lim.	0.02985	0.0211	0.01838	0.0115	0.02122
Lower Lim.	0.01329	0.0139	0.01226	0.00462	0.01088

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.0899	0.024	0.0621			
6/4/2020	0.0447	0.0378	0.0582			
6/18/2020	0.0403	0.0445	0.0502			
7/1/2020	0.0426		0.0547			
7/2/2020		0.0439				
7/16/2020	0.0574	0.0274	0.0444			
7/30/2020	0.0575	0.0316	0.0437			
8/13/2020	0.0517	0.0289	0.0431			
8/27/2020	0.0447	0.0407	0.0459			
2/10/2021	0.0397	0.021	0.0405			
4/7/2021	0.0448	0.0145	0.0384	0.0454	0.326	
5/13/2021				0.0375	0.437	
7/7/2021	0.0522	0.0178	0.0378			
7/8/2021			0.0395	0.555		
8/31/2021				0.564		
9/1/2021			0.0364			
9/27/2021			0.0371	0.705		
10/26/2021			0.0336	0.529		
11/17/2021			0.0333	0.865		
1/31/2022	0.0301	0.0125	0.0246	0.025	0.258	
6/21/2022	0.023	<0.01	0.017	0.019	0.29	
10/25/2022		0.0183	0.0422	0.0306	0.465	
10/26/2022	0.0469				0.0281	
12/7/2022					0.0248	
2/6/2023		0.0171	0.034	0.0286		
2/7/2023	0.0391				0.159	0.0283
3/20/2023						0.0292
6/6/2023	0.0392					
6/7/2023		0.00976	0.0243	0.0255	0.204	0.0147
7/19/2023						0.0271
10/10/2023						0.0258
12/5/2023						0.0256
1/4/2024		0.0146			0.118	0.0203
1/10/2024	0.0509		0.0385	0.0264		
Mean	0.04675	0.02408	0.04115	0.03215	0.4235	0.02488
Std. Dev.	0.01423	0.0122	0.01188	0.007191	0.2235	0.004632
Upper Lim.	0.05462	0.03172	0.0486	0.03749	0.5896	0.02891
Lower Lim.	0.0378	0.01644	0.03371	0.0268	0.2573	0.02098

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals
 CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.0058	0.0053	0.0283			
6/4/2020	0.0098	0.0034	0.0367			
6/18/2020	0.0109	0.0034	0.037			
7/1/2020	0.011		0.0468			
7/2/2020		0.0044				
7/16/2020	0.0045	0.0034	0.0252			
7/30/2020	0.004	0.0035	0.022			
8/13/2020	0.0061	0.0036	0.022			
8/27/2020	0.009	0.0034	0.0318			
2/10/2021	0.0127	0.0025	0.035			
4/7/2021	0.0103	0.0031	0.0465	0.0174	0.0277	
5/13/2021				0.0164	0.0239	
7/7/2021	0.0061	0.0028	0.0269			
7/8/2021				0.0179	0.0212	
8/31/2021					0.0197	
9/1/2021				0.015		
9/27/2021				0.0156	0.0219	
10/26/2021				0.0152	0.0214	
11/17/2021				0.0149	0.0194	
1/31/2022	0.0112	0.004	0.0339	0.0166	0.0237	
6/21/2022	0.006	0.003	0.017	0.013	0.019	
10/25/2022		0.0043	0.0345	0.0188	0.027	
10/26/2022	0.0112				0.0117	
12/7/2022					0.0116	
2/6/2023		0.00424	0.0497	0.0162		
2/7/2023	0.011				0.0313	0.0116
3/20/2023						0.00944
6/6/2023	0.00398					
6/7/2023		0.00341	0.0221	0.0151	0.0279	0.00791
7/19/2023						0.00982
10/10/2023						0.0072
12/5/2023						0.006
1/4/2024		0.0018			0.0255	0.0053
1/10/2024	0.0067		0.0309	0.0096		
Mean	0.008252	0.003503	0.03214	0.01552	0.02382	0.008952
Std. Dev.	0.002954	0.0008037	0.009415	0.002322	0.003838	0.002469
Upper Lim.	0.011	0.004007	0.03803	0.01724	0.02667	0.01134
Lower Lim.	0.0058	0.002999	0.02624	0.01379	0.02096	0.006568

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals
 CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	<0.0005	<0.0005	0.00062			
6/4/2020	<0.0005	<0.0005	0.0008			
6/18/2020	<0.0005	<0.0005	0.00074			
7/1/2020	<0.0005		0.0009			
7/2/2020		<0.0005				
7/16/2020	<0.0005	<0.0005	0.00061			
7/30/2020	<0.0005	<0.0005	<0.0005			
8/13/2020	<0.0005	<0.0005	<0.0005			
8/27/2020	<0.0005	<0.0005	0.00076			
2/10/2021	<0.0005	<0.0005	0.00078			
4/7/2021	<0.0005	<0.0005	0.00053	<0.0005	<0.0005	
5/13/2021				<0.0005	<0.0005	
7/7/2021	<0.0005	<0.0005	<0.0005			
7/8/2021				<0.0005	<0.0005	
8/31/2021					<0.0005	
9/1/2021				<0.0005		
9/27/2021				<0.0005	<0.0005	
10/26/2021				<0.0005	<0.0005	
11/17/2021				<0.0005	<0.0005	
1/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/21/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/25/2022		0.0014	0.0019	0.0008	0.0006	
10/26/2022	0.0022				0.0032	
12/7/2022					0.003	
2/6/2023		0.001	0.0015	<0.0005		
2/7/2023	0.0013				<0.0005	0.0015
3/20/2023						0.00079
6/6/2023	<0.0005					
6/7/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/19/2023						0.00056
10/10/2023						<0.0005
12/5/2023						<0.0005
1/4/2024		<0.0005			<0.0005	<0.0005
1/10/2024	<0.0005		<0.0005	<0.0005		
Mean	0.0006471	0.0005824	0.0007435	0.0005231	0.0005077	0.001228
Std. Dev.	0.0004446	0.000243	0.0003899	8.321E-05	2.774E-05	0.00111
Upper Lim.	0.0013	0.001	0.0008	0.0008	0.0006	0.0032
Lower Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

	CGYP-3	CGYP-6
5/21/2020	0.0058	
6/4/2020	0.0067	
6/18/2020	0.0063	
7/1/2020	0.0052	
7/16/2020	0.0053	
7/30/2020	0.0055	
8/13/2020	0.0056	
8/27/2020	0.0059	
2/10/2021	<0.005	
4/7/2021	0.0061	<0.005
5/13/2021		<0.005
7/7/2021	0.0079	
7/8/2021		<0.005
8/31/2021		<0.005
9/27/2021		<0.005
10/26/2021		<0.005
11/17/2021		<0.005
1/31/2022	<0.005	<0.005
6/21/2022	<0.005	<0.005
10/25/2022	0.009	<0.005
2/6/2023	0.0073	
2/7/2023		<0.005
6/7/2023	0.008	<0.005
1/4/2024		0.0061
1/10/2024	0.0056	
Mean	0.006188	0.005085
Std. Dev.	0.0012	0.0003051
Upper Lim.	0.006859	0.0061
Lower Lim.	0.005489	0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.0448	0.0506	0.115			
6/4/2020	0.0479	0.0199	0.13			
6/18/2020	0.0492	0.0229	0.152			
7/1/2020	0.0548		0.154			
7/2/2020		0.025				
7/16/2020	0.0353	0.027	0.113			
7/30/2020	0.032	0.028	0.0966			
8/13/2020	0.0371	0.0294	0.0936			
8/27/2020	0.0467	0.0244	0.117			
2/10/2021	0.0587	0.019	0.151			
4/7/2021	0.0536	0.0183	0.143	0.0532	0.163	
5/13/2021				0.0498	0.149	
7/7/2021	0.0362	0.0206	0.0967			
7/8/2021				0.0494	0.147	
8/31/2021					0.15	
9/1/2021				0.0487		
9/27/2021				0.0478	0.157	
10/26/2021				0.0463	0.158	
11/17/2021				0.0461	0.128	
1/31/2022	0.00931	0.00644	0.0504	0.0168	0.114	
6/21/2022	0.033	0.018	0.055	0.033	0.117	
10/25/2022		0.0215	0.0956	0.0415	0.156	
10/26/2022	0.0523				0.0797	
12/7/2022					0.0752	
2/6/2023		0.0227	0.141	0.0399		
2/7/2023	0.048				0.198	0.107
3/20/2023						0.0994
6/6/2023	0.0315					
6/7/2023		0.0224	0.0311	0.0199	0.138	0.0178
7/19/2023						0.0615
10/10/2023						0.0604
12/5/2023						0.0535
1/4/2024		0.0194			0.16	0.0526
1/10/2024	0.0404		0.122	0.0289		
Mean	0.04181	0.02327	0.1092	0.0401	0.1488	0.06746
Std. Dev.	0.01199	0.008721	0.03681	0.01186	0.02185	0.02683
Upper Lim.	0.04933	0.027	0.1323	0.04859	0.1651	0.09336
Lower Lim.	0.0343	0.019	0.08617	0.03339	0.1326	0.04155

Confidence Interval

Constituent: Combined Radium 226 & 228 (pci/l) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	3.97	1.34	5.59			
6/4/2020	3.96	2.14	4.18			
6/18/2020	3.79	2.61	5.24			
7/1/2020	5.58		3.26			
7/2/2020		2.13				
7/16/2020	3.65	2.46	5.25			
7/30/2020	2.93	2.15	7.74			
8/13/2020	3.07	1.91	5.99			
8/27/2020	2.64	1.3	5.2			
2/10/2021	3.86	2.83	4.69			
4/7/2021	3.89	4.18	7.93	6.37	3.68	
5/13/2021				5.84	6.31	
7/7/2021	2.77	2.5	5.03			
7/8/2021				3.56	6.08	
8/31/2021					5.53	
9/1/2021				4.64		
9/27/2021				5.29	7.93	
10/26/2021				5.56	6.48	
11/17/2021				4.9	9.69	
1/31/2022	6.81	3.4	6.17	4.85	3.44	
6/21/2022	4.28	2.39	5.36	3.24	4.3	
10/25/2022		5.12	6.68	3.77	6.17	
10/26/2022	3.53					6.04
12/7/2022						5.82
2/6/2023		2.52	4.18	1.81		
2/7/2023	3.13				2.08	5.27
3/20/2023						7.77
6/6/2023	3.94					
6/7/2023		1.77	5.33	1.67	5.69	6.6
7/19/2023						3.55
10/10/2023						3.58
12/5/2023						5.52
1/4/2024		2.827			1.282	5.704
1/10/2024	4.66		3.349	4.06		
Mean	3.909	2.563	5.363	4.274	5.282	5.539
Std. Dev.	1.04	0.9594	1.298	1.447	2.305	1.338
Upper Lim.	4.487	3.08	6.176	5.35	6.996	6.831
Lower Lim.	3.264	1.958	4.549	3.198	3.568	4.247

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.58	0.75	0.65			
6/4/2020	0.96	0.75	2.89			
6/18/2020	1.05	0.62	2.82			
7/1/2020	0.69		0.73			
7/2/2020		<0.1				
7/16/2020	0.72	1.55	2.41			
7/30/2020	0.91	<0.1	<0.1			
8/13/2020	1.04	0.71	1			
8/27/2020	1.02	0.54	4.57			
9/21/2020	1.29	1.23	1.77			
2/10/2021	1.69	1.3	6.22			
4/7/2021	1.31	1.08	3.32	3.19	1.1	
5/13/2021				2.82	0.84	
7/7/2021	0.97	0.87	1.88			
7/8/2021				1.85	0.99	
8/31/2021					0.75	
9/1/2021				1.79		
9/27/2021				1.63	0.98	
10/26/2021				0.83	0.42	
11/17/2021				1.53	0.58	
1/31/2022	0.9	0.28	0.81	0.67	0.36	
6/21/2022	0.91	0.93	1.94	1.56	0.93	
10/25/2022		0.42	1.06	0.99	0.49	
10/26/2022	0.53				0.66	
12/7/2022					<0.1	
2/6/2023		1.12	3.08	1.58		
2/7/2023	1.28				0.89	1.61
3/20/2023						1.06
6/6/2023	0.89					
6/7/2023		0.53	1.6	1.16	0.68	0.91
7/19/2023						0.44
10/10/2023						1.7
12/5/2023						0.96
1/4/2024		0.92			1.08	1.01
1/10/2024	0.84		0.98	1.17		
Mean	0.9767	0.7611	2.099	1.598	0.7762	0.9333
Std. Dev.	0.2836	0.4139	1.545	0.7264	0.2509	0.5205
Upper Lim.	1.148	1.012	3.034	2.138	0.9627	1.436
Lower Lim.	0.8051	0.5107	1.164	1.058	0.5896	0.4308

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.035	0.02	0.0279			
6/4/2020	0.0191	0.0238	0.019			
6/18/2020	0.0201	0.0247	0.0236			
7/1/2020	0.0202		0.0236			
7/2/2020		0.026				
7/16/2020	0.0116	0.0235	0.0269			
7/30/2020	0.005	0.0244	0.0295			
8/13/2020	0.0093	0.0247	0.0355			
8/27/2020	0.0087	0.0268	0.0193			
2/10/2021	0.0165	0.0196	0.092 (o)			
4/7/2021	0.008	0.0175	0.0248	0.0113	0.013	
5/13/2021				0.0122	0.0127	
7/7/2021	0.0097	0.0208	0.0297			
7/8/2021			0.0126	0.0131		
8/31/2021				0.0136		
9/1/2021			0.0146			
9/27/2021			0.0147	0.0137		
10/26/2021			0.0145	0.0158		
11/17/2021			0.0147	0.0068		
1/31/2022	0.0056	0.019	0.0244	0.0113	0.0105	
6/21/2022	<0.01	<0.01	0.011	<0.01	<0.01	
10/25/2022		0.0251	0.0298	0.0134	0.0028	
10/26/2022	0.0089				0.0551	
12/7/2022					0.0473	
2/6/2023		0.0234	0.0328	0.00927		
2/7/2023	0.00625				0.0118	0.0378
3/20/2023					0.0361	
6/6/2023	0.00144					
6/7/2023		0.0166	0.0181	0.00896	0.0132	0.0234
7/19/2023					0.037	
10/10/2023					0.0404	
12/5/2023					0.0363	
1/4/2024		0.0176		0.0074	0.031	
1/10/2024	0.0021		0.0281	0.0091		
Mean	0.01132	0.02109	0.02525	0.01166	0.01072	0.0385
Std. Dev.	0.008498	0.005246	0.006183	0.002938	0.003947	0.008854
Upper Lim.	0.01529	0.02416	0.02927	0.01385	0.01366	0.04705
Lower Lim.	0.005765	0.01891	0.02123	0.009479	0.007788	0.02995

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.015	0.015	0.069			
6/4/2020	0.027	<0.005	0.09			
6/18/2020	0.028	0.015	0.11			
7/1/2020	<0.01		0.11			
7/2/2020		0.015				
7/16/2020	0.01	<0.005	0.071			
7/30/2020	<0.01	0.014	0.06			
8/13/2020	<0.01	<0.005	0.063			
8/27/2020	0.023	0.016	0.093			
2/10/2021	0.024	0.013	0.11			
4/7/2021	0.02	0.014	0.094	0.058	0.14	
5/13/2021				0.058	0.13	
7/7/2021	0.014	0.015	0.056			
7/8/2021				0.058	0.12	
8/31/2021					0.13	
9/1/2021			0.064			
9/27/2021			0.067	0.15		
10/26/2021			0.053	0.11		
11/17/2021			0.052	0.11		
1/31/2022	0.0183	0.0109	0.1	0.0642	0.128	
6/21/2022	<0.01	<0.005	0.029	0.039	0.1	
10/25/2022		<0.005	0.0517	0.0712	0.148	
10/26/2022	0.00893				0.00785	
12/7/2022					<0.05	
2/6/2023		0.0142	0.0143	0.0687		
2/7/2023	0.0247				0.198	0.0116
3/20/2023						<0.05
6/6/2023	0.00779					
6/7/2023		0.0139	0.0701	0.0766	0.181	0.0115
7/19/2023						0.0151
10/10/2023						0.0135
12/5/2023						0.00732
1/4/2024		0.00952			0.172	0.01
1/10/2024	0.0182		0.113	0.0449		
Mean	0.01641	0.01121	0.07671	0.05958	0.1398	0.01965
Std. Dev.	0.006979	0.00441	0.02932	0.01061	0.02941	0.01738
Upper Lim.	0.02007	0.015	0.09508	0.06747	0.1616	0.05
Lower Lim.	0.01116	0.005	0.05834	0.05169	0.1179	0.00732

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-3
5/21/2020	<0.0002	<0.0002
6/4/2020	<0.0002	<0.0002
6/18/2020	<0.0002	0.00047
7/1/2020	0.0002	0.00023
7/16/2020	<0.0002	<0.0002
7/30/2020	<0.0002	<0.0002
8/13/2020	<0.0002	<0.0002
8/27/2020	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002
4/7/2021	<0.0002	0.00021
7/7/2021	<0.0002	<0.0002
1/31/2022	<0.0002	<0.0002
6/21/2022	<0.0002	<0.0002
10/25/2022		<0.0002
10/26/2022	<0.0002	
2/6/2023		<0.0002
2/7/2023	<0.0002	
6/6/2023	<0.0002	
6/7/2023		<0.0002
1/10/2024	<0.0002	<0.0002
Mean	0.0002	0.0002182
Std. Dev.	1.2E-12	6.531E-05
Upper Lim.	0.0002	0.00021
Lower Lim.	0.0002	0.0002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/4/2024 2:23 PM View: Confidence Intervals

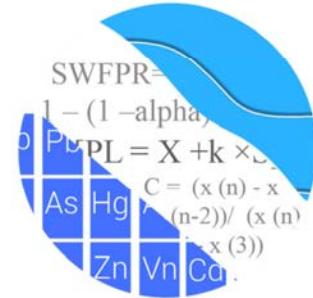
CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-7
5/21/2020	<0.01	0.0113	<0.01		
6/4/2020	0.0166	0.0078	0.0067		
6/18/2020	0.0143	<0.01	<0.01		
7/1/2020	0.0177		<0.01		
7/2/2020		<0.01			
7/16/2020	<0.01	<0.01	<0.01		
7/30/2020	<0.01	<0.01	<0.01		
8/13/2020	<0.01	<0.01	<0.01		
8/27/2020	<0.01	<0.01	<0.01		
2/10/2021	0.0163	<0.01	<0.01		
4/7/2021	<0.01	<0.01	<0.01	<0.01	
5/13/2021				<0.01	
7/7/2021	<0.01	<0.01	<0.01		
7/8/2021			<0.01		
9/1/2021			<0.01		
9/27/2021			<0.01		
10/26/2021			<0.01		
11/17/2021			<0.01		
1/31/2022	0.018	0.014	0.014	<0.01	
6/21/2022	<0.01	<0.01	<0.01	<0.01	
10/25/2022		0.027	0.019	0.00856	
10/26/2022	0.026			0.046	
12/7/2022				0.0558	
2/6/2023		<0.01	<0.01	<0.01	
2/7/2023	<0.01			0.002	
3/20/2023				<0.01	
6/6/2023	<0.01				
6/7/2023		<0.01	<0.01	<0.01	<0.01
7/19/2023					<0.01
10/10/2023					<0.01
12/5/2023					<0.01
1/4/2024		<0.01			<0.01
1/10/2024	<0.01		<0.01	<0.01	
Mean	0.01288	0.01118	0.01057	0.009889	0.0182
Std. Dev.	0.004612	0.004241	0.002529	0.0003994	0.01888
Upper Lim.	0.0166	0.0113	0.014	0.01	0.0558
Lower Lim.	0.01	0.0078	0.0067	0.00856	0.002

GROUNDWATER STATS
CONSULTING

October 30, 2024

SynTerra
Attn: Ms. Kelly Ferri
148 River Street, Suite 220
Greenville, South Carolina 29601



RE: Cross Generating Station Closed Gypsum Pond –
Background Update and June 2024 Groundwater Statistical Analysis

Dear Ms. Ferri,

Groundwater Stats Consulting, formerly the statistical consulting division at Sanitas Technologies, is pleased to provide the background update and statistical analysis of the June 2024 sample event of groundwater data at the Cross Generating Station Closed Gypsum Pond for the Coal Combustion Residuals (CCR) program. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting. The waste boundary monitoring well network consists of the following wells:

- **Upgradient wells:** CBW-1 and PM-1
- **Waste Boundary wells:** CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7

Sampling began for the CCR program in October 2015 at upgradient wells CBW-1 and PM-1; in May 2020 for downgradient wells CGYP1, CGYP-2, and CGYP-3; in April 2021 for downgradient wells CGYP-4 and CGYP-6; and in October 2022 for downgradient well CGYP-7. The Appendix III and IV constituents at waste boundary wells are evaluated using prediction limits and confidence intervals, respectively, when a minimum of 8 background samples are available.

The following constituents are evaluated:

- **Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that the terms "parameters" and "constituents" are interchangeable throughout this report. When there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs containing 100% non-detects follows this letter.

Time series plots are provided for all well/constituent pairs and are particularly useful for screening data (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots display concentrations over time for each well and are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Outliers and trends in background data result in increased variation and statistical limits that are not conservative (i.e., lower) from a regulatory perspective, if not addressed. When outliers are confirmed, these values are flagged in the computer database with "o" in order to deselect prior to construction of statistical limits. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series graphs. A list of flagged values follows this report (Figure C).

Reporting limit changes may occur depending on laboratory capabilities. A substitution of the most recent reporting limit is used for all non-detects for a given constituent to account for any varying detection limits in background data sets.

Data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when introwell statistical methods are recommended. A power curve was provided with the screening and demonstrated that the selected statistical method for the Appendix III Detection Monitoring parameters listed above complies with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 7
- # Downgradient wells: 6

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects.
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment and unrelated to the site. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. Upgradient well data for Appendix III constituents are carefully screened for any new outliers and interwell prediction limits are updated each sample event.

When newer measurements are representative of earlier measurements, the concentrations are incorporated into background. Improved sample size results in statistical limits that provide better representation of the true background population. In some cases, the earlier portion of records may require deselection prior to construction of limits to provide sensitive limits that are representative of present-day groundwater quality conditions and will rapidly detect changes in downgradient wells. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs. A summary of records with truncated data sets will be provided should this step be necessary in the future.

Summary of Background Screening through October 2022 – Appendix III Constituents

Outlier Testing

During the initial background screening conducted in February 2023, Tukey's box plot method was used to evaluate potential outliers through the October 2022 sample event for Appendix III constituents on pooled upgradient well data and at each downgradient well. No outliers were identified for any of the Appendix III constituents; therefore, no values were flagged.

Seasonality

No seasonal patterns were visually apparent in any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be optionally deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Determination of Statistical Methods

The Analysis of Variance (ANOVA) was used to identify the most appropriate statistical approach based on observed groundwater quality upgradient of the Closed Gypsum Pond. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative (i.e., lower) from a

regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameters.

In cases where downgradient concentrations are elevated relative to upgradient concentrations, an independent study and hydrogeological investigation would be required to identify local geochemical conditions and expected groundwater quality for the region to justify an intrawell approach. Such an assessment is beyond the scope of services provided by Groundwater Stats Consulting.

The ANOVA noted variation in groundwater quality among upgradient wells for boron, calcium, chloride, fluoride, pH, and sulfate. No variation was identified between upgradient wells for TDS, making this constituent eligible for interwell prediction limits. For all other Appendix III constituents, the results of the ANOVA indicated intrawell methods should be considered for these parameters if no pre-existing impacts from the unit are suspected in downgradient wells. Additional testing was conducted as described below to determine intrawell eligibility.

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are conservative (i.e., lower) from a regulatory perspective, and that will rapidly identify a change in more recent compliance data from within a given well. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking spatial variation for a release from the facility. Prior to performing intrawell prediction limits, it is necessary to demonstrate that groundwater at downgradient wells is not suspected to have existing impacts from the practices of the facility.

In order to establish baseline upgradient well concentrations, tolerance limits (either parametric or nonparametric as appropriate, depending on the distribution of the data sets) were constructed using pooled upgradient well data for each of the Appendix III parameters recommended for intrawell analyses. Parametric tolerance limits were constructed with a target of 99% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As more data are collected, the background population is better represented and the confidence and coverage levels increase.

To determine whether average downgradient concentrations are elevated relative to the upgradient well baseline concentrations established by the tolerance limits above, confidence intervals were constructed on downgradient wells for each of the Appendix III

parameters exhibiting spatial variation. The results showed that at least one confidence interval exceeded its respective limit for each of the parameters tested.

When the entire confidence interval exceeds a background standard, it is an indication that downgradient concentrations are elevated above background levels. Therefore, interwell methods are recommended initially in lieu of intrawell methods until further research identifies whether the elevated downgradient concentrations are likely the result of natural geological conditions, an off-site source, or may be the result of the facility. After such a study, data would be re-evaluated to determine the most appropriate statistical method.

Trend Testing – Upgradient Wells

The Sen's Slope/Mann Kendall trend test was used to evaluate pooled upgradient well data to identify statistically significant increasing or decreasing trends. Statistically significant increasing trending data are typically not included as part of the background data used for construction of interwell prediction limits. Truncating data sets in upgradient wells to eliminate trends reduces variation in background and results in statistical limits representative of present-day groundwater quality concentrations. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether historic concentration levels are significantly higher than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The results of the trend analyses identified the following statistically significant trends:

Increasing:

- Chloride: CBW-1

Decreasing:

- Calcium: PM-1
- Fluoride: CBW-1
- Sulfate: PM-1

These trends are relatively low in magnitude when compared to average concentrations within these wells; therefore, no adjustments were required to the data sets. No other statistically significant trends were identified for any of the Appendix III parameters.

Summary of Background Update through June 2024 – Appendix III Constituents

Outlier Testing

Prior to updating statistical limits (interwell prediction limits for Appendix III constituents), Tukey's box plot method and visual screening used to evaluate potential outliers through the June 2024 sample event for Appendix III constituents on pooled upgradient well data. No measurements for Appendix III were flagged in the database as outliers. Values identified by Tukey's test but not flagged were either among values of similar magnitude, or did not have evidence of sampling errors. If any values are flagged in the future, a list of outliers will be included.

Trend Testing – Upgradient Wells

The Sen's Slope/Mann Kendall trend test was used to evaluate upgradient well data to identify statistically significant increasing or decreasing trends at the 99% confidence level for Appendix III constituents (Figure D). Statistically significant increasing trending data are typically not included as part of the background data used for construction of interwell prediction limits. Truncating data sets in upgradient wells to eliminate trends reduces variation in background and results in statistical limits representative of present-day groundwater quality concentrations.

When statistically significant decreasing trends are present, earlier data are evaluated to determine whether historic concentration levels are significantly higher than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The results of the trend analyses identified the following statistically significant trends:

Increasing:

- Chloride: CBW-1

Decreasing:

- Calcium: PM-1
- Fluoride: CBW-1
- Sulfate: PM-1

While these trends were identified as statistically significant, the trends are relatively low in magnitude when compared to average concentrations within these wells or would not

have significant changes on resulting statistical limits; therefore, no adjustments were required to the data sets.

Evaluation of Appendix III Constituents – June 2024 Event

Interwell Prediction Limits

Interwell prediction limits were constructed as recommended in the CCR Rule (2015) and in the EPA Unified Guidance (2009), based on a 1-of-2 resample plan, using pooled upgradient well data from wells CBW-1 and PM-1 for boron, calcium, chloride, fluoride, pH, sulfate, and TDS through the June 2024 sample event (Figure E).

The June 2024 samples from each downgradient well were compared to the respective statistical limits. In the event of an initial exceedance of compliance well data, a resample may be collected to determine whether the initial exceedance is confirmed, in which case a statistically significant increase (SSI) is identified. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary.

Parametric prediction limits were constructed when background data followed a normal or transformed-normal distribution. Non-parametric prediction limits are provided for data sets with greater than 50% non-detects, and for data sets which do not follow a normal or transformed-normal distribution. Downgradient measurements were compared to these background limits. Exceedances were noted for the majority of Appendix III constituents, which may be seen on the summary table following this letter.

Trend Tests - Exceedances

When an exceedance occurs in a downgradient well, the exceedance is further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site (Figure F). Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Chloride: CBW-1 (upgradient)
- Sulfate: CGYP-6 (upgradient)

Decreasing

- | | |
|-------------|---------------------------------------|
| • Boron: | CGYP-4 |
| • Calcium: | PM-1 (upgradient), CGYP-2 and CGYP-4 |
| • Chloride: | CGYP-2 and CGYP-4 |
| • Fluoride: | CBW-1 (upgradient) |
| • Sulfate: | PM-1 (upgradient), CGYP-4, and CGYP-7 |
| • TDS: | CGYP-2, CGYP-4, and CGYP-7 |

Summary of Background Update through January 2024 – Appendix IV Constituents

During the initial background screening conducted in February 2023, upgradient well data were screened through October 2022 for Appendix IV constituents using visual screening to identify whether seasonal patterns or trends are present that would lead to artificially elevated statistical limits. Prior to constructing statistical limits (interwell upper tolerance limits for Appendix IV constituents), all upgradient well data through January 2024 were re-evaluated during this update with Tukey's outlier test and visual screening to identify potential outliers.

Tukey's outlier test on pooled upgradient well data through January 2024 identified outliers for cobalt, combined radium 226 + 228, and lead; however, these values were not flagged as outliers since the measurements were either similar to remaining measurements within the records, were less than the established Maximum Contaminant Limits (MCLs), or did not have evidence of sampling errors. If any values are flagged in the future, a list of outliers will be included.

Additionally, downgradient well data through January 2024 were screened through visual screening. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. During this screening, a previously flagged measurement for lead in downgradient well CGYP-3 was unflagged as there were no sampling or laboratory analytical errors identified. No additional values were suspected as outliers among downgradient during this screening as may be seen on Figure C.

Trend Testing – Upgradient Wells

As mentioned above, the Sen's Slope/Mann Kendall trend test was used to evaluate upgradient well data to identify statistically significant increasing or decreasing trends at

the 95% confidence level for Appendix IV constituents. (Figure D) Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Cobalt: PM-1

Decreasing:

- Barium: CBW-1
- Cobalt: CBW-1
- Combined Radium 226 + 228: CBW-1 and PM-1
- Fluoride: CBW-1
- Lead: CBW-1

While these trends were identified to be statistically significant, they are relatively low in magnitude when compared to average concentrations within these wells or would not have significant changes on resulting statistical limits; therefore, no adjustments were required to the data sets.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits are used to calculate background limits from all available pooled upgradient well data through January 2024 for Appendix IV parameters to determine the background limit for each constituent (Figure G). These limits are updated on an annual basis and will be updated again during the Spring 2025 sample event analysis. Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

Interwell upper tolerance limits were compared to the MCLs and CCR-Rule specified levels in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure H).

Evaluation of Appendix IV Parameters – June 2024 Event

Confidence Intervals – Downgradient Wells

Confidence intervals were then constructed on downgradient wells with data through June 2024 for each of the Appendix IV parameters using the highest limit of the MCL, the CCR-Rule specified levels, or background limits as discussed above (Figure I). Well/constituent pairs containing 100% non-detects do not require statistical analyses. No confidence intervals were required for molybdenum and thallium since downgradient well/constituent pairs contained 100% non-detects.

These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. A summary of the confidence interval results follows this letter. Exceedances were identified for the following well/constituent pairs:

- Beryllium: CGYP-1, CGYP-3, CGYP-4, CGYP-6, and CGYP-7
- Cobalt: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7
- Lead: CGYP-2, CGYP-3, and CGYP-7
- Lithium: CGYP-3, CGYP-4, and CGYP-6

Trend Tests - Exceedances

When confidence interval exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 95% confidence level (Figure J). For lead and lithium, trend tests included all downgradient wells as requested.

As mentioned above, utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their confidence intervals in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of spatial variability in groundwater which may be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Cobalt: PM-1 (upgradient)

Decreasing

- Beryllium: CGYP-4 and CGYP-7
- Cobalt: CBW-1 (upgradient), CGYP-2, CGYP-4, and CGYP-7
- Lead: CBW-1 (upgradient), CGYP-1, CGYP-2, and CGYP-7

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Closed Gypsum Pond. If you have any questions or comments, please feel free to contact us.

Sincerely,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Senior Statistician

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Summary Tables

100% Non-Detects: Appendix IV Downgradient

Analysis Run 8/19/2024 2:31 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

Antimony (mg/L)

CGYP-2, CGYP-3, CGYP-4

Arsenic (mg/L)

CGYP-6

Chromium (mg/L)

CGYP-1, CGYP-2, CGYP-4, CGYP-7

Mercury (mg/L)

CGYP-2, CGYP-4, CGYP-6, CGYP-7

Molybdenum (mg/L)

CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Selenium (mg/L)

CGYP-6

Thallium (mg/L)

CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, CGYP-7

Upgradient Wells Trend Tests - Appendix III - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDS	Normality	Alpha	Method
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP

Upgradient Wells Trend Tests - Appendix III - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:28 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CBW-1 (bg)	-0.0006235	-89	-111	No	25	8	n/a	0.01	NP
Boron (mg/L)	PM-1 (bg)	-0.0002129	-63	-105	No	24	37.5	n/a	0.01	NP
Calcium (mg/L)	CBW-1 (bg)	0.3169	57	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	PM-1 (bg)	-0.01932	-34	-118	No	26	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	105	No	24	100	n/a	0.01	NP
pH, Field (pH units)	CBW-1 (bg)	0.01189	44	118	No	26	0	n/a	0.01	NP
pH, Field (pH units)	PM-1 (bg)	0	-10	-146	No	30	0	n/a	0.01	NP
Sulfate (mg/L)	CBW-1 (bg)	1.043	62	118	No	26	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CBW-1 (bg)	5.193	88	118	No	26	3.846	n/a	0.01	NP
Total Dissolved Solids (mg/L)	PM-1 (bg)	-1.109	-29	-146	No	30	3.333	n/a	0.01	NP

Upgradient Wells Trend Tests - Appendix IV - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:36 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	CBW-1 (bg)	-0.0003885	-77	-76	Yes	23	0	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007615	-167	-76	Yes	23	4.348	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004167	137	76	Yes	23	4.348	n/a	0.05	NP
Combined Radium 226 & 228 (pCi/l)	CBW-1 (bg)	-0.3425	-86	-71	Yes	22	31.82	n/a	0.05	NP
Combined Radium 226 & 228 (pCi/l)	PM-1 (bg)	-0.2531	-94	-71	Yes	22	27.27	n/a	0.05	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-76	Yes	23	4.348	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.000108	-119	-76	Yes	23	4.348	n/a	0.05	NP

Upgradient Wells Trend Tests - Appendix IV - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:36 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	CBW-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Antimony (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Arsenic (mg/L)	CBW-1 (bg)	0	-59	-76	No	23	86.96	n/a	0.05	NP
Arsenic (mg/L)	PM-1 (bg)	0	21	76	No	23	86.96	n/a	0.05	NP
Barium (mg/L)	CBW-1 (bg)	-0.0003885	-77	-76	Yes	23	0	n/a	0.05	NP
Barium (mg/L)	PM-1 (bg)	-0.0003849	-38	-76	No	23	0	n/a	0.05	NP
Beryllium (mg/L)	CBW-1 (bg)	0	-21	-71	No	22	95.45	n/a	0.05	NP
Beryllium (mg/L)	PM-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Cadmium (mg/L)	CBW-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Cadmium (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Chromium (mg/L)	CBW-1 (bg)	0	-21	-71	No	22	95.45	n/a	0.05	NP
Chromium (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007615	-167	-76	Yes	23	4.348	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004167	137	76	Yes	23	4.348	n/a	0.05	NP
Combined Radium 226 & 228 (pcil/l)	CBW-1 (bg)	-0.3425	-86	-71	Yes	22	31.82	n/a	0.05	NP
Combined Radium 226 & 228 (pcil/l)	PM-1 (bg)	-0.2531	-94	-71	Yes	22	27.27	n/a	0.05	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-76	Yes	23	4.348	n/a	0.05	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.000108	-119	-76	Yes	23	4.348	n/a	0.05	NP
Lead (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Lithium (mg/L)	CBW-1 (bg)	0	-12	-76	No	23	95.65	n/a	0.05	NP
Lithium (mg/L)	PM-1 (bg)	0	23	76	No	23	86.96	n/a	0.05	NP
Mercury (mg/L)	CBW-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Mercury (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Molybdenum (mg/L)	CBW-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Molybdenum (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	CBW-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Thallium (mg/L)	CBW-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Thallium (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP

Appendix III Interwell Prediction Limits - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	6/12/2024	8.84	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-3	0.836	n/a	6/13/2024	12.2	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-4	0.836	n/a	6/12/2024	4.73	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-6	0.836	n/a	6/13/2024	0.925	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-7	0.836	n/a	6/12/2024	8.65	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-1	119	n/a	6/12/2024	207	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-2	119	n/a	6/12/2024	208	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-3	119	n/a	6/13/2024	418	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-4	119	n/a	6/12/2024	209	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-6	119	n/a	6/13/2024	297	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-7	119	n/a	6/12/2024	327	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-1	13.5	n/a	6/12/2024	707	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-2	13.5	n/a	6/12/2024	45.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-3	13.5	n/a	6/13/2024	699	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-4	13.5	n/a	6/12/2024	307	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-6	13.5	n/a	6/13/2024	167	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-7	13.5	n/a	6/12/2024	558	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Fluoride (mg/L)	CGYP-1	0.3	n/a	6/12/2024	1.03	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-2	0.3	n/a	6/12/2024	0.96	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-3	0.3	n/a	6/13/2024	1.94	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-4	0.3	n/a	6/12/2024	1.5	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-7	0.3	n/a	6/12/2024	1.08	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
pH, Field (pH units)	CGYP-1	5.58	4.09	6/12/2024	3.98	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-2	5.58	4.09	6/12/2024	4.06	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-4	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-6	5.58	4.09	6/13/2024	6.56	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-7	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-1	115	n/a	6/12/2024	339	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-2	115	n/a	6/12/2024	787	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-3	115	n/a	6/13/2024	859	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-4	115	n/a	6/12/2024	497	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-6	115	n/a	6/13/2024	384	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-7	115	n/a	6/12/2024	712	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	CGYP-1	205.3	n/a	6/12/2024	1631	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-2	205.3	n/a	6/12/2024	1240	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-3	205.3	n/a	6/13/2024	2489	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-4	205.3	n/a	6/12/2024	1176	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-6	205.3	n/a	6/13/2024	1415	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-7	205.3	n/a	6/12/2024	1734	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	6/12/2024	8.84	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-2	0.836	n/a	6/12/2024	0.829	No	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-3	0.836	n/a	6/13/2024	12.2	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-4	0.836	n/a	6/12/2024	4.73	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-6	0.836	n/a	6/13/2024	0.925	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-7	0.836	n/a	6/12/2024	8.65	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-1	119	n/a	6/12/2024	207	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-2	119	n/a	6/12/2024	208	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-3	119	n/a	6/13/2024	418	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-4	119	n/a	6/12/2024	209	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-6	119	n/a	6/13/2024	297	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-7	119	n/a	6/12/2024	327	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-1	13.5	n/a	6/12/2024	707	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-2	13.5	n/a	6/12/2024	45.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-3	13.5	n/a	6/13/2024	699	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-4	13.5	n/a	6/12/2024	307	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-6	13.5	n/a	6/13/2024	167	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-7	13.5	n/a	6/12/2024	558	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Fluoride (mg/L)	CGYP-1	0.3	n/a	6/12/2024	1.03	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-2	0.3	n/a	6/12/2024	0.96	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-3	0.3	n/a	6/13/2024	1.94	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-4	0.3	n/a	6/12/2024	1.5	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-6	0.3	n/a	6/13/2024	0.2	No	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-7	0.3	n/a	6/12/2024	1.08	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
pH, Field (pH units)	CGYP-1	5.58	4.09	6/12/2024	3.98	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-2	5.58	4.09	6/12/2024	4.06	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-3	5.58	4.09	6/13/2024	4.25	No	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-4	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-6	5.58	4.09	6/13/2024	6.56	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-7	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-1	115	n/a	6/12/2024	339	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-2	115	n/a	6/12/2024	787	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-3	115	n/a	6/13/2024	859	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-4	115	n/a	6/12/2024	497	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-6	115	n/a	6/13/2024	384	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-7	115	n/a	6/12/2024	712	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	CGYP-1	205.3	n/a	6/12/2024	1631	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-2	205.3	n/a	6/12/2024	1240	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-3	205.3	n/a	6/13/2024	2489	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-4	205.3	n/a	6/12/2024	1176	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-6	205.3	n/a	6/13/2024	1415	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-7	205.3	n/a	6/12/2024	1734	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:48 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CGYP-4	-1.06	-66	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-29.62	-110	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-44.27	-74	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-25.15	-93	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-139.6	-89	-48	Yes	14	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Sulfate (mg/L)	CGYP-4	-35.84	-51	-48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-6	27.87	52	48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-109.8	-33	-30	Yes	10	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-61.54	-92	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-297	-70	-48	Yes	14	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-7	-544.5	-31	-30	Yes	10	0	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	CBW-1 (bg)	-0.0006235	-89	-111	No	25	8	n/a	0.01	NP
Boron (mg/L)	CGYP-1	-0.06178	-6	-74	No	19	0	n/a	0.01	NP
Boron (mg/L)	CGYP-3	-0.5432	-34	-74	No	19	0	n/a	0.01	NP
Boron (mg/L)	CGYP-4	-1.06	-66	-48	Yes	14	0	n/a	0.01	NP
Boron (mg/L)	CGYP-6	-0.6699	-13	-48	No	14	0	n/a	0.01	NP
Boron (mg/L)	CGYP-7	-1.664	-30	-30	No	10	0	n/a	0.01	NP
Boron (mg/L)	PM-1 (bg)	-0.0002129	-63	-105	No	24	37.5	n/a	0.01	NP
Calcium (mg/L)	CBW-1 (bg)	0.3169	57	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-1	-9.16	-32	-74	No	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-29.62	-110	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-3	-42.37	-50	-74	No	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-44.27	-74	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-6	-28.58	-16	-48	No	14	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-7	-44.73	-9	-30	No	10	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-1	13.22	48	74	No	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-25.15	-93	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-3	-73.54	-43	-74	No	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-139.6	-89	-48	Yes	14	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-6	-43.98	-21	-48	No	14	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-7	-153.7	-21	-30	No	10	0	n/a	0.01	NP
Chloride (mg/L)	PM-1 (bg)	-0.01932	-34	-118	No	26	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Fluoride (mg/L)	CGYP-1	0.02045	8	74	No	19	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-2	0.05169	15	74	No	19	10.53	n/a	0.01	NP
Fluoride (mg/L)	CGYP-3	0.04559	6	74	No	19	5.263	n/a	0.01	NP
Fluoride (mg/L)	CGYP-4	-0.416	-45	-48	No	14	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-7	0.2305	13	30	No	10	10	n/a	0.01	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	105	No	24	100	n/a	0.01	NP
pH, Field (pH units)	CBW-1 (bg)	0.01189	44	118	No	26	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-1	0.123	68	74	No	19	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-2	0.05604	53	74	No	19	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-4	0.06994	31	48	No	14	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-6	0.06528	27	48	No	14	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-7	0.05028	7	30	No	10	0	n/a	0.01	NP
pH, Field (pH units)	PM-1 (bg)	0	-10	-146	No	30	0	n/a	0.01	NP
Sulfate (mg/L)	CBW-1 (bg)	1.043	62	118	No	26	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-1	-19.37	-29	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-2	-3.736	-6	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-3	-9.458	-29	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-4	-35.84	-51	-48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-6	27.87	52	48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-109.8	-33	-30	Yes	10	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CBW-1 (bg)	5.193	88	118	No	26	3.846	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-1	-37.16	-35	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-61.54	-92	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-3	-216.4	-53	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-297	-70	-48	Yes	14	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-6	-356.5	-23	-48	No	14	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-7	-544.5	-31	-30	Yes	10	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	PM-1 (bg)	-1.109	-29	-146	No	30	3.333	n/a	0.01	NP

Upper Tolerance Limits

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:58 PM

<u>Constituent</u>	<u>Upper Lim.</u>	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.005	42	n/a	n/a	100	n/a	n/a	0.116	NP Inter(nds)
Arsenic (mg/L)	0.016	46	n/a	n/a	86.96	n/a	n/a	0.09447	NP Inter(nds)
Barium (mg/L)	0.103	46	n/a	n/a	0	n/a	n/a	0.09447	NP Inter(normality)
Beryllium (mg/L)	0.00063	45	n/a	n/a	97.78	n/a	n/a	0.09944	NP Inter(nds)
Cadmium (mg/L)	0.0005	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(nds)
Chromium (mg/L)	0.014	43	n/a	n/a	97.67	n/a	n/a	0.1102	NP Inter(nds)
Cobalt (mg/L)	0.0034	46	n/a	n/a	4.348	n/a	n/a	0.09447	NP Inter(normality)
Combined Radium 226 & 228 (pcil/l)	8.823	44	1.331	0.3501	29.55	Kaplan-Meier	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.3	46	n/a	n/a	52.17	n/a	n/a	0.09447	NP Inter(nds)
Lead (mg/L)	0.011	45	n/a	n/a	51.11	n/a	n/a	0.09944	NP Inter(nds)
Lithium (mg/L)	0.00544	46	n/a	n/a	91.3	n/a	n/a	0.09447	NP Inter(nds)
Mercury (mg/L)	0.0002	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(nds)
Molybdenum (mg/L)	0.005	42	n/a	n/a	100	n/a	n/a	0.116	NP Inter(nds)
Selenium (mg/L)	0.01	45	n/a	n/a	100	n/a	n/a	0.09944	NP Inter(nds)
Thallium (mg/L)	0.001	42	n/a	n/a	100	n/a	n/a	0.116	NP Inter(nds)

CGYP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.005	0.006
Arsenic, Total (mg/L)	0.01		0.016	0.016
Barium, Total (mg/L)	2		0.103	2
Beryllium, Total (mg/L)	0.004		0.00063	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.014	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		8.82	8.82
Fluoride, Total (mg/L)	4		0.3	4
Lead, Total (mg/L)	n/a	0.015	0.011	0.015
Lithium, Total (mg/L)	n/a	0.04	0.0054	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.005	0.1
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

*GWPS = Groundwater Protection Standard

Appendix IV Confidence Interval Summary Table - Significant Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 1:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CGYP-1	0.011	0.0053	0.004	Yes 18	0.008088	0.002949	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-3	0.03725	0.02473	0.004	Yes 18	0.03099	0.01035	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01701	0.01332	0.004	Yes 14	0.01501	0.002914	0	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02662	0.01923	0.004	Yes 14	0.02213	0.007298	7.143	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01091	0.006223	0.004	Yes 10	0.008567	0.002627	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-1	0.04866	0.03454	0.006	Yes 18	0.0416	0.01167	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.0183	0.006	Yes 18	0.02294	0.008577	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1292	0.08321	0.006	Yes 18	0.1062	0.03798	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04762	0.03077	0.006	Yes 14	0.03919	0.01189	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.165	0.1214	0.006	Yes 14	0.1387	0.04324	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.0889	0.04292	0.006	Yes 10	0.06591	0.02577	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-2	0.02385	0.01864	0.015	Yes 18	0.02078	0.005251	5.556	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.0298	0.019	0.015	Yes 18	0.02847	0.01701	0	None	No	0.01	NP (normality)
Lead (mg/L)	CGYP-7	0.04548	0.02916	0.015	Yes 10	0.03732	0.009144	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-3	0.09274	0.05713	0.04	Yes 18	0.07493	0.02943	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-4	0.06655	0.05201	0.04	Yes 14	0.05928	0.01026	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1612	0.1018	0.04	Yes 14	0.1315	0.04196	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

		CGYP	Client: Santee Cooper	Data	CGYP	Printed 10/30/2024, 1:02 PM						
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	CGYP-1	0.0056	0.005	0.006	No 18	0.005033	0.0001414	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	CGYP-6	0.0053	0.005	0.006	No 14	0.005021	0.00008018	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	CGYP-7	0.005	0.005	0.006	No 10	0.00508	0.000253	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	CGYP-1	0.02727	0.01211	0.016	No 18	0.02089	0.01314	5.556	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	CGYP-2	0.02041	0.012	0.016	No 18	0.01621	0.00695	11.11	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-3	0.01796	0.0117	0.016	No 18	0.01483	0.005179	5.556	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-4	0.0113	0.005	0.016	No 14	0.008183	0.003073	7.143	None	No	0.01	NP (normality)
Arsenic (mg/L)	CGYP-7	0.02097	0.01057	0.016	No 10	0.01577	0.005827	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-1	0.05696	0.03882	2	No 18	0.04858	0.01584	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	CGYP-2	0.03087	0.01634	2	No 18	0.0236	0.01201	5.556	None	No	0.01	Param.
Barium (mg/L)	CGYP-3	0.04822	0.03426	2	No 18	0.04124	0.01153	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-4	0.03671	0.02653	2	No 14	0.03162	0.007182	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-6	0.5643	0.2346	2	No 14	0.3995	0.2327	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-7	0.02868	0.02086	2	No 10	0.02477	0.00438	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-1	0.011	0.0053	0.004	Yes 18	0.008088	0.002949	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-2	0.003937	0.002913	0.004	No 18	0.003425	0.0008469	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-3	0.03725	0.02473	0.004	Yes 18	0.03099	0.01035	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01701	0.01332	0.004	Yes 14	0.01501	0.002914	0	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02662	0.01923	0.004	Yes 14	0.02213	0.007298	7.143	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01091	0.006223	0.004	Yes 10	0.008567	0.002627	0	None	No	0.01	Param.
Cadmium (mg/L)	CGYP-1	0.0013	0.0005	0.005	No 18	0.0006389	0.0004327	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-2	0.001	0.0005	0.005	No 18	0.0005778	0.0002365	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-3	0.0008	0.0005	0.005	No 18	0.00073	0.0003826	44.44	None	No	0.01	NP (normality)
Cadmium (mg/L)	CGYP-4	0.0008	0.0005	0.005	No 14	0.0005214	0.00008018	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-6	0.0006	0.0005	0.005	No 14	0.0005071	0.00002673	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-7	0.003	0.0005	0.005	No 10	0.001155	0.001072	50	None	No	0.011	NP (normality)
Chromium (mg/L)	CGYP-3	0.0073	0.0052	0.1	No 18	0.006122	0.001197	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	CGYP-6	0.0061	0.005	0.1	No 14	0.005079	0.000294	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	CGYP-1	0.04866	0.03454	0.006	Yes 18	0.0416	0.01167	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.0183	0.006	Yes 18	0.02294	0.008577	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1292	0.08321	0.006	Yes 18	0.1062	0.03798	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04762	0.03077	0.006	Yes 14	0.03919	0.01189	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.165	0.1214	0.006	Yes 14	0.1387	0.04324	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.0889	0.04292	0.006	Yes 10	0.06591	0.02577	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-1	4.602	3.342	8.82	No 18	4.012	1.099	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-2	3.008	1.946	8.82	No 18	2.522	0.9466	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-3	6.076	4.511	8.82	No 18	5.294	1.293	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-4	5.203	2.882	8.82	No 14	4.042	1.638	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-6	6.74	3.229	8.82	No 14	4.984	2.478	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-7	6.593	4.223	8.82	No 10	5.408	1.328	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-1	1.141	0.8179	4	No 19	0.9795	0.2759	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-2	1.009	0.5345	4	No 19	0.7716	0.4049	10.53	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-3	2.97	1.211	4	No 19	2.091	1.502	5.263	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-4	2.085	1.096	4	No 14	1.591	0.6984	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-6	0.9376	0.5324	4	No 14	0.735	0.2861	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-7	1.388	0.5082	4	No 10	0.948	0.4929	10	None	No	0.01	Param.
Lead (mg/L)	CGYP-1	0.01651	0.00627	0.015	No 18	0.01235	0.009324	5.556	None	sqrt(x)	0.01	Param.
Lead (mg/L)	CGYP-2	0.02385	0.01864	0.015	Yes 18	0.02078	0.005251	5.556	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.0298	0.019	0.015	Yes 18	0.02847	0.01701	0	None	No	0.01	NP (normality)
Lead (mg/L)	CGYP-4	0.01352	0.009338	0.015	No 14	0.01143	0.002954	7.143	None	No	0.01	Param.
Lead (mg/L)	CGYP-6	0.01327	0.00778	0.015	No 14	0.009671	0.005172	14.29	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-7	0.04548	0.02916	0.015	Yes 10	0.03732	0.009144	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-1	0.024	0.00893	0.04	No 18	0.01596	0.00703	22.22	None	No	0.01	NP (normality)
Lithium (mg/L)	CGYP-2	0.015	0.005	0.04	No 18	0.01126	0.004284	27.78	None	No	0.01	NP (normality)
Lithium (mg/L)	CGYP-3	0.09274	0.05713	0.04	Yes 18	0.07493	0.02943	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

Page 2

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 1:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	CGYP-4	0.06655	0.05201	0.04	Yes 14	0.05928	0.01026	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1612	0.1018	0.04	Yes 14	0.1315	0.04196	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-7	0.05	0.00785	0.04	No 10	0.01879	0.01661	20	None	No	0.011	NP (normality)
Mercury (mg/L)	CGYP-1	0.0002	0.0002	0.002	No 18	0.0002	1.2e-12	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	CGYP-3	0.00021	0.0002	0.002	No 18	0.0002172	0.00006351	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-1	0.0166	0.01	0.05	No 18	0.01272	0.004526	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-2	0.0113	0.0078	0.05	No 18	0.01112	0.004124	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-3	0.014	0.0067	0.05	No 18	0.01054	0.002457	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-4	0.01	0.00856	0.05	No 14	0.009897	0.0003849	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-7	0.046	0.01	0.05	No 10	0.01738	0.01799	70	None	No	0.011	NP (NDs)

Appendix IV Trend Tests - Significant Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 5:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CGYP-4	-0.00249	-39	-37	Yes	14	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-7	-0.005137	-40	-23	Yes	10	0	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007011	-167	-81	Yes	24	4.167	n/a	0.05	NP
Cobalt (mg/L)	CGYP-2	-0.00195	-61	-53	Yes	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-4	-0.008104	-71	-37	Yes	14	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-7	-0.02182	-27	-23	Yes	10	0	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004776	154	81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.0001137	-142	-81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CGYP-1	-0.003781	-72	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-2	-0.001981	-58	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-7	-0.0136	-25	-23	Yes	10	0	n/a	0.05	NP

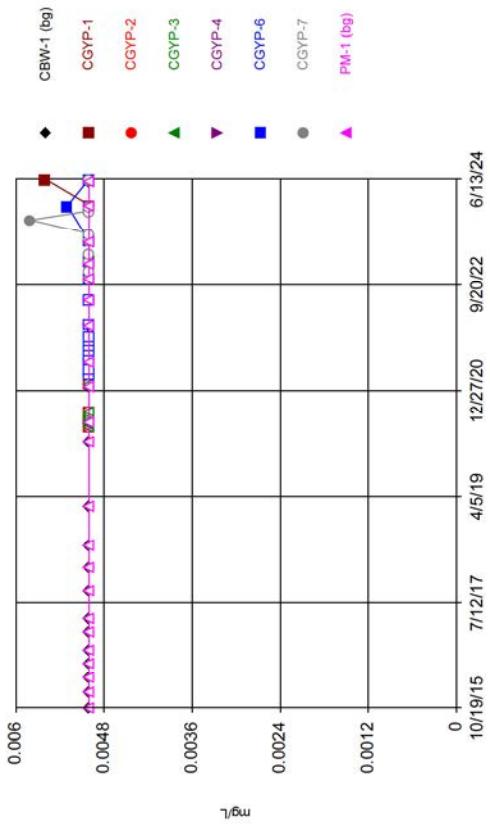
Appendix IV Trend Tests - All Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 5:14 PM

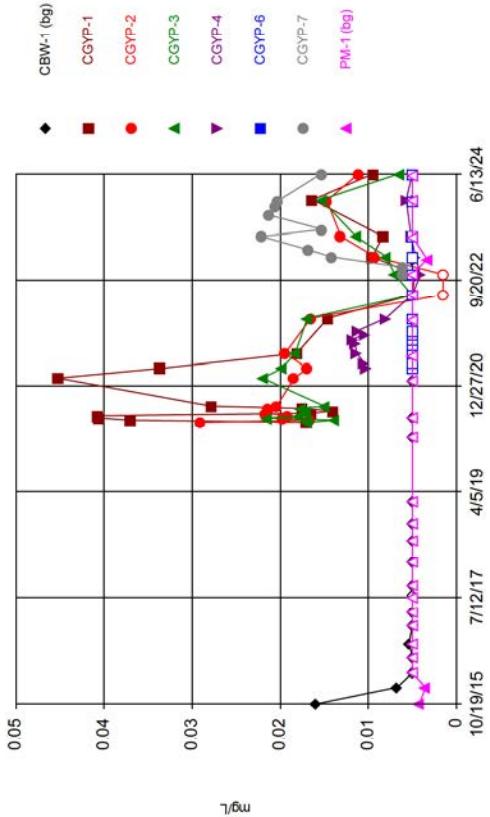
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CBW-1 (bg)	0	-22	-76	No	23	95.65	n/a	0.05	NP
Beryllium (mg/L)	CGYP-1	0	-2	-53	No	18	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-3	-0.001686	-24	-53	No	18	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-4	-0.00249	-39	-37	Yes	14	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-6	-0.0002776	-1	-37	No	14	7.143	n/a	0.05	NP
Beryllium (mg/L)	CGYP-7	-0.005137	-40	-23	Yes	10	0	n/a	0.05	NP
Beryllium (mg/L)	PM-1 (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007011	-167	-81	Yes	24	4.167	n/a	0.05	NP
Cobalt (mg/L)	CGYP-1	-0.001868	-23	-53	No	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-2	-0.00195	-61	-53	Yes	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-3	-0.01498	-53	-53	No	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-4	-0.008104	-71	-37	Yes	14	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-6	-0.006791	-13	-37	No	14	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-7	-0.02182	-27	-23	Yes	10	0	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004776	154	81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.0001137	-142	-81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CGYP-1	-0.003781	-72	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-2	-0.001981	-58	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-3	0	0	53	No	18	0	n/a	0.05	NP
Lead (mg/L)	CGYP-4	-0.001232	-33	-37	No	14	7.143	n/a	0.05	NP
Lead (mg/L)	CGYP-6	-0.002449	-28	-37	No	14	14.29	n/a	0.05	NP
Lead (mg/L)	CGYP-7	-0.0136	-25	-23	Yes	10	0	n/a	0.05	NP
Lead (mg/L)	PM-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Lithium (mg/L)	CBW-1 (bg)	0	-11	-81	No	24	95.83	n/a	0.05	NP
Lithium (mg/L)	CGYP-1	-0.000819	-41	-53	No	18	22.22	n/a	0.05	NP
Lithium (mg/L)	CGYP-2	-0.0003032	-26	-53	No	18	27.78	n/a	0.05	NP
Lithium (mg/L)	CGYP-3	-0.00779	-34	-53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	CGYP-4	0.0008745	6	37	No	14	0	n/a	0.05	NP
Lithium (mg/L)	CGYP-6	0.005159	3	37	No	14	0	n/a	0.05	NP
Lithium (mg/L)	CGYP-7	-0.002595	-12	-23	No	10	20	n/a	0.05	NP
Lithium (mg/L)	PM-1 (bg)	0	22	81	No	24	87.5	n/a	0.05	NP

FIGURE A.

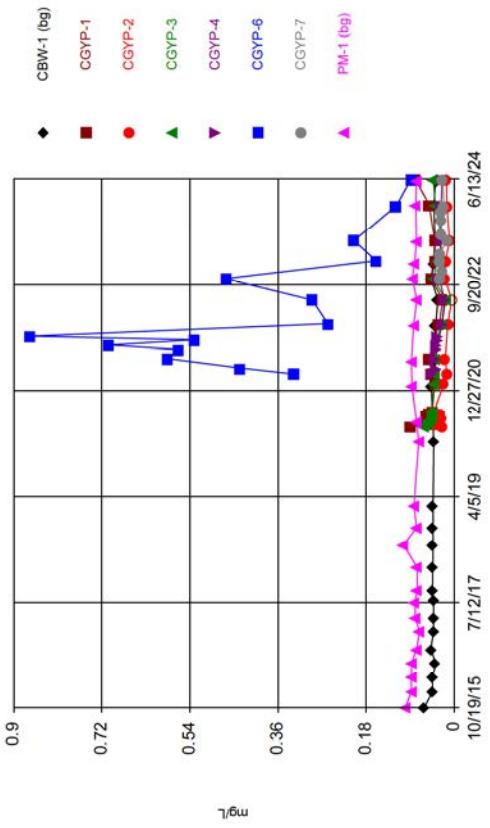
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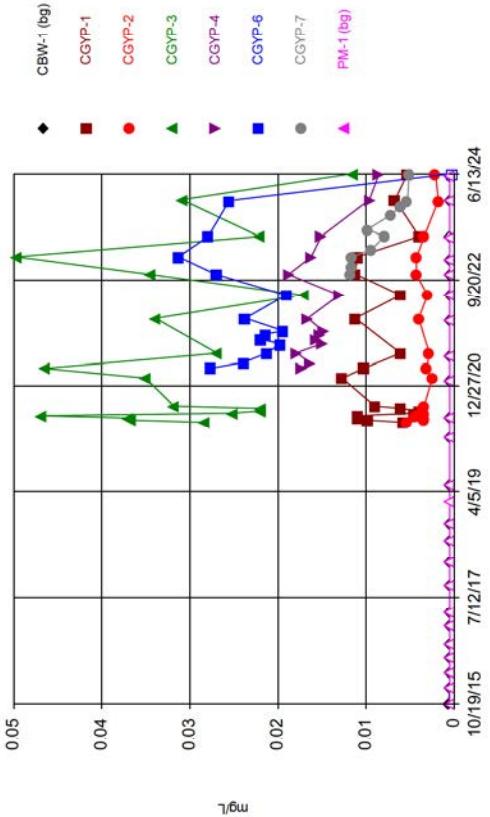
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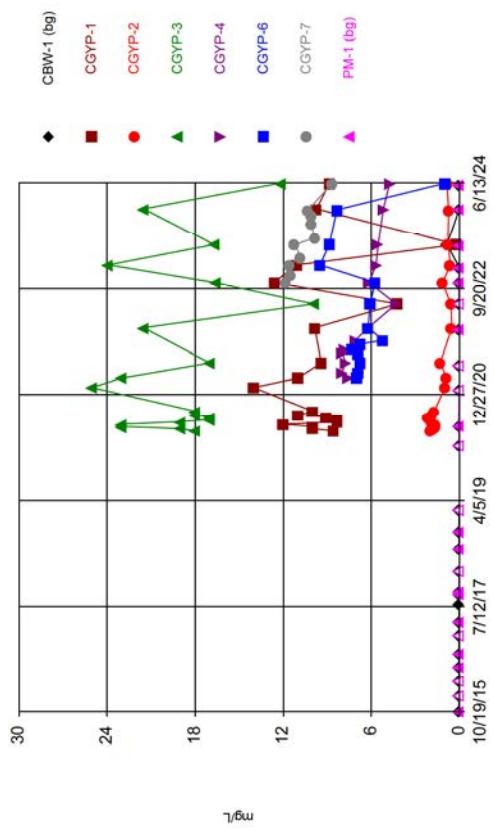
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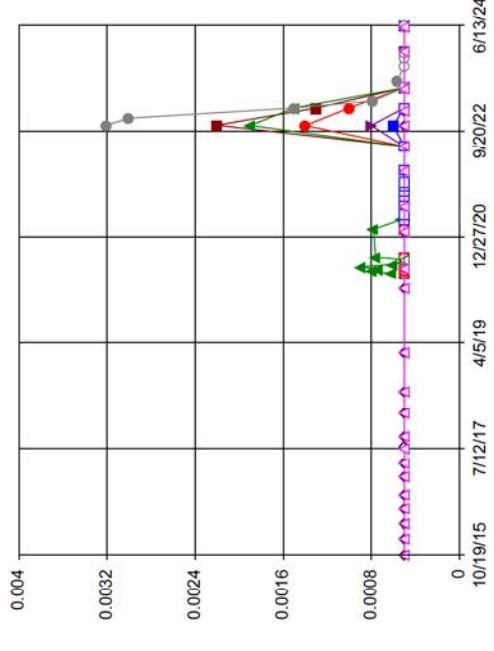
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CGYP Client: Santee Cooper Data: CGYP

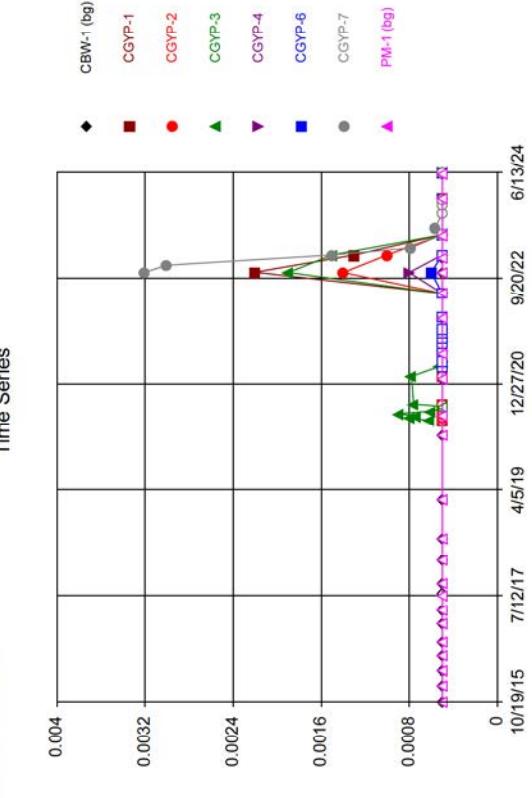
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CGYP Client: Santee Cooper Data: CGYP

Time Series

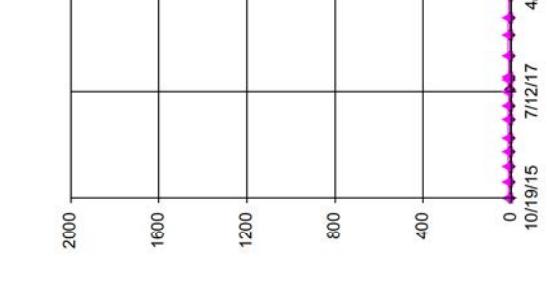
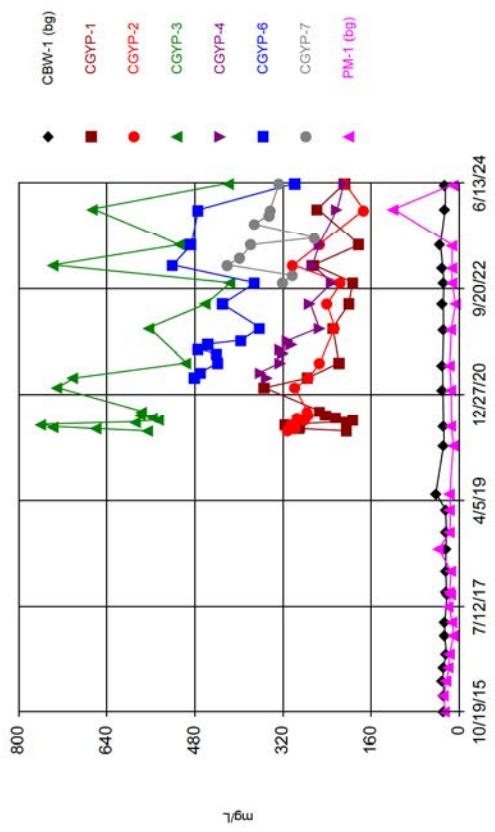


Constituent: Chloride Analysis Run 10/30/2024 11:59 AM
CGYP Client: Santee Cooper Data: CGYP

Time Series

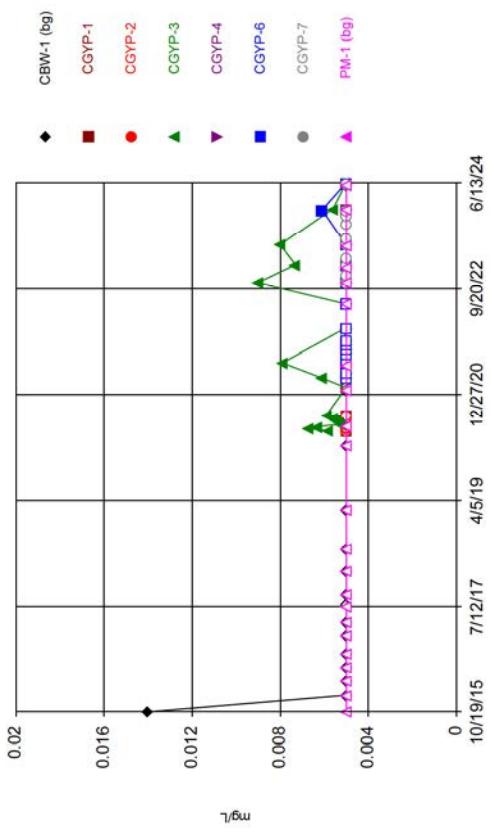


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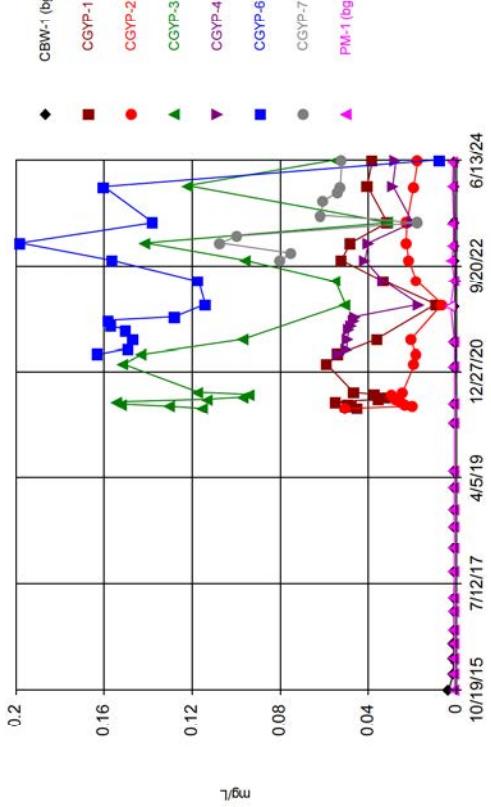


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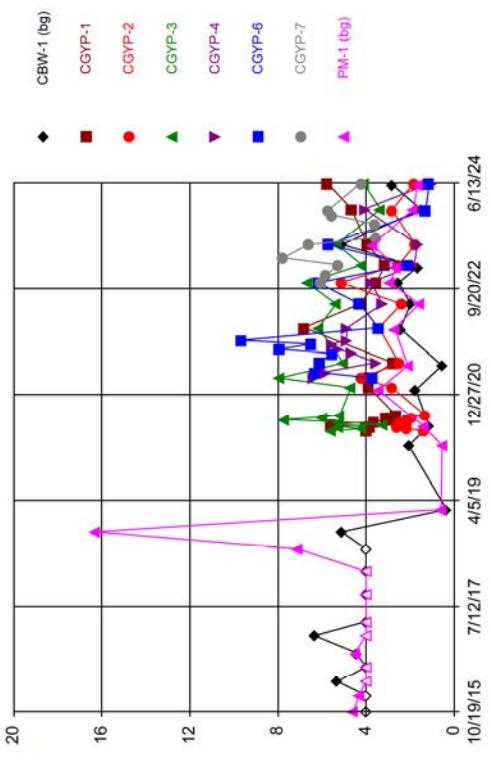
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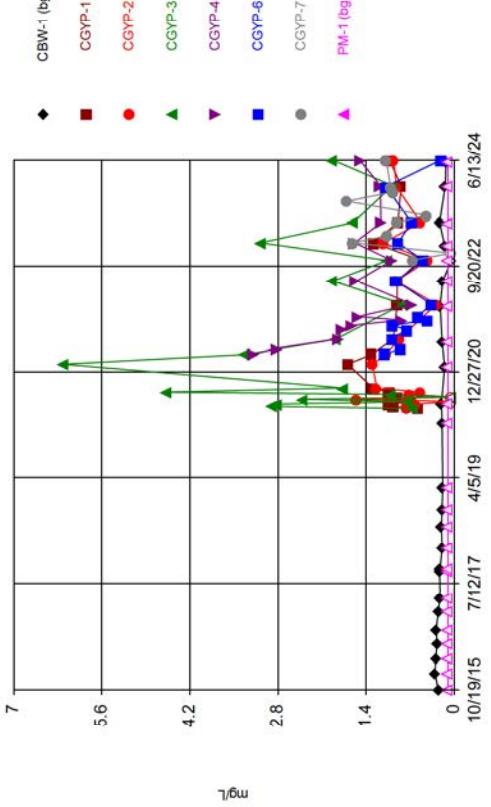
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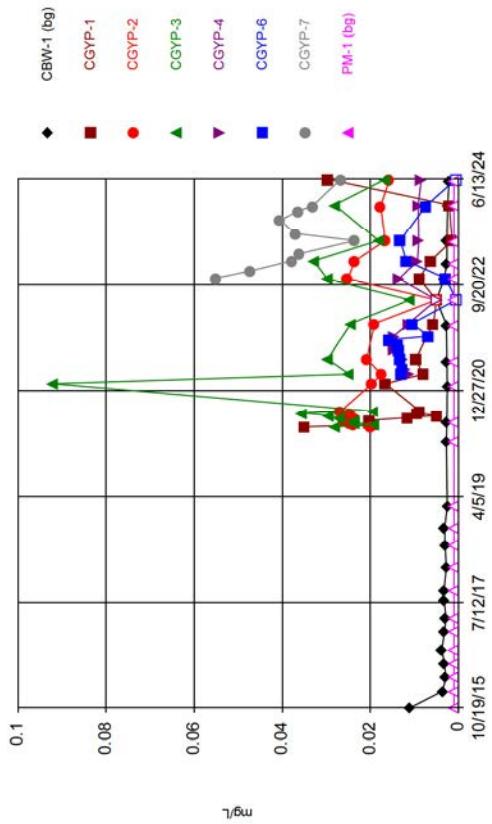
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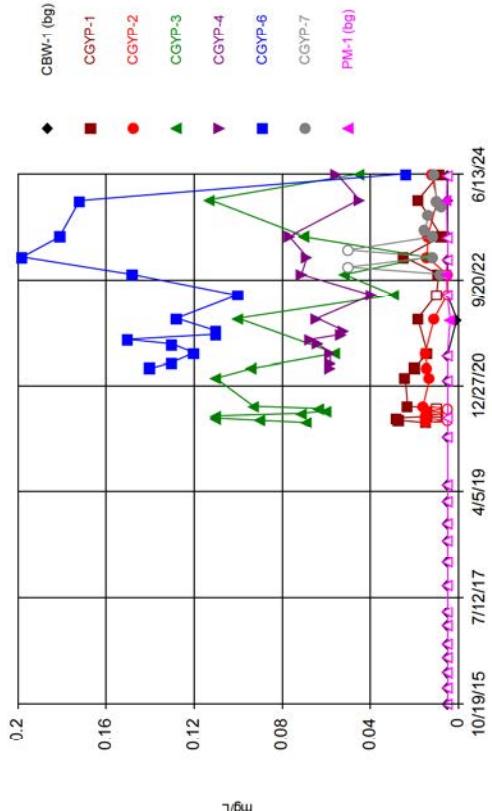
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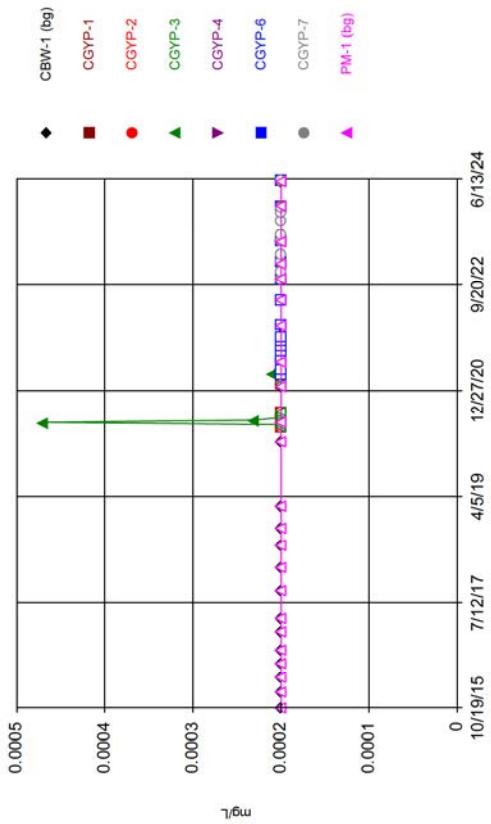
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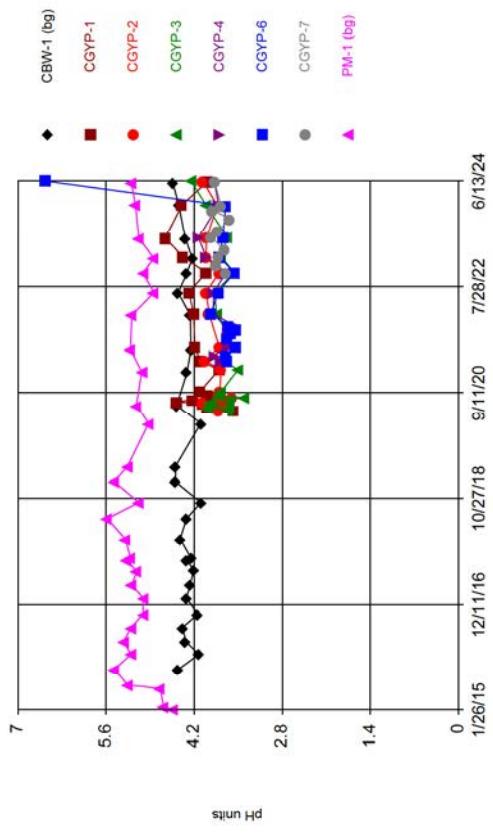
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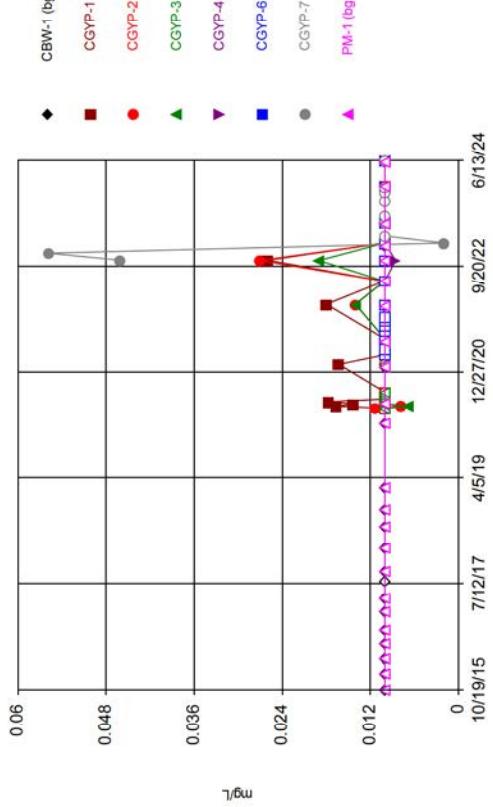
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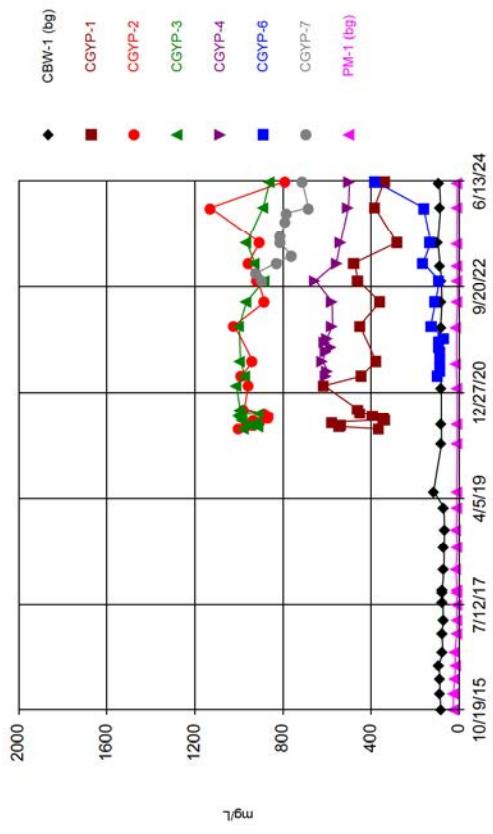
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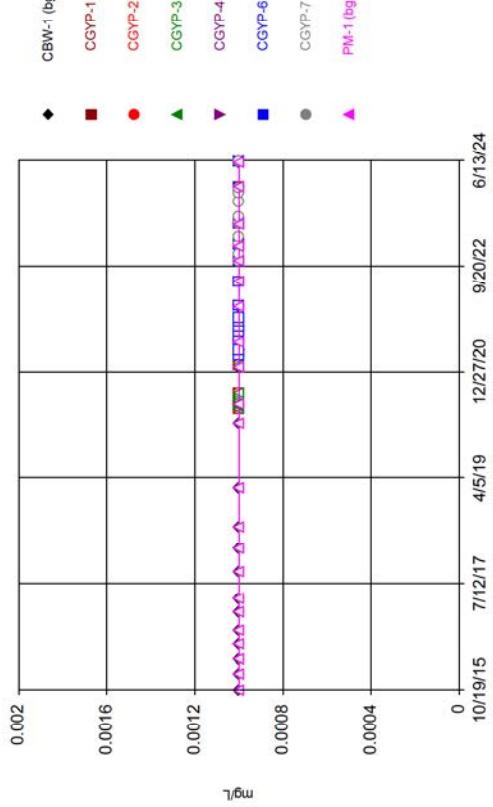
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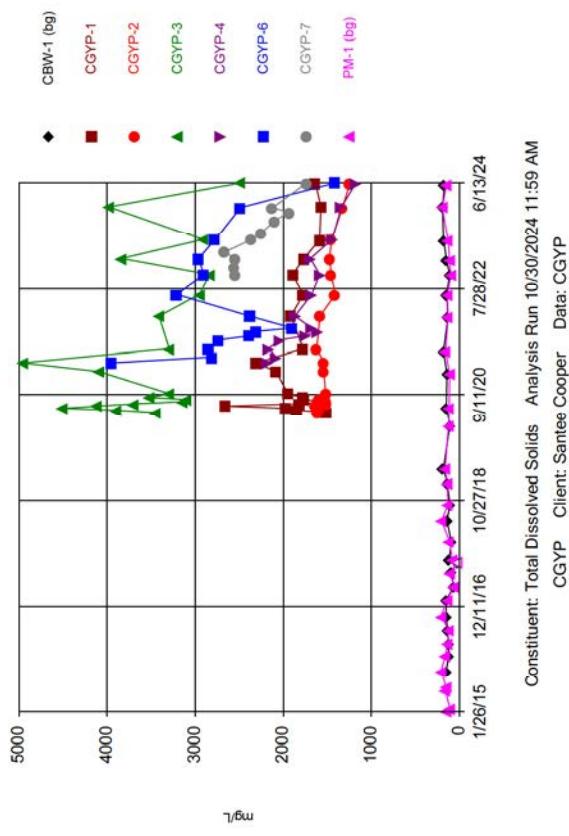
Time Series



Time Series



Time Series



Constituent: Total Dissolved Solids Analysis Run 10/30/2024 11:59 AM
CGYP Client: Santee Cooper Data: CGYP

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.005							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		<0.005	<0.005	<0.005				
6/4/2020		<0.005	<0.005	<0.005				
6/18/2020		<0.005	<0.005	<0.005				
6/22/2020	<0.005							<0.005
7/1/2020		<0.005		<0.005				
7/2/2020			<0.005					
7/16/2020		<0.005	<0.005	<0.005				
7/30/2020		<0.005	<0.005	<0.005				
8/13/2020		<0.005	<0.005	<0.005				
8/27/2020		<0.005	<0.005	<0.005				
1/26/2021	<0.005							<0.005
2/10/2021		<0.005	<0.005	<0.005				
4/7/2021		<0.005	<0.005	<0.005	<0.005	<0.005		
5/13/2021					<0.005	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		<0.005	<0.005	<0.005				
7/8/2021					<0.005	<0.005		
8/31/2021						<0.005		
9/1/2021					<0.005			
9/27/2021					<0.005	<0.005		
10/26/2021					<0.005	<0.005		
11/17/2021					<0.005	<0.005		
1/24/2022	<0.005							<0.005
1/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
10/25/2022	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005
10/26/2022		<0.005					<0.005	
12/7/2022							<0.005	
1/24/2023	<0.005							<0.005
2/6/2023			<0.005	<0.005	<0.005			
2/7/2023			<0.005			<0.005	<0.005	
3/20/2023							<0.005	
6/5/2023								<0.005
6/6/2023	<0.005	<0.005						
6/7/2023			<0.005	<0.005	<0.005	<0.005	<0.005	
7/19/2023							<0.005	
10/10/2023							0.0058	
12/5/2023							<0.005	
1/4/2024			<0.005			0.0053	<0.005	

Time Series

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Constituent: Antimony (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/8/2024	<0.005							<0.005
1/10/2024		<0.005		<0.005	<0.005			
6/4/2024	<0.005							<0.005
6/12/2024		0.0056	<0.005		<0.005		<0.005	
6/13/2024				<0.005		<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.016							0.0042
1/26/2016	0.0067							0.0035
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	0.00537							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
7/12/2017								<0.005
7/25/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
10/1/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		0.0171	0.029	0.0169				
6/4/2020		0.037	0.0167	0.0138				
6/18/2020		0.0406	0.0197	0.0215				
6/22/2020	<0.005							<0.005
7/1/2020		0.0407		0.0179				
7/2/2020			0.0191					
7/16/2020		0.0165	0.0217	0.017				
7/30/2020		0.014	0.0214	0.0171				
8/13/2020		0.0175	0.0214	0.0176				
8/27/2020		0.0278	0.0204	0.015				
1/26/2021	<0.005							<0.005
2/10/2021		0.0452	0.0184	0.022				
4/7/2021		0.0336	0.0169	0.0198	0.0103	<0.005		
5/13/2021					0.0105	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		0.0181	0.0194	0.0183				
7/8/2021					0.0113	<0.005		
8/31/2021						<0.005		
9/1/2021					0.0115			
9/27/2021					0.0118	<0.005		
10/26/2021					0.0104	<0.005		
11/17/2021					0.0112	<0.005		
1/24/2022	<0.005							<0.005
1/31/2022		0.0146	0.0165	0.0169	0.008	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.01	<0.003	<0.01	<0.01	<0.005		
10/25/2022	<0.005		<0.003	0.007	0.0041	<0.005		<0.005
10/26/2022		0.00472					0.006	
12/7/2022							0.0061	
1/24/2023	<0.005							0.00332
2/6/2023			0.00922	0.00795	0.00462			
2/7/2023			0.00956			<0.005	0.0142	
3/20/2023							0.0168	
6/5/2023								<0.005
6/6/2023	<0.005	0.00835						
6/7/2023			0.0131	0.0114	0.00514	<0.005	0.0221	
7/19/2023							0.0152	

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Constituent: Arsenic (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/10/2023							0.0212	
12/5/2023							0.0206	
1/4/2024			0.0147			<0.005	0.0202	
1/8/2024	<0.005							<0.005
1/10/2024		0.0163		0.0153	0.0057			
6/4/2024	<0.005							<0.005
6/12/2024		0.0094	0.0111		0.005		0.0153	
6/13/2024				0.0065		<0.005		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.061							0.1
1/26/2016	0.044							0.087
4/19/2016	0.0438							0.0875
7/18/2016	0.0378							0.0868
10/11/2016	0.0473							0.077
1/23/2017	0.0421							0.0703
4/17/2017	0.0418							0.0802
7/12/2017								0.0803
7/25/2017	0.0421							
9/25/2017	0.044							0.0753
2/7/2018	0.0436							0.0756
6/20/2018	0.043							0.103
10/1/2018	0.0428							0.0769
2/12/2019	0.0427							0.0817
2/24/2020	0.0413							0.0725
5/21/2020		0.0899	0.024	0.0621				
6/4/2020		0.0447	0.0378	0.0582				
6/18/2020		0.0403	0.0445	0.0502				
6/22/2020	0.0433							0.0766
7/1/2020		0.0426		0.0547				
7/2/2020			0.0439					
7/16/2020		0.0574	0.0274	0.0444				
7/30/2020		0.0575	0.0316	0.0437				
8/13/2020		0.0517	0.0289	0.0431				
8/27/2020		0.0447	0.0407	0.0459				
1/26/2021	0.0466							0.0857
2/10/2021		0.0397	0.021	0.0405				
4/7/2021		0.0448	0.0145	0.0384	0.0454	0.326		
5/13/2021					0.0375	0.437		
6/21/2021	0.0423							0.0873
7/7/2021		0.0522	0.0178	0.0378				
7/8/2021					0.0395	0.585		
8/31/2021						0.564		
9/1/2021					0.0364			
9/27/2021					0.0371	0.705		
10/26/2021					0.0336	0.529		
11/17/2021					0.0333	0.865		
1/24/2022	0.0377							0.0826
1/31/2022		0.0301	0.0125	0.0246	0.025	0.258		
6/20/2022	0.033							0.076
6/21/2022		0.023	<0.01	0.017	0.019	0.29		
10/25/2022	0.0466		0.0183	0.0422	0.0306	0.465		0.0851
10/26/2022		0.0469					0.0281	
12/7/2022							0.0248	
1/24/2023	0.0425							0.0808
2/6/2023			0.0171	0.034	0.0286			
2/7/2023		0.0391				0.159	0.0283	
3/20/2023							0.0292	
6/5/2023								0.0766
6/6/2023	0.0388	0.0392						
6/7/2023			0.00976	0.0243	0.0255	0.204	0.0147	
7/19/2023							0.0271	

Time Series

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Constituent: Barium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/10/2023							0.0258	
12/5/2023							0.0256	
1/4/2024			0.0146			0.118	0.0203	
1/8/2024	0.0413							0.0778
1/10/2024		0.0509		0.0385	0.0264			
6/4/2024	0.0374							0.0769
6/12/2024		0.0797	0.0155		0.0248		0.0238	
6/13/2024				0.0427		0.0876		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.00063							<0.0005
1/26/2016	<0.0005							<0.0005
4/19/2016	<0.0005							<0.0005
7/18/2016	<0.0005							<0.0005
10/11/2016	<0.0005							<0.0005
1/23/2017	<0.0005							<0.0005
4/17/2017	<0.0005							<0.0005
9/25/2017	<0.0005							<0.0005
2/7/2018	<0.0005							<0.0005
6/20/2018	<0.0005							<0.0005
10/1/2018	<0.0005							<0.0005
2/12/2019								<0.0005
5/20/2019	<0.0005							<0.0005
2/24/2020	<0.0005							<0.0005
5/21/2020		0.0058	0.0053	0.0283				
6/4/2020		0.0098	0.0034	0.0367				
6/18/2020		0.0109	0.0034	0.037				
6/22/2020	<0.0005							<0.0005
7/1/2020		0.011		0.0468				
7/2/2020			0.0044					
7/16/2020		0.0045	0.0034	0.0252				
7/30/2020		0.004	0.0035	0.022				
8/13/2020		0.0061	0.0036	0.022				
8/27/2020		0.009	0.0034	0.0318				
1/26/2021	<0.0005							<0.0005
2/10/2021		0.0127	0.0025	0.035				
4/7/2021		0.0103	0.0031	0.0465	0.0174	0.0277		
5/13/2021					0.0164	0.0239		
6/21/2021	<0.0005							<0.0005
7/7/2021		0.0061	0.0028	0.0269				
7/8/2021					0.0179	0.0212		
8/31/2021						0.0197		
9/1/2021					0.015			
9/27/2021					0.0156	0.0219		
10/26/2021					0.0152	0.0214		
11/17/2021					0.0149	0.0194		
1/24/2022	<0.0005							<0.0005
1/31/2022		0.0112	0.004	0.0339	0.0166	0.0237		
6/20/2022	<0.0005							<0.0005
6/21/2022		0.006	0.003	0.017	0.013	0.019		
10/25/2022	<0.0005			0.0043	0.0345	0.0188	0.027	
10/26/2022		0.0112					0.0117	
12/7/2022							0.0116	
1/24/2023	<0.0005							<0.0005
2/6/2023			0.00424	0.0497	0.0162			
2/7/2023		0.011				0.0313	0.0116	
3/20/2023							0.00944	
6/5/2023								<0.0005
6/6/2023	<0.0005	0.00398						
6/7/2023			0.00341	0.0221	0.0151	0.0279	0.00791	
7/19/2023							0.00982	
10/10/2023							0.0072	

Time Series

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Constituent: Beryllium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.006	
1/4/2024			0.0018			0.0255	0.0053	
1/8/2024	<0.0005							<0.0005
1/10/2024		0.0067		0.0309	0.0096			
6/4/2024	<0.0005							<0.0005
6/12/2024		0.0053	0.0021		0.0085		0.0051	
6/13/2024				0.0115		<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.032							0.0178
1/26/2016	0.0218							<0.015
4/19/2016	0.0183							<0.015
7/18/2016	0.0217							0.0163
10/11/2016	0.0302							0.0165
1/23/2017	0.0249							<0.015
4/17/2017	0.018							0.019
7/25/2017	0.022							
9/25/2017	0.024							0.018
10/9/2017	0.023							0.021
2/7/2018	0.018							<0.015
6/20/2018	0.02							0.016
10/1/2018	0.025							0.015
2/12/2019	<0.04							<0.015
2/24/2020	0.017							<0.015
5/21/2020		8.6	2	18				
6/4/2020		10	1.7	19				
6/18/2020		10	1.6	23				
6/22/2020	0.018							0.049
7/1/2020		12		23				
7/2/2020			1.6					
7/16/2020		8.3	1.9	19				
7/30/2020		8.3	2	17				
8/13/2020		9.1	2.1	17				
8/27/2020		11	1.9	18				
9/21/2020		10	1.7	18				
1/26/2021	0.018							<0.015
2/10/2021		14	0.96	25				
4/7/2021		11	0.85	23	7.6	7		
5/13/2021					8	6.9		
6/21/2021	<0.04							<0.015
7/7/2021		9.4	1.3	17				
7/8/2021					7.7	6.7		
8/31/2021						6.9		
9/1/2021					8			
9/27/2021					7.8	7.3		
10/26/2021					6.8	6.7		
11/17/2021					7.1	5.2		
1/24/2022	0.0139							0.011
1/31/2022		9.84	0.51	21.5	6.21	6.2		
6/20/2022	0.015							<0.015
6/21/2022		4.2	0.57	9.9	4.3	6.1		
10/25/2022	0.0203		1.14	16.6	6.13	5.71		0.0437
10/26/2022		12.6					11.8	
12/7/2022							11.5	
1/24/2023	0.0175							0.0114
2/6/2023			0.602	23.9	5.67			
2/7/2023		11.1				9.49	11.6	
3/20/2023							10.8	
6/5/2023								0.0184
6/6/2023	0.836	0.191						
6/7/2023			0.781	16.7	5.53	8.85	11.2	

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Constituent: Boron (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
7/19/2023							9.81	
10/10/2023							10.1	
12/5/2023							10.1	
1/4/2024			0.727			8.33	10.3	
1/8/2024	0.0193							0.0142
1/10/2024		9.72		21.5	5.18			
6/4/2024	0.0196							0.0124
6/12/2024		8.84	0.829		4.73		8.65	
6/13/2024				12.2		0.925		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.0005							<0.0005
1/26/2016	<0.0005							<0.0005
4/19/2016	<0.0005							<0.0005
7/18/2016	<0.0005							<0.0005
10/11/2016	<0.0005							<0.0005
1/23/2017	<0.0005							<0.0005
4/17/2017	<0.0005							<0.0005
7/12/2017								<0.0005
7/25/2017	<0.0005							
9/25/2017	<0.0005							<0.0005
2/7/2018	<0.0005							<0.0005
6/20/2018	<0.0005							<0.0005
2/12/2019	<0.0005							<0.0005
2/24/2020	<0.0005							<0.0005
5/21/2020		<0.0005	<0.0005	0.00062				
6/4/2020		<0.0005	<0.0005	0.0008				
6/18/2020		<0.0005	<0.0005	0.00074				
6/22/2020	<0.0005							<0.0005
7/1/2020		<0.0005		0.0009				
7/2/2020			<0.0005					
7/16/2020		<0.0005	<0.0005	0.00061				
7/30/2020		<0.0005	<0.0005	<0.0005				
8/13/2020		<0.0005	<0.0005	<0.0005				
8/27/2020		<0.0005	<0.0005	0.00076				
1/26/2021	<0.0005							<0.0005
2/10/2021		<0.0005	<0.0005	0.00078				
4/7/2021		<0.0005	<0.0005	0.00053	<0.0005	<0.0005		
5/13/2021					<0.0005	<0.0005		
6/21/2021	<0.0005							<0.0005
7/7/2021		<0.0005	<0.0005	<0.0005				
7/8/2021					<0.0005	<0.0005		
8/31/2021						<0.0005		
9/1/2021						<0.0005		
9/27/2021						<0.0005	<0.0005	
10/26/2021						<0.0005	<0.0005	
11/17/2021						<0.0005	<0.0005	
1/24/2022	<0.0005							<0.0005
1/31/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
6/20/2022	<0.0005							<0.0005
6/21/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
10/25/2022	<0.0005		0.0014	0.0019	0.0008	0.0006		<0.0005
10/26/2022		0.0022					0.0032	
12/7/2022							0.003	
1/24/2023	<0.0005							<0.0005
2/6/2023			0.001	0.0015	<0.0005			
2/7/2023		0.0013				<0.0005	0.0015	
3/20/2023							0.00079	
6/5/2023								<0.0005
6/6/2023	<0.0005	<0.0005						
6/7/2023			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
7/19/2023							0.00056	
10/10/2023							<0.0005	

Time Series

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Constituent: Cadmium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							<0.0005	
1/4/2024			<0.0005			<0.0005	<0.0005	
1/8/2024	<0.0005							<0.0005
1/10/2024		<0.0005		<0.0005	<0.0005			
6/4/2024	<0.0005							<0.0005
6/12/2024		<0.0005	<0.0005		<0.0005		<0.0005	
6/13/2024				<0.0005		<0.0005		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	27							26
1/26/2016	27							27
4/19/2016	29.4							23.3
7/18/2016	28.7							18.8
10/11/2016	22.7							16.4
1/23/2017	26.2							10.4
4/17/2017	25.6							12.5
7/12/2017								18.5
9/25/2017	21.9							15.4
10/9/2017	23							17
2/7/2018	24							14.7
6/20/2018	24							37
10/1/2018	22.7							16.6
2/12/2019	24.4							15.9
5/20/2019	42.2							16.4
2/24/2020	28.2							11
5/21/2020		204	311	564				
6/4/2020		290	298	658				
6/18/2020		289	299	737				
6/22/2020	28.4							13.5
7/1/2020		315		759				
7/2/2020			305					
7/16/2020		204	295	587				
7/30/2020		192	279	545				
8/13/2020		224	293	556				
8/27/2020		242	272	579				
9/21/2020		252	276	576				
1/26/2021	29.2							14.3
2/10/2021		353	298	729				
4/7/2021		276	273	700	348	480		
5/13/2021					360	468		
6/21/2021	29.9							17
7/7/2021		218	253	495				
7/8/2021					324	438		
8/31/2021						441		
9/1/2021					319			
9/27/2021					325	474		
10/26/2021					304	455		
11/17/2021					310	396		
1/24/2022	27.9							14.4
1/31/2022		229	226	563	254	362		
6/20/2022	29							6.2
6/21/2022		200	240	460	270	430		
10/25/2022	27.5		214	415	231	370		13.1
10/26/2022		193					320	
12/7/2022							303	
1/24/2023	29.3							12.6
2/6/2023			301	737	266			
2/7/2023		264				520	420	
3/20/2023							397	
6/5/2023								12.7
6/6/2023	33.9	181						

Time Series

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Constituent: Calcium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
6/7/2023			254	508	254	486	377	
7/19/2023							262	
10/10/2023							372	
12/5/2023							345	
1/4/2024			173			474	343	
1/8/2024	25							119
1/10/2024		257		665	221			
6/4/2024	24.7							10.5
6/12/2024		207	208		209		327	
6/13/2024				418		297		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

Time Series

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Constituent: Chloride (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
6/6/2023	3.73	679						
6/7/2023			55.9	872	353	1070	683	
7/19/2023							648	
10/10/2023							575	
12/5/2023							638	
1/4/2024			59.3			1150	802	
1/8/2024	3.48							12.8
1/10/2024		733		1150	334			
6/4/2024	3.22							12.1
6/12/2024		707	45.7		307		558	
6/13/2024				699		167		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.014							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
7/12/2017								<0.005
7/25/2017	<0.005							
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		<0.005	<0.005	0.0058				
6/4/2020		<0.005	<0.005	0.0067				
6/18/2020		<0.005	<0.005	0.0063				
6/22/2020	<0.005							<0.005
7/1/2020		<0.005		0.0052				
7/2/2020			<0.005					
7/16/2020		<0.005	<0.005	0.0053				
7/30/2020		<0.005	<0.005	0.0055				
8/13/2020		<0.005	<0.005	0.0056				
8/27/2020		<0.005	<0.005	0.0059				
1/26/2021	<0.005							<0.005
2/10/2021		<0.005	<0.005	<0.005				
4/7/2021		<0.005	<0.005	0.0061	<0.005	<0.005		
5/13/2021					<0.005	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		<0.005	<0.005	0.0079				
7/8/2021					<0.005	<0.005		
8/31/2021						<0.005		
9/1/2021					<0.005			
9/27/2021					<0.005	<0.005		
10/26/2021					<0.005	<0.005		
11/17/2021					<0.005	<0.005		
1/24/2022	<0.005							
1/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
10/25/2022	<0.005		<0.005	0.009	<0.005	<0.005		<0.005
10/26/2022		<0.005						<0.005
12/7/2022								<0.005
1/24/2023	<0.005							<0.005
2/6/2023			<0.005	0.0073	<0.005			
2/7/2023		<0.005				<0.005	<0.005	
3/20/2023							<0.005	
6/5/2023								<0.005
6/6/2023	<0.005	<0.005						
6/7/2023				<0.005	0.008	<0.005	<0.005	
7/19/2023							<0.005	
10/10/2023							<0.005	

Time Series

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Constituent: Chromium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							<0.005	
1/4/2024			<0.005			0.0061	<0.005	
1/8/2024	<0.005							<0.005
1/10/2024		<0.005		0.0056	<0.005			
6/4/2024	<0.005							<0.005
6/12/2024		<0.005	<0.005		<0.005		<0.005	
6/13/2024				<0.005		<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.0034							0.001
1/26/2016	0.0013							0.0009
4/19/2016	0.00116							0.00079
7/18/2016	0.00115							0.00085
10/11/2016	0.00109							0.000851
1/23/2017	0.001							0.00093
4/17/2017	0.0011							0.00098
9/25/2017	0.00086							0.00091
2/7/2018	0.00088							0.00089
6/20/2018	0.001							0.001
10/1/2018	0.00076							0.00084
2/12/2019	0.00084							0.00091
5/20/2019	0.00079							0.00091
2/24/2020	0.00082							0.001
5/21/2020		0.0448	0.0506	0.115				
6/4/2020		0.0479	0.0199	0.13				
6/18/2020		0.0492	0.0229	0.152				
6/22/2020	0.0008							0.001
7/1/2020		0.0548		0.154				
7/2/2020			0.025					
7/16/2020		0.0353	0.027	0.113				
7/30/2020		0.032	0.028	0.0966				
8/13/2020		0.0371	0.0294	0.0936				
8/27/2020		0.0467	0.0244	0.117				
1/26/2021	0.00066							0.001
2/10/2021		0.0587	0.019	0.151				
4/7/2021		0.0536	0.0183	0.143	0.0532	0.163		
5/13/2021					0.0498	0.149		
6/21/2021	0.0007							0.00094
7/7/2021		0.0362	0.0206	0.0967				
7/8/2021					0.0494	0.147		
8/31/2021						0.15		
9/1/2021					0.0487			
9/27/2021					0.0478	0.157		
10/26/2021					0.0463	0.158		
11/17/2021					0.0461	0.128		
1/24/2022	0.00073							<0.005
1/31/2022		0.00931	0.00644	0.0504	0.0168	0.114		
6/20/2022	<0.001							0.001
6/21/2022		0.033	0.018	0.055	0.033	0.117		
10/25/2022	0.00063		0.0215	0.0956	0.0415	0.156		0.00189
10/26/2022		0.0523					0.0797	
12/7/2022							0.0752	
1/24/2023	0.00076							0.00136
2/6/2023			0.0227	0.141	0.0399			
2/7/2023		0.048				0.198	0.107	
3/20/2023							0.0994	
6/5/2023								0.00119
6/6/2023	0.000814	0.0315						
6/7/2023			0.0224	0.0311	0.0199	0.138	0.0178	
7/19/2023							0.0615	
10/10/2023							0.0604	

Time Series

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Constituent: Cobalt (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.0535	
1/4/2024			0.0194			0.16	0.0526	
1/8/2024	0.00087							0.0016
1/10/2024		0.0404		0.122	0.0289			
6/4/2024	0.00084							0.0014
6/12/2024		0.038	0.0173		0.0274		0.052	
6/13/2024				0.0544		0.0074		

Time Series

Constituent: Combined Radium 226 & 228 (pci/l) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<4							4.59
1/26/2016	<4							4.31
4/19/2016	5.31							<4
7/18/2016	<4							<4
10/11/2016	4.43							4.49
1/23/2017	6.34							<4
4/17/2017	<4							<4
9/25/2017	<4							<4
2/7/2018	<4							<4
6/20/2018	<4							7.09
10/1/2018	5.11							16.3
2/12/2019	0.346							0.585
2/24/2020	2.06							0.538
5/21/2020		3.97	1.34	5.59				
6/4/2020		3.96	2.14	4.18				
6/18/2020		3.79	2.61	5.24				
6/22/2020	1.14							1.38
7/1/2020		5.58		3.26				
7/2/2020			2.13					
7/16/2020		3.65	2.46	5.25				
7/30/2020		2.93	2.15	7.74				
8/13/2020		3.07	1.91	5.99				
8/27/2020		2.64	1.3	5.2				
1/26/2021	1.73							3.44
2/10/2021		3.86	2.83	4.69				
4/7/2021		3.89	4.18	7.93	6.37	3.68		
5/13/2021					5.84	6.31		
6/21/2021	0.552							2.1
7/7/2021		2.77	2.5	5.03				
7/8/2021					3.56	6.08		
8/31/2021						5.53		
9/1/2021					4.64			
9/27/2021					5.29	7.93		
10/26/2021					5.56	6.48		
11/17/2021					4.9	9.69		
1/24/2022	2.44							2.69
1/31/2022		6.81	3.4	6.17	4.85	3.44		
6/20/2022	1.98							1.59
6/21/2022		4.28	2.39	5.36	3.24	4.3		
10/25/2022	2.51		5.12	6.68	3.77	6.17		2.9
10/26/2022		3.53					6.04	
12/7/2022							5.82	
1/24/2023	1.66							2.63
2/6/2023			2.52	4.18	1.81			
2/7/2023		3.13				2.08	5.27	
3/20/2023							7.77	
6/5/2023								3.7
6/6/2023	5.08	3.94						
6/7/2023			1.77	5.33	1.67	5.69	6.6	
7/19/2023							3.55	
10/10/2023							3.58	
12/5/2023							5.52	

Time Series

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Constituent: Combined Radium 226 & 228 (pci/l) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/4/2024			2.827			1.282	5.704	
1/8/2024	1.498							1.852
1/10/2024		4.66		3.349	4.06			
6/4/2024	2.8211							1.648
6/12/2024		5.75	1.827		1.0323		4.229	
6/13/2024				4.12		1.12		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.25							<0.1
1/26/2016	0.3							<0.1
4/19/2016	0.29							<0.1
7/18/2016	0.27							<0.1
10/11/2016	0.28							<0.1
1/23/2017	0.25							<0.1
4/17/2017	0.22							<0.1
9/25/2017	0.23							<0.1
10/9/2017	0.22							<0.1
2/7/2018	0.19							<0.1
6/20/2018	0.2							<0.1
10/1/2018	0.19							<0.1
2/12/2019	0.18							<0.1
2/24/2020	0.19							<0.1
5/21/2020		0.58	0.75	0.65				
6/4/2020		0.96	0.75	2.89				
6/18/2020		1.05	0.62	2.82				
6/22/2020	0.2							<0.1
7/1/2020		0.69		0.73				
7/2/2020			<0.1					
7/16/2020		0.72	1.55	2.41				
7/30/2020		0.91	<0.1	<0.1				
8/13/2020		1.04	0.71	1				
8/27/2020		1.02	0.54	4.57				
9/21/2020		1.29	1.23	1.77				
1/26/2021	0.15							<0.1
2/10/2021		1.69	1.3	6.22				
4/7/2021		1.31	1.08	3.32	3.19	1.1		
5/13/2021					2.82	0.84		
6/21/2021	0.19							<0.1
7/7/2021		0.97	0.87	1.88				
7/8/2021					1.85	0.99		
8/31/2021						0.75		
9/1/2021					1.79			
9/27/2021					1.63	0.98		
10/26/2021					0.83	0.42		
11/17/2021					1.53	0.58		
1/24/2022	0.22							<0.1
1/31/2022		0.9	0.28	0.81	0.67	0.36		
6/20/2022	0.18							<0.1
6/21/2022		0.91	0.93	1.94	1.56	0.93		
10/25/2022	<0.1		0.42	1.06	0.99	0.49		<0.1
10/26/2022		0.53					0.66	
12/7/2022							<0.1	
1/24/2023	0.15							<0.1
2/6/2023			1.12	3.08	1.58			
2/7/2023		1.28				0.89	1.61	
3/20/2023							1.06	
6/5/2023								<0.1
6/6/2023	0.23	0.89					0.91	
6/7/2023			0.53	1.6	1.16	0.68		
7/19/2023							0.44	

Time Series

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Constituent: Fluoride (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/10/2023							1.7	
12/5/2023							0.96	
1/4/2024			0.92			1.08	1.01	
1/8/2024	0.14							<0.1
1/10/2024		0.84		0.98	1.17			
6/4/2024	0.13							<0.1
6/12/2024		1.03	0.96		1.5		1.08	
6/13/2024				1.94		0.2		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	0.011							<0.001
1/26/2016	0.0036							<0.001
4/19/2016	0.0028							<0.001
7/18/2016	0.00318							<0.001
10/11/2016	0.00375							<0.001
1/23/2017	0.0031							<0.001
4/17/2017	0.0028							<0.001
7/25/2017	0.0032							
9/25/2017	0.0032							<0.001
2/7/2018	0.0027							<0.001
6/20/2018	0.003							<0.001
10/1/2018	0.0031							<0.001
2/12/2019	0.0025							<0.001
2/24/2020	0.0027							<0.001
5/21/2020		0.035	0.02	0.0279				
6/4/2020		0.0191	0.0238	0.019				
6/18/2020		0.0201	0.0247	0.0236				
6/22/2020	0.0026							<0.001
7/1/2020		0.0202		0.0236				
7/2/2020			0.026					
7/16/2020		0.0116	0.0235	0.0269				
7/30/2020		0.005	0.0244	0.0295				
8/13/2020		0.0093	0.0247	0.0355				
8/27/2020		0.0087	0.0268	0.0193				
1/26/2021	0.0025							<0.001
2/10/2021		0.0165	0.0196	0.092				
4/7/2021		0.008	0.0175	0.0248	0.0113	0.013		
5/13/2021					0.0122	0.0127		
6/21/2021	0.0026							<0.001
7/7/2021		0.0097	0.0208	0.0297				
7/8/2021					0.0126	0.0131		
8/31/2021						0.0136		
9/1/2021					0.0146			
9/27/2021					0.0147	0.0137		
10/26/2021					0.0145	0.0158		
11/17/2021					0.0147	0.0068		
1/24/2022	0.0027							<0.001
1/31/2022		0.0056	0.019	0.0244	0.0113	0.0105		
6/20/2022	<0.01							<0.001
6/21/2022		<0.01	<0.01	0.011	<0.01	<0.001		
10/25/2022	0.0032		0.0251	0.0298	0.0134	0.0028		<0.001
10/26/2022		0.0089					0.0551	
12/7/2022							0.0473	
1/24/2023	0.00259							<0.001
2/6/2023			0.0234	0.0328	0.00927			
2/7/2023		0.00625				0.0118	0.0378	
3/20/2023							0.0361	
6/5/2023								<0.001
6/6/2023	0.00255	0.00144						
6/7/2023			0.0166	0.0181	0.00896	0.0132	0.0234	
7/19/2023							0.037	
10/10/2023							0.0404	

Time Series

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Constituent: Lead (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.0363	
1/4/2024			0.0176			0.0074	0.0331	
1/8/2024	0.0024							<0.001
1/10/2024		0.0021		0.0281	0.0091			
6/4/2024	0.0021							<0.001
6/12/2024		0.0298	0.0156		0.0084		0.0267	
6/13/2024				0.0165		<0.001		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/30/2024 11:59 AM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.005							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
10/1/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
5/20/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		0.015	0.015	0.069				
6/4/2020		0.027	<0.005	0.09				
6/18/2020		0.028	0.015	0.11				
6/22/2020	<0.005							<0.005
7/1/2020		<0.01		0.11				
7/2/2020			0.015					
7/16/2020		0.01	<0.005	0.071				
7/30/2020		<0.01	0.014	0.06				
8/13/2020		<0.01	<0.005	0.063				
8/27/2020		0.023	0.016	0.093				
1/26/2021	<0.005							<0.005
2/10/2021		0.024	0.013	0.11				
4/7/2021		0.02	0.014	0.094	0.058	0.14		
5/13/2021					0.058	0.13		
6/21/2021	<0.005							<0.005
7/7/2021		0.014	0.015	0.056				
7/8/2021					0.058	0.12		
8/31/2021						0.13		
9/1/2021					0.064			
9/27/2021					0.067	0.15		
10/26/2021					0.053	0.11		
11/17/2021					0.052	0.11		
1/24/2022	0.00066							0.0037
1/31/2022		0.0183	0.0109	0.1	0.0642	0.128		
6/20/2022	<0.005							<0.005
6/21/2022		<0.01	<0.005	0.029	0.039	0.1		
10/25/2022	<0.005		<0.005	0.0517	0.0712	0.148		0.00544
10/26/2022		0.00893					0.00785	
12/7/2022							<0.05	
1/24/2023	<0.005							<0.005
2/6/2023			0.0142	0.0143	0.0687			
2/7/2023		0.0247				0.198	0.0116	
3/20/2023							<0.05	
6/5/2023								<0.005
6/6/2023	<0.005	0.00779						
6/7/2023			0.0139	0.0701	0.0766	0.181	0.0115	
7/19/2023							0.0151	
10/10/2023							0.0135	

Time Series

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Constituent: Lithium (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							0.00732	
1/4/2024			0.00952			0.172	0.01	
1/8/2024	<0.005							0.00526
1/10/2024		0.0182		0.113	0.0449			
6/4/2024	<0.005						<0.005	
6/12/2024		0.00838	0.0122		0.0553		0.011	
6/13/2024				0.0447		0.0237		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.0002							<0.0002
1/26/2016	<0.0002							<0.0002
4/19/2016	<0.0002							<0.0002
7/18/2016	<0.0002							<0.0002
10/11/2016	<0.0002							<0.0002
1/23/2017	<0.0002							<0.0002
4/17/2017	<0.0002							<0.0002
9/25/2017	<0.0002							<0.0002
2/7/2018	<0.0002							<0.0002
6/20/2018	<0.0002							<0.0002
10/1/2018	<0.0002							<0.0002
2/12/2019	<0.0002							<0.0002
2/24/2020	<0.0002							<0.0002
5/21/2020		<0.0002	<0.0002	<0.0002				
6/4/2020		<0.0002	<0.0002	<0.0002				
6/18/2020		<0.0002	<0.0002	0.00047				
6/22/2020	<0.0002							<0.0002
7/1/2020		0.0002		0.00023				
7/2/2020			<0.0002					
7/16/2020		<0.0002	<0.0002	<0.0002				
7/30/2020		<0.0002	<0.0002	<0.0002				
8/13/2020		<0.0002	<0.0002	<0.0002				
8/27/2020		<0.0002	<0.0002	<0.0002				
1/26/2021	<0.0002							<0.0002
2/10/2021		<0.0002	<0.0002	<0.0002				
4/7/2021		<0.0002	<0.0002	0.00021	<0.0002	<0.0002		
5/13/2021					<0.0002	<0.0002		
6/21/2021	<0.0002							<0.0002
7/7/2021		<0.0002	<0.0002	<0.0002				
7/8/2021					<0.0002	<0.0002		
8/31/2021						<0.0002		
9/1/2021						<0.0002		
9/27/2021						<0.0002	<0.0002	
10/26/2021						<0.0002	<0.0002	
11/17/2021						<0.0002	<0.0002	
1/24/2022	<0.0002							<0.0002
1/31/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
6/20/2022	<0.0002							<0.0002
6/21/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/25/2022	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/26/2022		<0.0002						<0.0002
12/7/2022								<0.0002
1/24/2023	<0.0002							<0.0002
2/6/2023			<0.0002	<0.0002	<0.0002			
2/7/2023			<0.0002			<0.0002	<0.0002	
3/20/2023							<0.0002	
6/5/2023								<0.0002
6/6/2023	<0.0002	<0.0002						
6/7/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/19/2023								<0.0002
10/10/2023								<0.0002
12/5/2023								<0.0002

Time Series

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Constituent: Mercury (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/4/2024			<0.0002			<0.0002	<0.0002	
1/8/2024	<0.0002							<0.0002
1/10/2024		<0.0002		<0.0002	<0.0002			
6/4/2024	<0.0002							<0.0002
6/12/2024		<0.0002	<0.0002		<0.0002		<0.0002	
6/13/2024				<0.0002		<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.005							<0.005
1/26/2016	<0.005							<0.005
4/19/2016	<0.005							<0.005
7/18/2016	<0.005							<0.005
10/11/2016	<0.005							<0.005
1/23/2017	<0.005							<0.005
4/17/2017	<0.005							<0.005
9/25/2017	<0.005							<0.005
2/7/2018	<0.005							<0.005
6/20/2018	<0.005							<0.005
2/12/2019	<0.005							<0.005
2/24/2020	<0.005							<0.005
5/21/2020		<0.005	<0.005	<0.005				
6/4/2020		<0.005	<0.005	<0.005				
6/18/2020		<0.005	<0.005	<0.005				
6/22/2020	<0.005							<0.005
7/1/2020		<0.005		<0.005				
7/2/2020			<0.005					
7/16/2020		<0.005	<0.005	<0.005				
7/30/2020		<0.005	<0.005	<0.005				
8/13/2020		<0.005	<0.005	<0.005				
8/27/2020		<0.005	<0.005	<0.005				
1/26/2021	<0.005							<0.005
2/10/2021		<0.005	<0.005	<0.005				
4/7/2021		<0.005	<0.005	<0.005	<0.005	<0.005		
5/13/2021					<0.005	<0.005		
6/21/2021	<0.005							<0.005
7/7/2021		<0.005	<0.005	<0.005				
7/8/2021					<0.005	<0.005		
8/31/2021						<0.005		
9/1/2021					<0.005			
9/27/2021					<0.005	<0.005		
10/26/2021					<0.005	<0.005		
11/17/2021					<0.005	<0.005		
1/24/2022	<0.005							<0.005
1/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
6/20/2022	<0.005							<0.005
6/21/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
10/25/2022	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005
10/26/2022		<0.005					<0.005	
12/7/2022							<0.005	
1/24/2023	<0.005							<0.005
2/6/2023			<0.005	<0.005	<0.005			
2/7/2023			<0.005			<0.005	<0.005	
3/20/2023							<0.005	
6/5/2023								<0.005
6/6/2023	<0.005	<0.005						
6/7/2023			<0.005	<0.005	<0.005	<0.005	<0.005	
7/19/2023							<0.005	
10/10/2023							<0.005	
12/5/2023							<0.005	
1/4/2024			<0.005			<0.005	<0.005	

Time Series

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Constituent: Molybdenum (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/8/2024	<0.005							<0.005
1/10/2024		<0.005		<0.005	<0.005			
6/4/2024	<0.005							<0.005
6/12/2024		<0.005	<0.005		<0.005		<0.005	
6/13/2024				<0.005		<0.005		

Time Series

Constituent: pH, Field (pH units) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/26/2015								4.53
2/16/2015								4.68
6/16/2015								4.74
7/6/2015								5.25
10/19/2015	4.45							5.47
1/26/2016	4.12							5.2
4/19/2016	4.33							5.32
7/18/2016	4.38							5.2
10/11/2016	4.14							5.01
1/23/2017	4.32							5.01
4/17/2017	4.26							5.19
7/12/2017								5.11
7/25/2017	4.21							
9/25/2017	4.32							5.27
10/9/2017	4.25							5.21
2/7/2018	4.42							5.29
6/20/2018	4.32							5.58
10/1/2018	4.09							5.08
2/12/2019	4.5							5.47
5/20/2019	4.5							5.26
2/24/2020	4.09							4.92
5/21/2020		3.58	3.82	3.66				
6/4/2020		3.98	3.86	3.99				
6/18/2020		3.89	3.69	3.63				
6/22/2020	4.48							5.12
7/1/2020		4.06		3.96				
7/2/2020			3.79					
7/16/2020		4.48	4.06	3.93				
7/30/2020		4.22	3.72	3.63				
8/13/2020		3.92	3.59	3.4				
8/27/2020		3.98	3.81	3.81				
9/21/2020		4.11	3.79	3.77				
1/26/2021	4.31							5.03
2/10/2021		3.8	3.77	3.5				
4/7/2021		4.1	4.02	3.73	3.78	3.68		
5/13/2021					3.88	3.7		
6/21/2021	4.25							5.21
7/7/2021		4.19	3.8	3.56				
7/8/2021					3.65	3.54		
8/31/2021						3.67		
9/1/2021					3.65			
9/27/2021					3.65	3.62		
10/26/2021					3.66	3.54		
11/17/2021					3.54	3.66		
1/24/2022	4.26							5.19
1/31/2022		4.21	3.96	3.84	3.9	3.93		
6/20/2022	4.45							4.84
6/21/2022		4.28	4.01	3.87	3.89	3.82		
10/25/2022	4.31		3.8	3.56	3.69	3.56		5.01
10/26/2022		4.01					3.69	
12/7/2022							3.85	
1/24/2023	4.23							4.84

Time Series

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Constituent: pH, Field (pH units) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
2/6/2023			4.01	3.77	4.01			
2/7/2023		4.38				3.8	3.82	
3/20/2023							3.72	
6/5/2023								5.08
6/6/2023	4.34	4.66						
6/7/2023			4	3.67	4.13	3.74	3.92	
7/19/2023							3.83	
10/10/2023							3.63	
12/5/2023							3.9	
1/4/2024			3.83			3.7	3.77	
1/8/2024	4.44							5.13
1/10/2024		4.39		4.01	3.81			
6/4/2024	4.54							5.2
6/12/2024		3.98	4.06		3.88		3.88	
6/13/2024				4.25		6.56		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.01							<0.01
1/26/2016	<0.01							<0.01
4/19/2016	<0.01							<0.01
7/18/2016	<0.01							<0.01
10/11/2016	<0.01							<0.01
1/23/2017	<0.01							<0.01
4/17/2017	<0.01							<0.01
7/25/2017	<0.01							<0.01
9/25/2017	<0.01							<0.01
2/7/2018	<0.01							<0.01
6/20/2018	<0.01							<0.01
10/1/2018	<0.01							<0.01
2/12/2019	<0.01							<0.01
2/24/2020	<0.01							<0.01
5/21/2020		<0.01	0.0113	<0.01				
6/4/2020		0.0166	0.0078	0.0067				
6/18/2020		0.0143	<0.01	<0.01				
6/22/2020	<0.01							<0.01
7/1/2020		0.0177		<0.01				
7/2/2020			<0.01					
7/16/2020		<0.01	<0.01	<0.01				
7/30/2020		<0.01	<0.01	<0.01				
8/13/2020		<0.01	<0.01	<0.01				
8/27/2020		<0.01	<0.01	<0.01				
1/26/2021	<0.01							<0.01
2/10/2021		0.0163	<0.01	<0.01				
4/7/2021		<0.01	<0.01	<0.01	<0.01	<0.01		
5/13/2021					<0.01	<0.01		
6/21/2021	<0.01							<0.01
7/7/2021		<0.01	<0.01	<0.01				
7/8/2021					<0.01	<0.01		
8/31/2021						<0.01		
9/1/2021						<0.01		
9/27/2021						<0.01	<0.01	
10/26/2021						<0.01	<0.01	
11/17/2021						<0.01	<0.01	
1/24/2022	<0.01							<0.01
1/31/2022		0.018	0.014	0.014	<0.01	<0.01		
6/20/2022	<0.01							<0.01
6/21/2022		<0.01	<0.01	<0.01	<0.01	<0.01		
10/25/2022	<0.01		0.027	0.019	0.00856	<0.01		<0.01
10/26/2022		0.026					0.046	
12/7/2022							0.0558	
1/24/2023	<0.01							<0.01
2/6/2023			<0.01	<0.01	<0.01			
2/7/2023		<0.01				<0.01	0.002	
3/20/2023							<0.01	
6/5/2023								<0.01
6/6/2023	<0.01	<0.01						
6/7/2023			<0.01	<0.01	<0.01	<0.01	<0.01	
7/19/2023							<0.01	
10/10/2023							<0.01	

Time Series

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Constituent: Selenium (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
12/5/2023							<0.01	
1/4/2024			<0.01			<0.01	<0.01	
1/8/2024	<0.01							<0.01
1/10/2024		<0.01		<0.01	<0.01			
6/4/2024	<0.01							<0.01
6/12/2024		<0.01	<0.01		<0.01		<0.01	
6/13/2024				<0.01		<0.01		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

Time Series

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Constituent: Sulfate (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
6/6/2023	97.1	282						
6/7/2023			904	964	538	129	813	
7/19/2023							810	
10/10/2023							789	
12/5/2023							782	
1/4/2024			1130			161	684	
1/8/2024	83.6							7.62
1/10/2024		384		889	502			
6/4/2024	89.6							7.75
6/12/2024		339	787		497		712	
6/13/2024				859		384		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
10/19/2015	<0.001							<0.001
1/26/2016	<0.001							<0.001
4/19/2016	<0.001							<0.001
7/18/2016	<0.001							<0.001
10/11/2016	<0.001							<0.001
1/23/2017	<0.001							<0.001
4/17/2017	<0.001							<0.001
9/25/2017	<0.001							<0.001
2/7/2018	<0.001							<0.001
6/20/2018	<0.001							<0.001
2/12/2019	<0.001							<0.001
2/24/2020	<0.001							<0.001
5/21/2020		<0.001	<0.001	<0.001				
6/4/2020		<0.001	<0.001	<0.001				
6/18/2020		<0.001	<0.001	<0.001				
6/22/2020	<0.001							<0.001
7/1/2020		<0.001		<0.001				
7/2/2020			<0.001					
7/16/2020		<0.001	<0.001	<0.001				
7/30/2020		<0.001	<0.001	<0.001				
8/13/2020		<0.001	<0.001	<0.001				
8/27/2020		<0.001	<0.001	<0.001				
1/26/2021	<0.001							<0.001
2/10/2021		<0.001	<0.001	<0.001				
4/7/2021		<0.001	<0.001	<0.001	<0.001	<0.001		
5/13/2021					<0.001	<0.001		
6/21/2021	<0.001							<0.001
7/7/2021		<0.001	<0.001	<0.001				
7/8/2021					<0.001	<0.001		
8/31/2021						<0.001		
9/1/2021					<0.001			
9/27/2021					<0.001	<0.001		
10/26/2021					<0.001	<0.001		
11/17/2021					<0.001	<0.001		
1/24/2022	<0.001							<0.001
1/31/2022		<0.001	<0.001	<0.001	<0.001	<0.001		
6/20/2022	<0.001							<0.001
6/21/2022		<0.001	<0.001	<0.001	<0.001	<0.001		
10/25/2022	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001
10/26/2022		<0.001					<0.001	
12/7/2022							<0.001	
1/24/2023	<0.001							<0.001
2/6/2023			<0.001	<0.001	<0.001			
2/7/2023		<0.001				<0.001	<0.001	
3/20/2023							<0.001	
6/5/2023								<0.001
6/6/2023	<0.001	<0.001						
6/7/2023			<0.001	<0.001	<0.001	<0.001	<0.001	
7/19/2023							<0.001	
10/10/2023							<0.001	
12/5/2023							<0.001	
1/4/2024			<0.001			<0.001	<0.001	

Time Series

Page 2

Constituent: Thallium (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/8/2024	<0.001							<0.001
1/10/2024		<0.001		<0.001	<0.001			
6/4/2024	<0.001							<0.001
6/12/2024		<0.001	<0.001		<0.001		<0.001	
6/13/2024				<0.001		<0.001		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
1/26/2015								142.5
2/16/2015								106.2
6/16/2015								158
7/6/2015								151
10/19/2015	150							206
1/26/2016	120							165
4/19/2016	120							130
7/18/2016	132							124
10/11/2016	151.7							200
1/23/2017	148							138
4/17/2017	62							56
7/12/2017								108
7/25/2017	92							
9/25/2017	<40							<40
10/9/2017	115							80
2/7/2018	92							112
6/20/2018	138.8							200
10/1/2018	107.5							130
2/12/2019	135							136.2
5/20/2019	181.2							162.5
2/24/2020	107.5							120
5/21/2020		1505	1609	3449				
6/4/2020		1839	1589	3895				
6/18/2020		1964	1624	4502				
6/22/2020	147.5							112.5
7/1/2020		2650		4120				
7/2/2020			1634					
7/16/2020		1811	1512	3700				
7/30/2020		1541	1515	3138				
8/13/2020		1768	1599	3102				
8/27/2020		1772	1526	3519				
9/21/2020		1945	1515	3288				
1/26/2021	138.8							110
2/10/2021		2081	1538	4090				
4/7/2021		2301	1536	4958	2173	3952		
5/13/2021					2078	2804		
6/21/2021	178.8							155
7/7/2021		1770	1618	3291				
7/8/2021					2168	2851		
8/31/2021						2740		
9/1/2021					2038			
9/27/2021					1749	2382		
10/26/2021					1614	2306		
11/17/2021					1676	1899		
1/24/2022	130							128.8
1/31/2022		1912	1582	3410	1864	2379		
6/20/2022	143.8							137.5
6/21/2022		1771	1408	2952	1676	3210		
10/25/2022	110		1454	2835	1585	2902		96.25
10/26/2022		1894					2545	
12/7/2022							2554	
1/24/2023	142.5							111.2

Time Series

Page 2

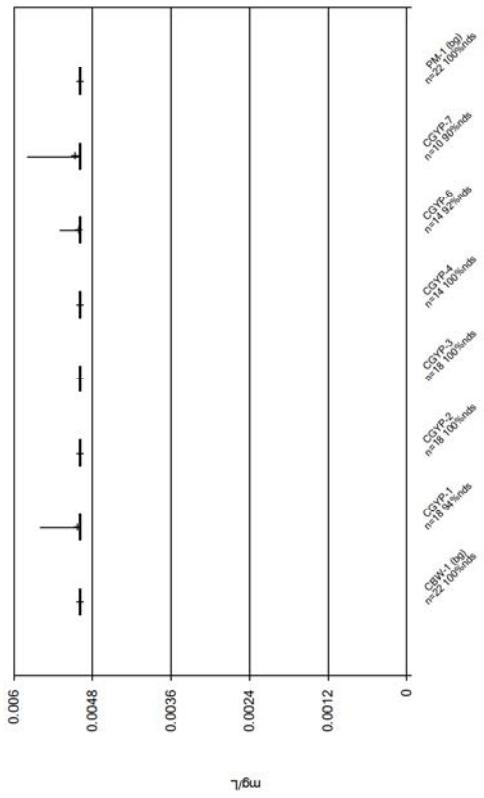
Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper Data: CGYP

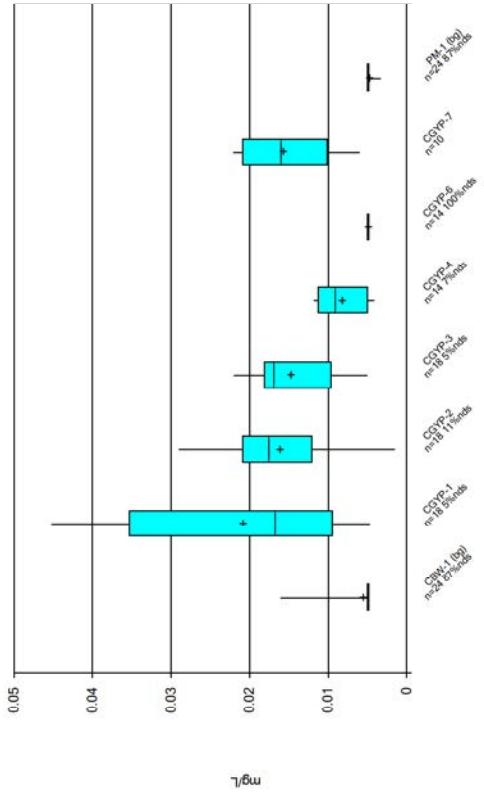
	CBW-1 (bg)	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7	PM-1 (bg)
2/6/2023			1474	3838	1689			
2/7/2023		1764				2959	2546	
3/20/2023							2665	
6/5/2023								130
6/6/2023	178.8	1584						
6/7/2023			1451	2906	1445	2774	2355	
7/19/2023							2252	
10/10/2023							2101	
12/5/2023							1935	
1/4/2024			1328			2484	2120	
1/8/2024	188.8							193.8
1/10/2024		1570		3978	1339			
6/4/2024	170							143.8
6/12/2024		1631	1240		1175		1734	
6/13/2024				2489		1415		

FIGURE B.

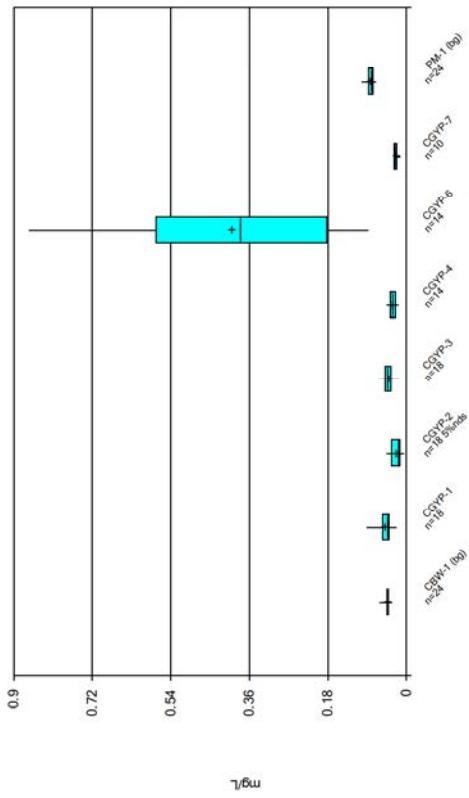
Box & Whiskers Plot



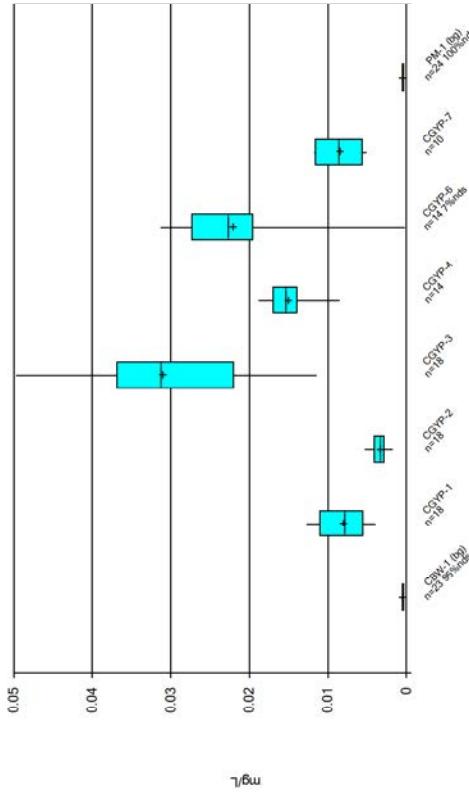
Box & Whiskers Plot



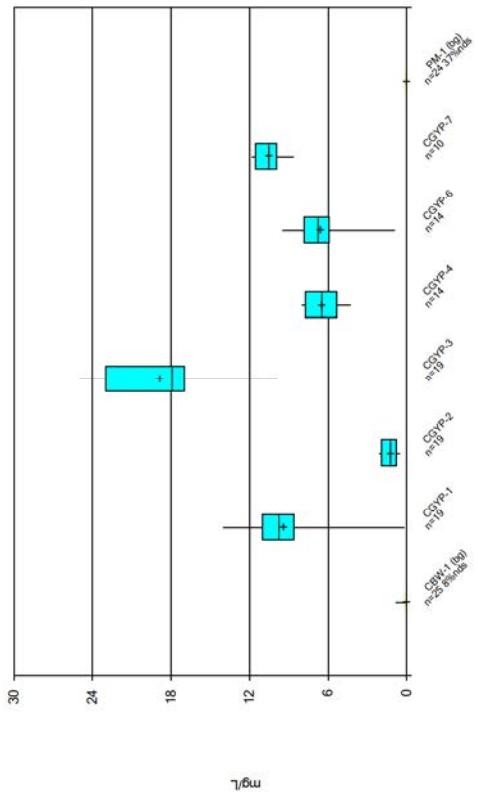
Box & Whiskers Plot



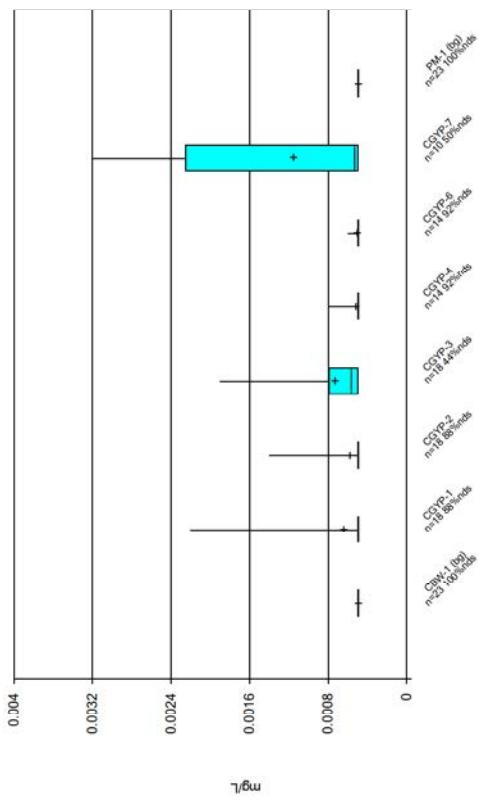
Box & Whiskers Plot



Box & Whiskers Plot

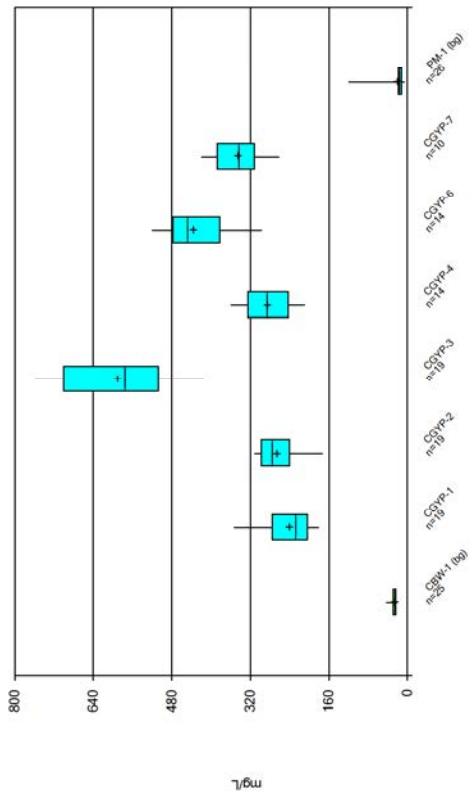


Box & Whiskers Plot

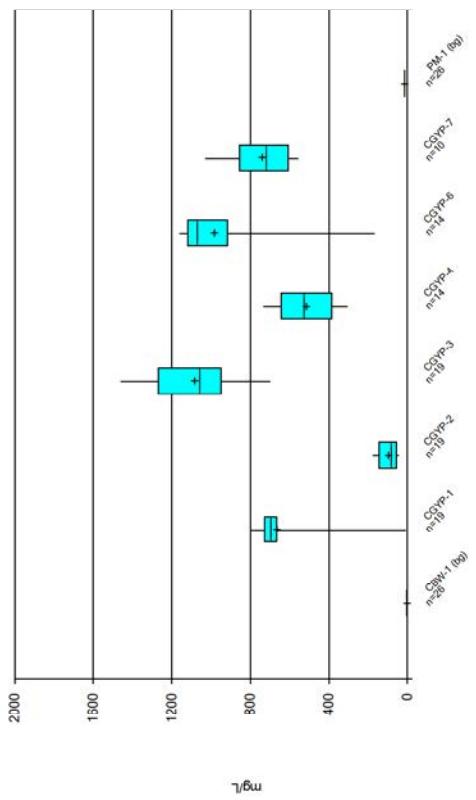


Constituent: Calcium Analysis Run 10/30/2024 12:00 PM
CGYP Client: Santee Cooper Data: CGYP

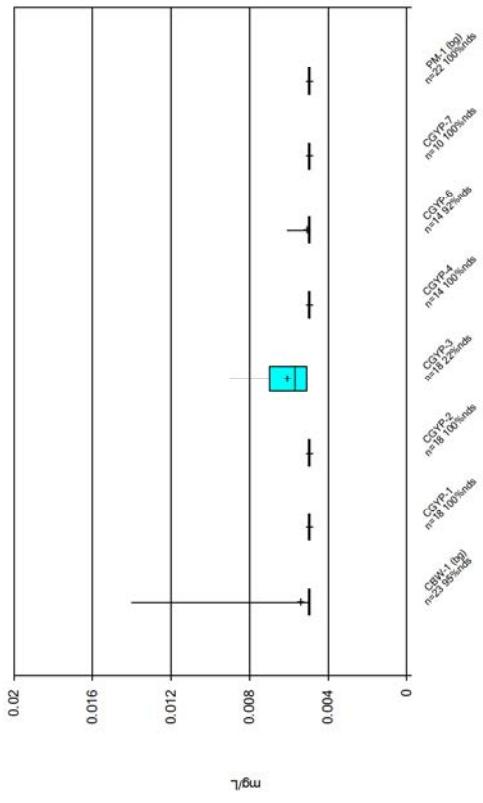
Box & Whiskers Plot



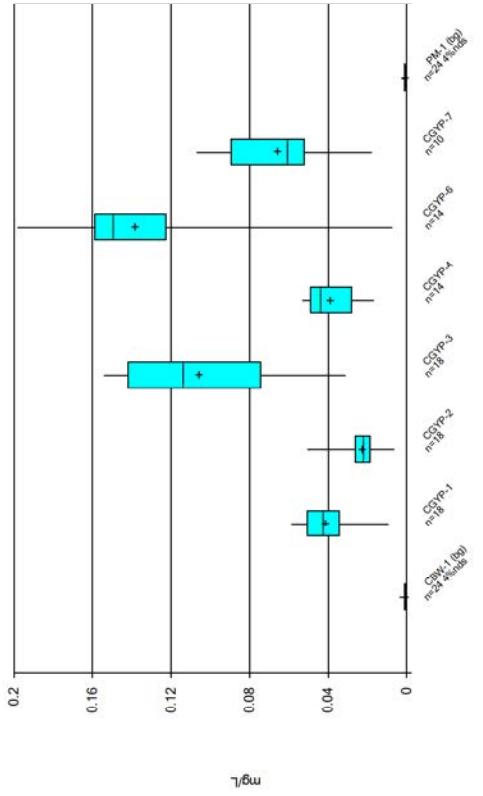
Box & Whiskers Plot



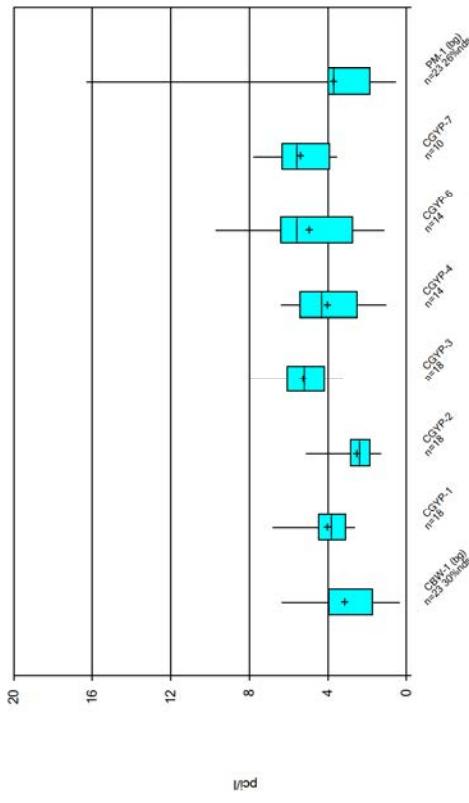
Box & Whiskers Plot



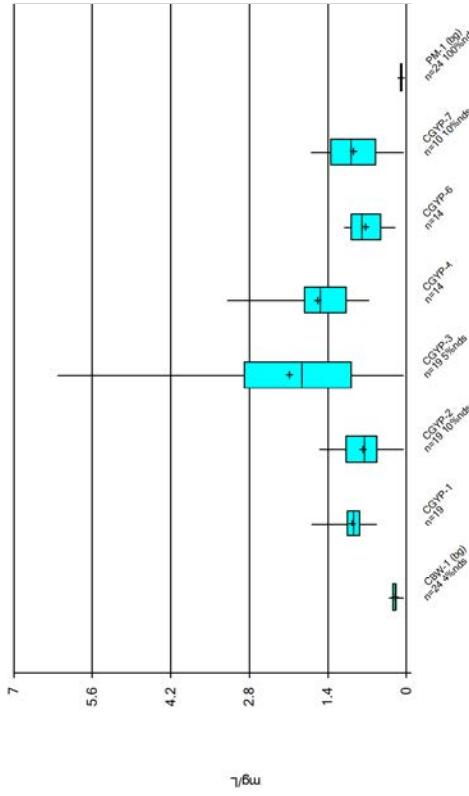
Box & Whiskers Plot



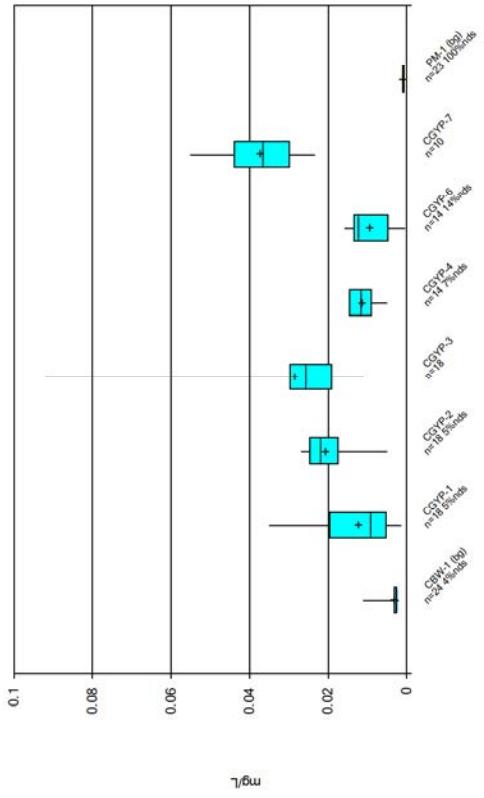
Box & Whiskers Plot



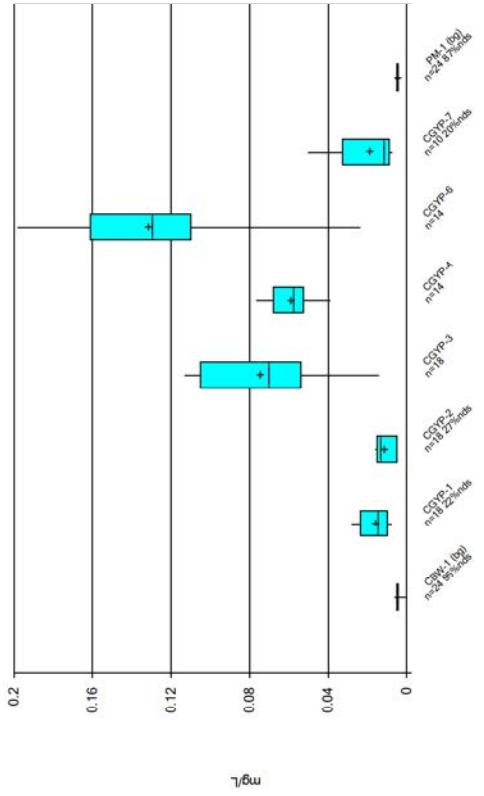
Box & Whiskers Plot



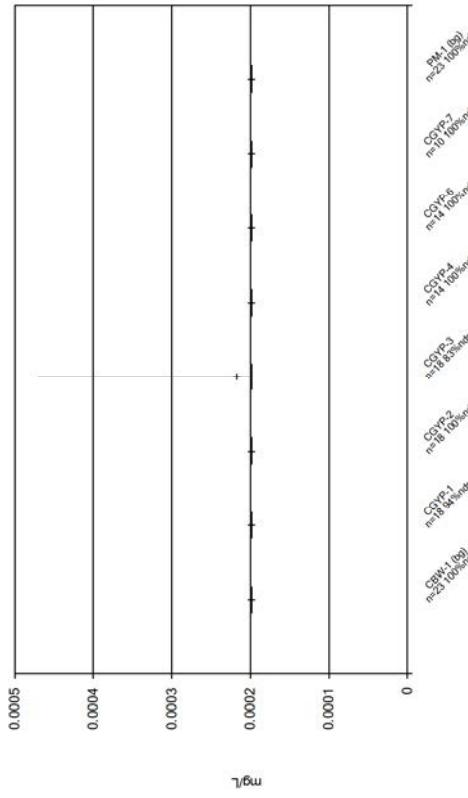
Box & Whiskers Plot



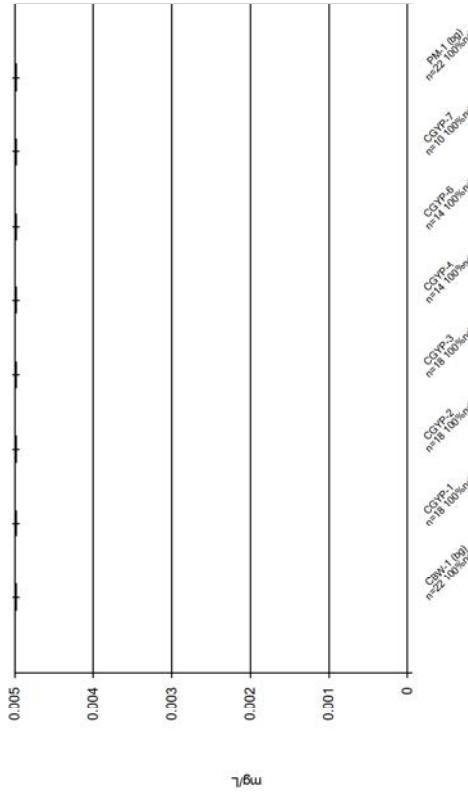
Box & Whiskers Plot



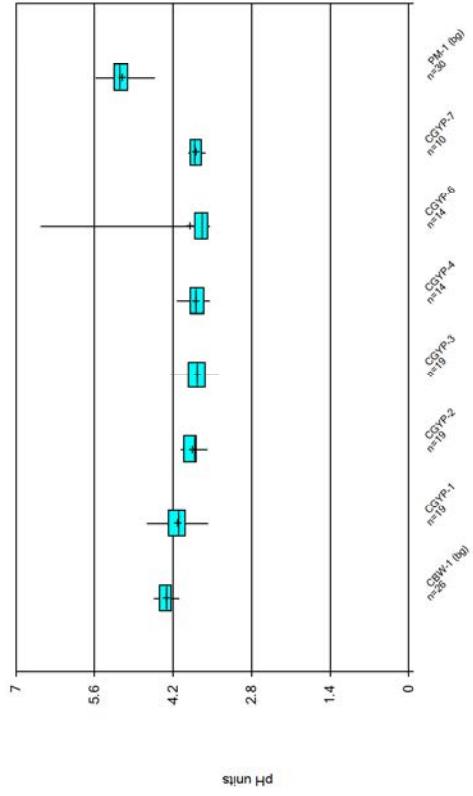
Box & Whiskers Plot



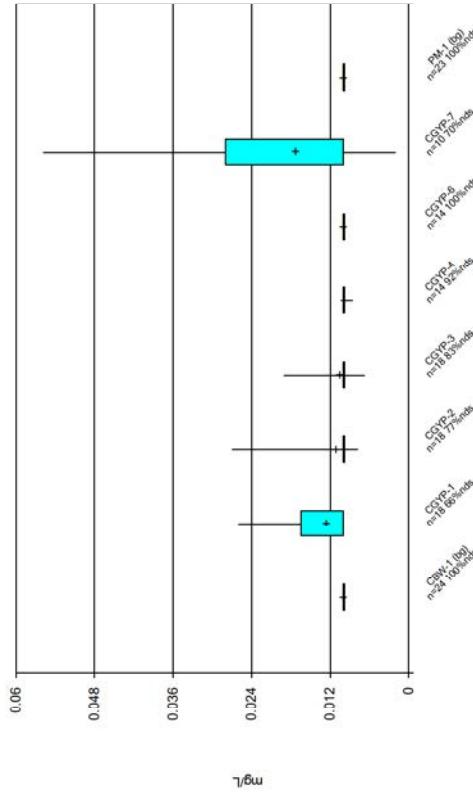
Box & Whiskers Plot



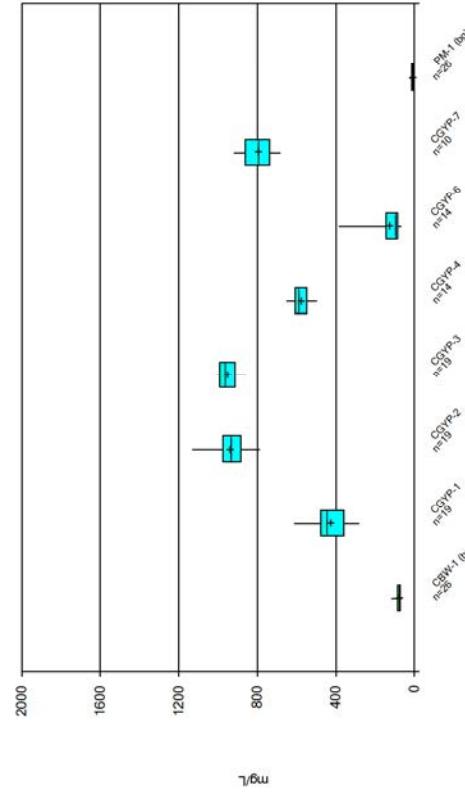
Box & Whiskers Plot



Box & Whiskers Plot



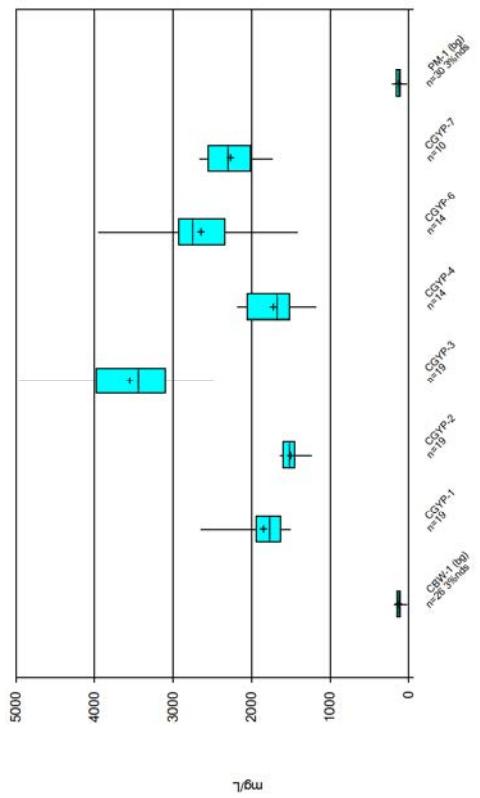
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/30/2024 12:00 PM
CGYP Client: Santee Cooper Data: CGYP

Constituent: Selenium Analysis Run 10/30/2024 12:00 PM
CGYP Client: Santee Cooper Data: CGYP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:00 PM

CGYP Client: Santee Cooper

Data: CGYP

FIGURE C.

Outlier Summary

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:07 PM

No values were flagged as outliers.

Tukey's Outlier Test - Appendix III Upgradient Wells - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:31 PM

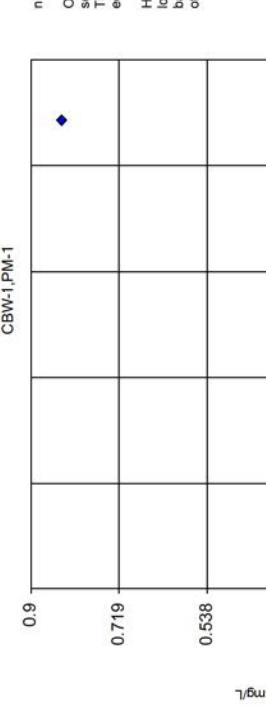
Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Boron (mg/L)	CBW-1,PM-1	Yes	0.836,0.049,0.0437	n/a w/combined bg	NP	NaN	49	0.03588	0.1169	normal	ShapiroFrancia
Calcium (mg/L)	CBW-1,PM-1	Yes	119	n/a w/combined bg	NP	NaN	51	23.76	15.56	normal	ShapiroFrancia

Tukey's Outlier Test - Appendix III Upgradient Wells - All Results

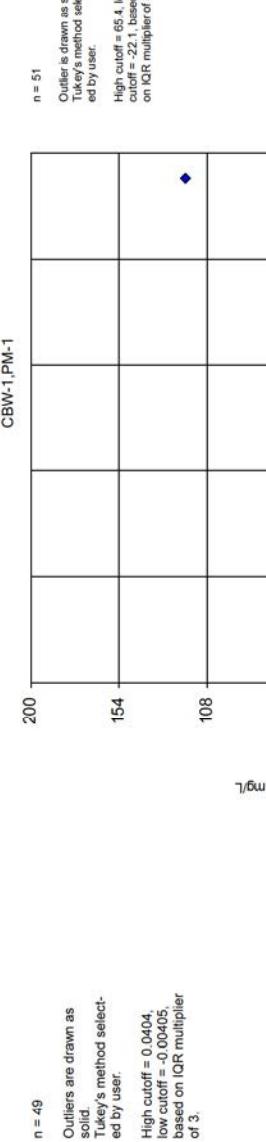
CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Boron (mg/L)	CBW-1,PM-1	Yes	0.836,0.049,0.0437	n/a w/combined bg	NP	NaN	49	0.03588	0.1169	normal	ShapiroFrancia
Calcium (mg/L)	CBW-1,PM-1	Yes	119	n/a w/combined bg	NP	NaN	51	23.76	15.56	normal	ShapiroFrancia
Chloride (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	52	7.804	4.833	normal	ShapiroFrancia
Fluoride (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	48	0.1531	0.06468	normal	ShapiroFrancia
pH, Field (pH units)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	56	4.746	0.4427	normal	ShapiroFrancia
Sulfate (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	52	46.3	35.86	normal	ShapiroFrancia
Total Dissolved Solids (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	56	131.5	39.05	normal	ShapiroFrancia

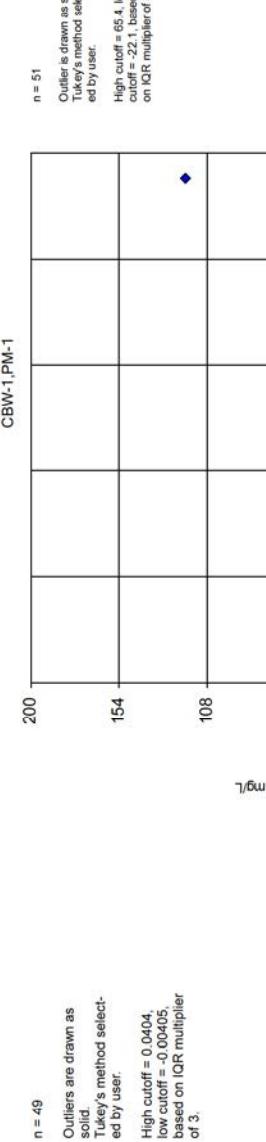
Tukey's Outlier Screening, Pooled Background



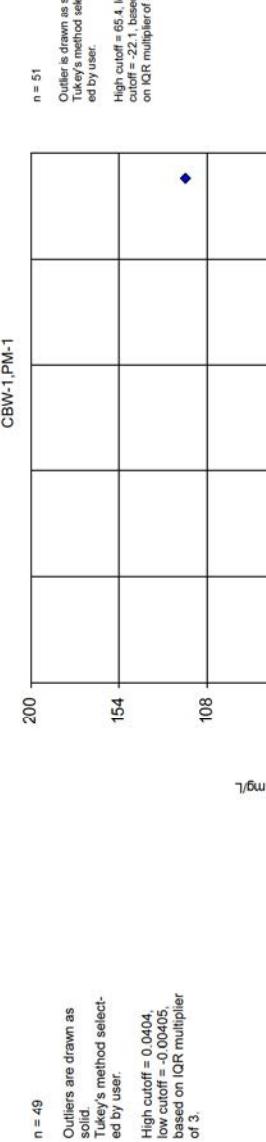
Tukey's Outlier Screening, Pooled Background



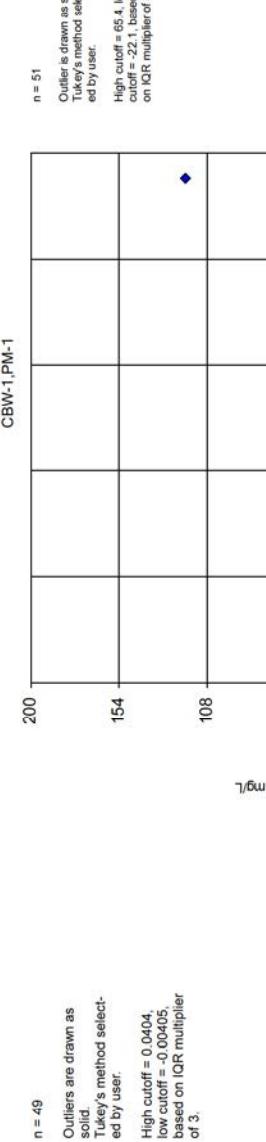
Tukey's Outlier Screening, Pooled Background



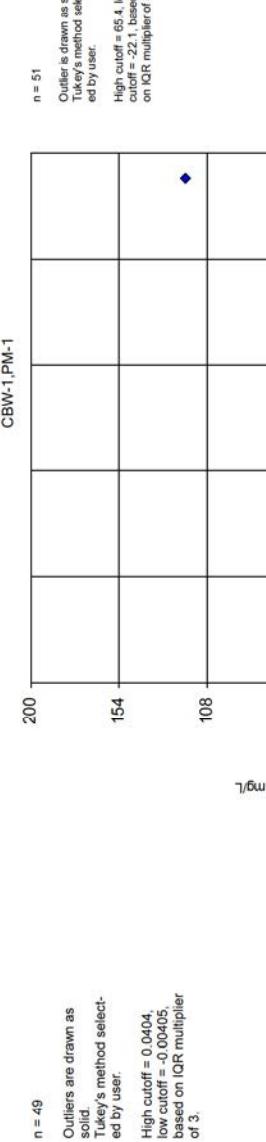
Tukey's Outlier Screening, Pooled Background



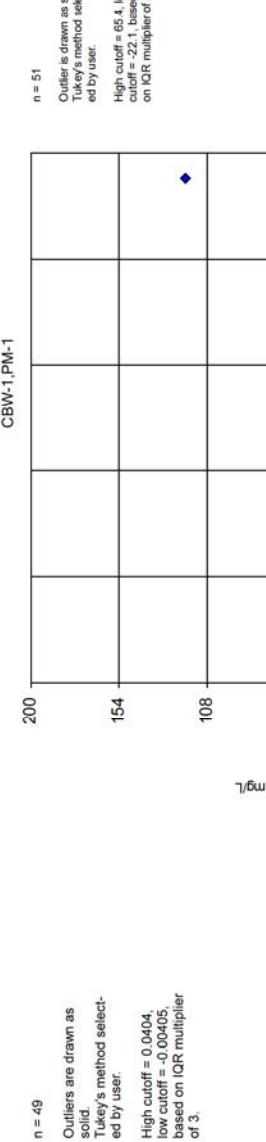
Tukey's Outlier Screening, Pooled Background



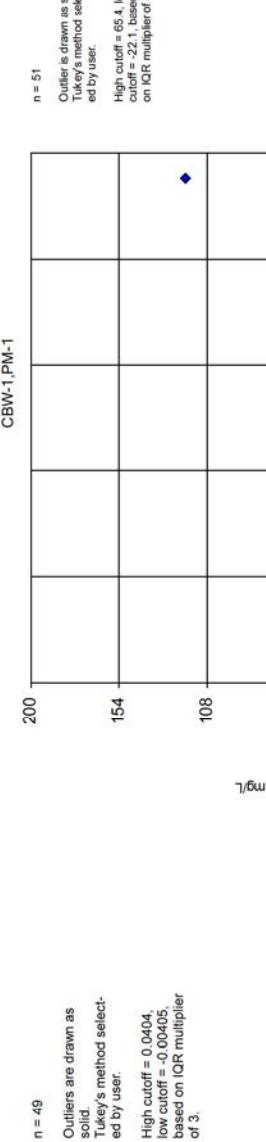
Tukey's Outlier Screening, Pooled Background



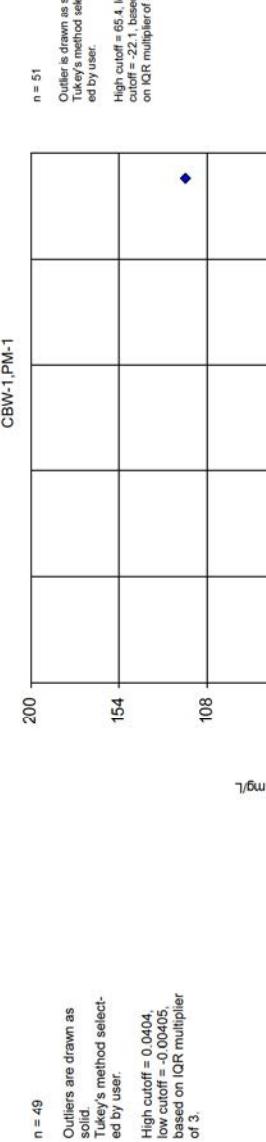
Tukey's Outlier Screening, Pooled Background



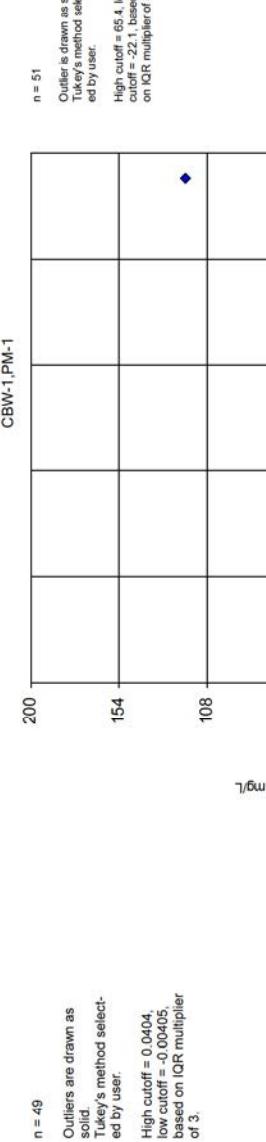
Tukey's Outlier Screening, Pooled Background



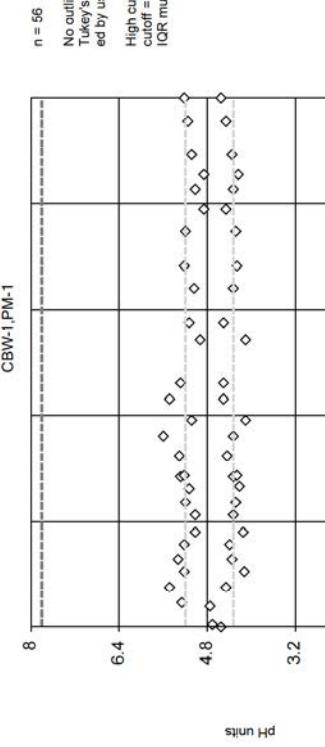
Tukey's Outlier Screening, Pooled Background



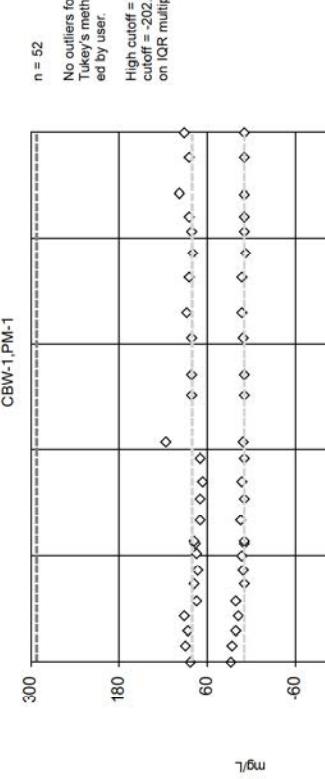
Tukey's Outlier Screening, Pooled Background



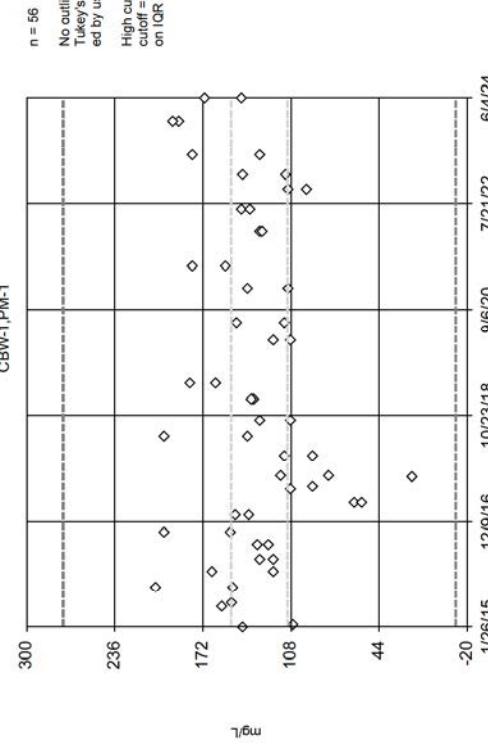
Tukey's Outlier Screening, Pooled Background



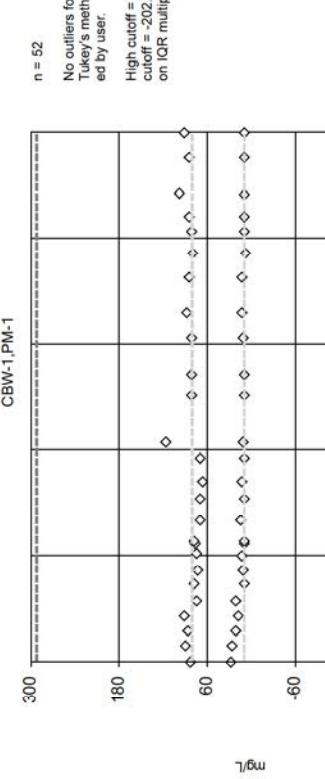
Tukey's Outlier Screening, Pooled Background



Tukey's Outlier Screening, Pooled Background



Tukey's Outlier Screening, Pooled Background



Tukey's Outlier Test - Appendix IV Upgradient Wells - Significant Results

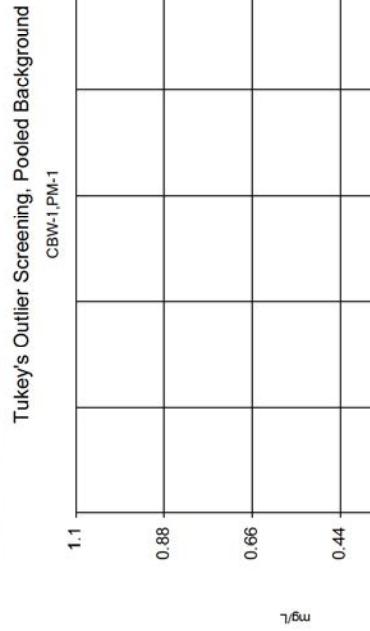
CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 1:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Cobalt (mg/L)	CBW-1,PM-1	Yes	0.0034,0.00189,0.0016	n/a w/combined bg	NP	NaN	46	0.0009968	0.0004387	normal	ShapiroWilk
Combined Radium 226 & 228 (pcil/l)	CBW-1,PM-1	Yes	16.3	n/a w/combined bg	NP	NaN	44	3.508	2.521	normal	ShapiroWilk
Lead (mg/L)	CBW-1,PM-1	Yes	0.011	n/a w/combined bg	NP	NaN	45	0.002106	0.001672	normal	ShapiroWilk

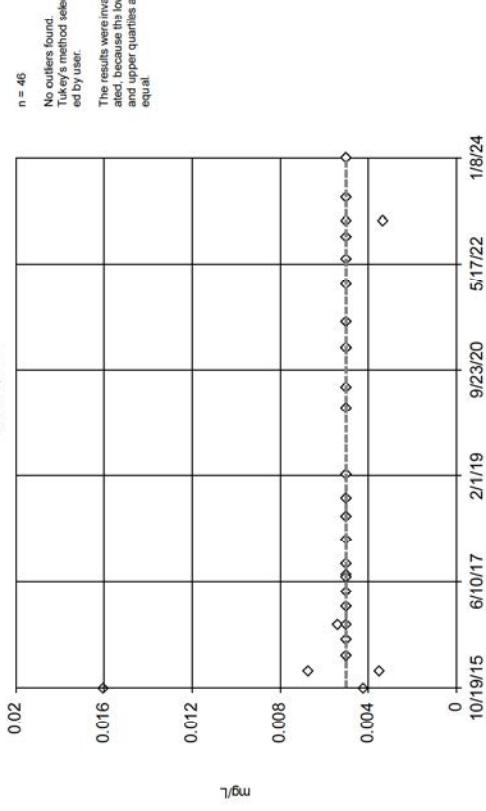
Tukey's Outlier Test - Appendix IV Upgradient Wells - All Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 1:13 PM

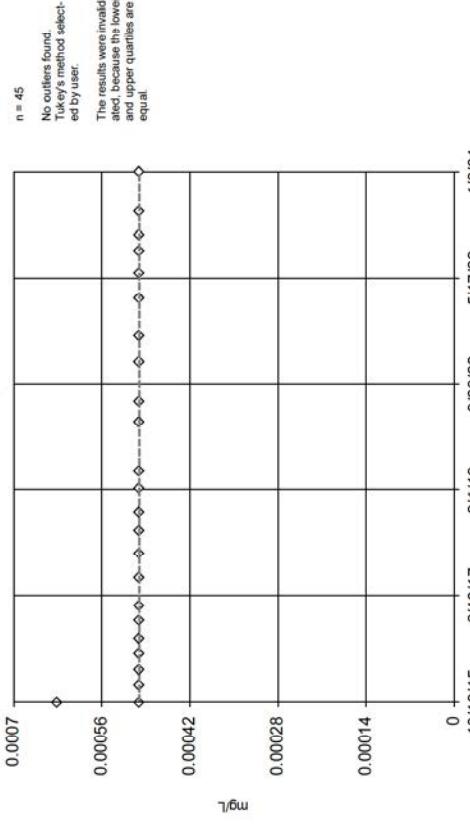
<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	42	0.005	0	normal	ShapiroWilk
Arsenic (mg/L)	CBW-1,PM-1	n/a	n/a	n/a w/combined bg	NP	NaN	46	0.005198	0.001686	unknown	ShapiroWilk
Barium (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	46	0.06243	0.0207	normal	ShapiroWilk
Beryllium (mg/L)	CBW-1,PM-1	n/a	n/a	n/a w/combined bg	NP	NaN	45	0.0005029	0.00001938	unknown	ShapiroWilk
Cadmium (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	44	0.0005	0	normal	ShapiroWilk
Chromium (mg/L)	CBW-1,PM-1	n/a	n/a	n/a w/combined bg	NP	NaN	43	0.005209	0.001372	unknown	ShapiroWilk
Cobalt (mg/L)	CBW-1,PM-1	Yes	0.0034,0.00189,0.0016	n/a w/combined bg	NP	NaN	46	0.0009968	0.0004387	normal	ShapiroWilk
Combined Radium 226 & 228 (pcil/l)CBW-1,PM-1	CBW-1,PM-1	Yes	16.3	n/a w/combined bg	NP	NaN	44	3.508	2.521	normal	ShapiroWilk
Fluoride (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	46	0.1548	0.06551	normal	ShapiroWilk
Lead (mg/L)	CBW-1,PM-1	Yes	0.011	n/a w/combined bg	NP	NaN	45	0.002106	0.001672	normal	ShapiroWilk
Lithium (mg/L)	CBW-1,PM-1	n/a	n/a	n/a w/combined bg	NP	NaN	46	0.004893	0.0006709	unknown	ShapiroWilk
Mercury (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	44	0.0002	0	normal	ShapiroWilk
Molybdenum (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	42	0.005	0	normal	ShapiroWilk
Selenium (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	45	0.01	0	normal	ShapiroWilk
Thallium (mg/L)	CBW-1,PM-1	No	n/a	n/a w/combined bg	NP	NaN	42	0.001	0	normal	ShapiroWilk



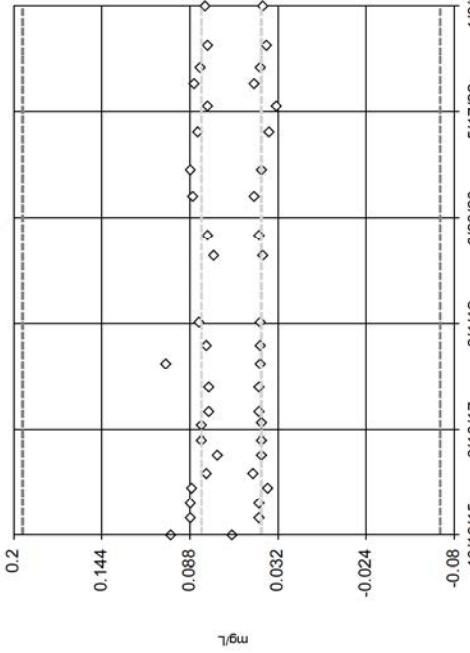
Constituent: Antimony Analysis Run 10/30/2024 1:12 PM View: Outliers - Appendix IV Upgradient Wells CGYP Client: Santee Cooper Data: CGYP



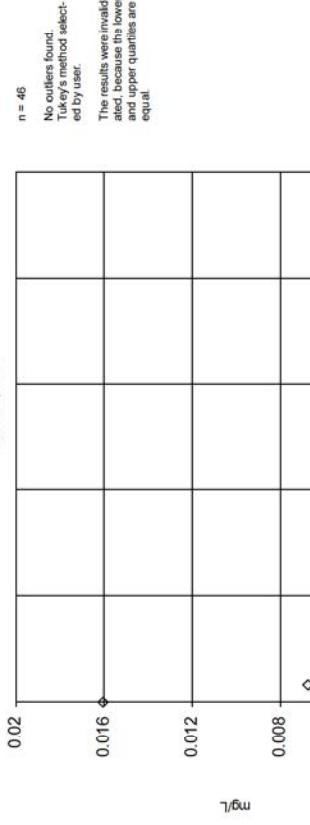
Constituent: Arsenic Analysis Run 10/30/2024 1:13 PM View: Cutlers - Appendix IV Upgradient Wells CGYP Client: Santee Cooper Data: CGYP



Constituent: Barium Analysis Run 10/30/2024 1:13 PM View: Outliers - Appendix IV Upgrade Wells CGYP Client: Samice Cooper Data: CGYP

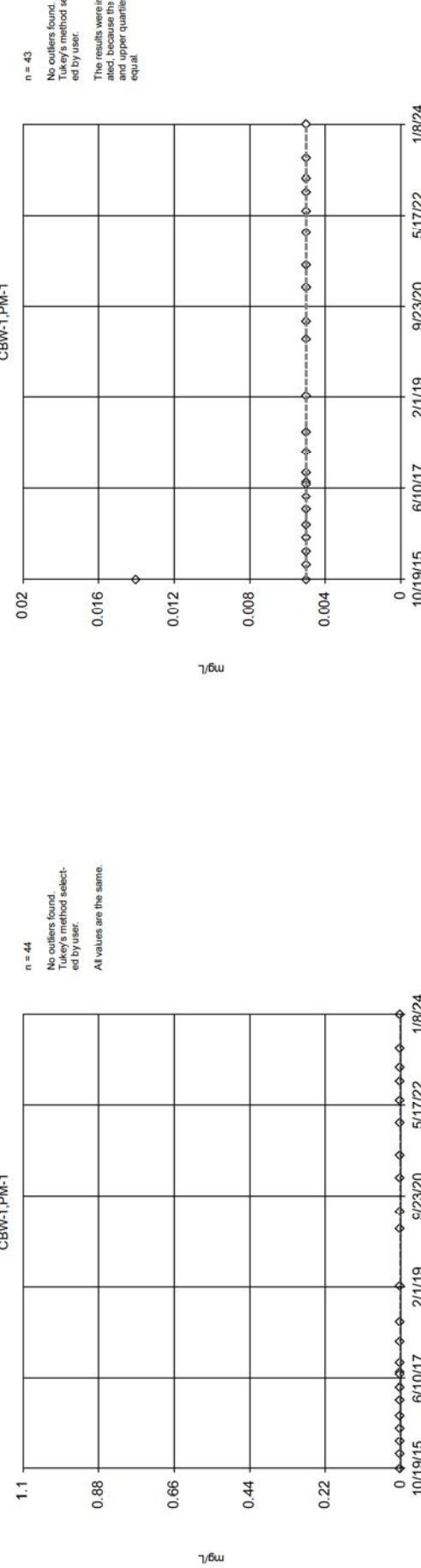


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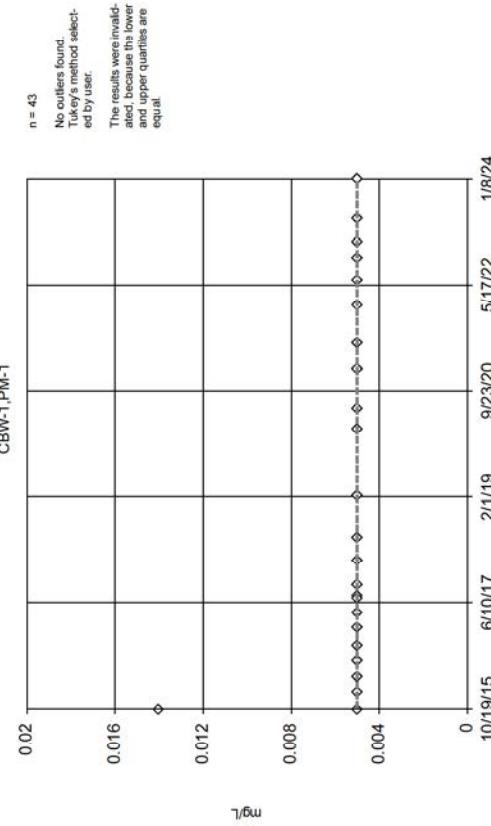


Tukey's Outlier Screening, Pooled Background

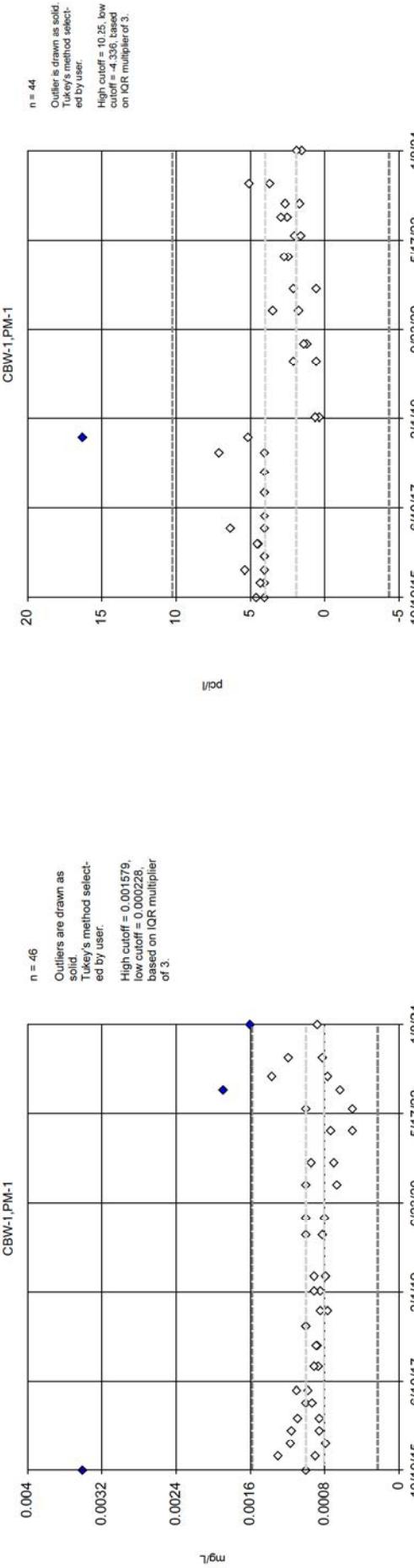
Tukey's Outlier Screening, Pooled Background



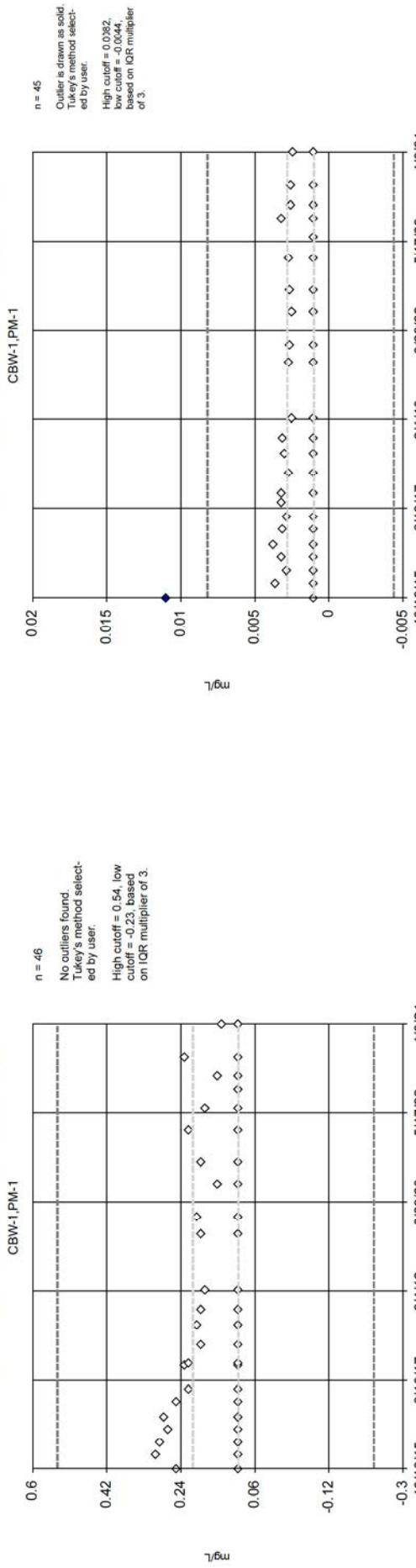
Tukey's Outlier Screening, Pooled Background



Tukey's Outlier Screening, Pooled Background



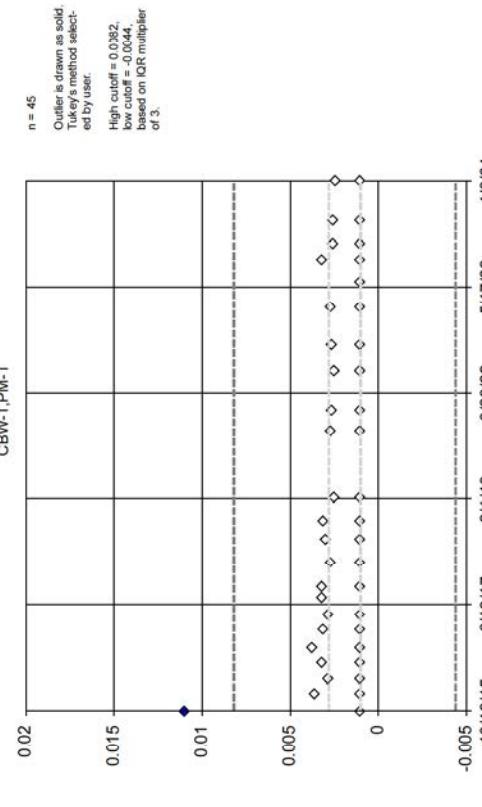
Tukey's Outlier Screening, Pooled Background



Constituent: Fluoride Analysis Run 10/30/2024 1:13 PM View: Outliers - Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lead Analysis Run 10/30/2024 1:13 PM View: Outliers - Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Tukey's Outlier Screening, Pooled Background



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CBW-1,PM-1

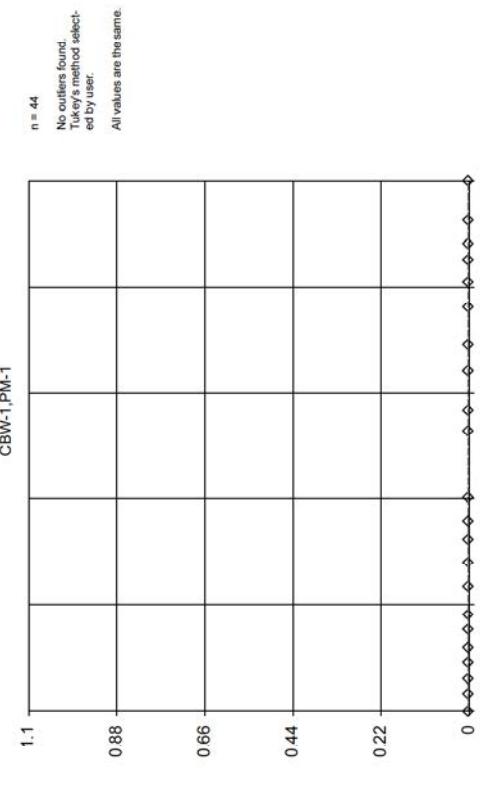
n = 44

No outliers found.
Tukey's method selected by user.

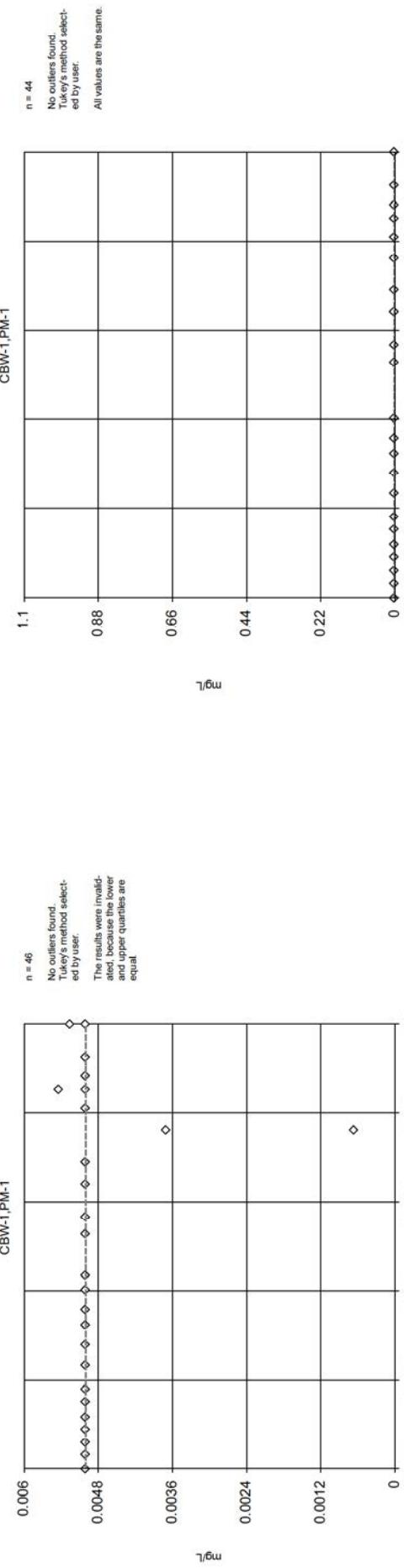
All values are the same.

Le

Tukey's Outlier Screening, Pooled Background



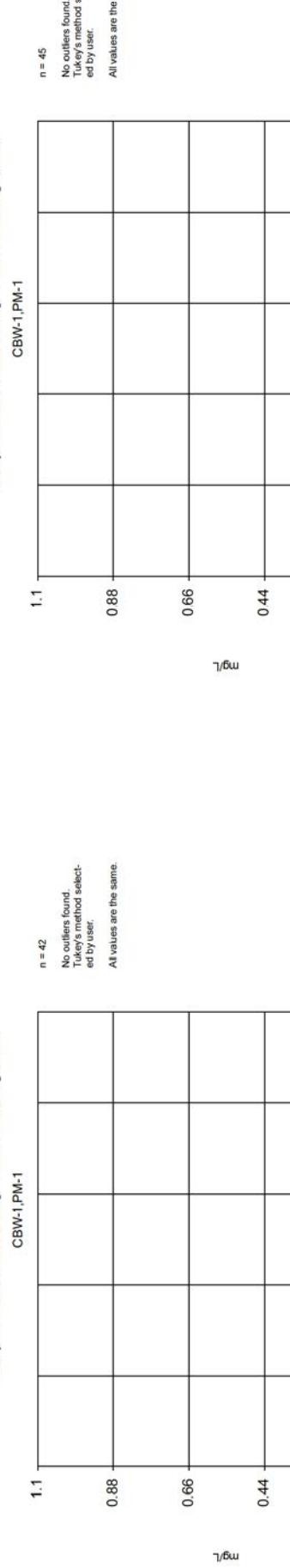
Tukey's Outlier Screening, Pooled Background



Constituent: Lithium Analysis Run 10/30/2024 1:13 PM View: Outliers - Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Constituent: Mercury Analysis Run 10/30/2024 1:13 PM View: Outliers - Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Tukey's Outlier Screening, Pooled Background



Constituent: Molybdenum Analysis Run 10/30/2024 1:13 PM CGYP Client: Santee Cooper Data: CGYP

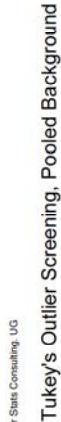
View: Outliers - Appendix IV Upgradient Well

Tukey's Outlier Screening, Pooled Background

CBW-1,PM-1

Constituent: Selenium Analysis Run 10/30/2024 1:13 PM CGYP Client: Santee Cooper Data: CGYP

View: Outliers - Appendix IV Upgradient Wells



Tukey's Outlier Screening, Pooled Background



Constituent: Selenium Analysis Run 10/30/2024 1:13 PM CGYP Client: Santee Cooper Data: CGYP

View: Outliers - Appendix IV Upgradient Wells

FIGURE D.

Upgradient Wells Trend Tests - Appendix III - Significant Results

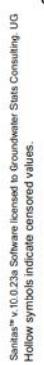
CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDS	Normality	Alpha	Method
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP

Upgradient Wells Trend Tests - Appendix III - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:28 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CBW-1 (bg)	-0.0006235	-89	-111	No	25	8	n/a	0.01	NP
Boron (mg/L)	PM-1 (bg)	-0.0002129	-63	-105	No	24	37.5	n/a	0.01	NP
Calcium (mg/L)	CBW-1 (bg)	0.3169	57	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	PM-1 (bg)	-0.01932	-34	-118	No	26	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	105	No	24	100	n/a	0.01	NP
pH, Field (pH units)	CBW-1 (bg)	0.01189	44	118	No	26	0	n/a	0.01	NP
pH, Field (pH units)	PM-1 (bg)	0	-10	-146	No	30	0	n/a	0.01	NP
Sulfate (mg/L)	CBW-1 (bg)	1.043	62	118	No	26	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CBW-1 (bg)	5.193	88	118	No	26	3.846	n/a	0.01	NP
Total Dissolved Solids (mg/L)	PM-1 (bg)	-1.109	-29	-146	No	30	3.333	n/a	0.01	NP

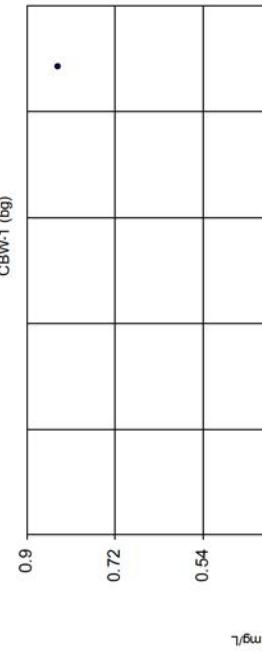


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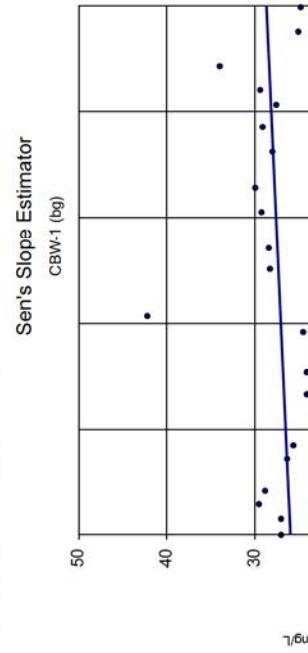
Sanitas™ v.10.0.238 Software licensed to Ground

Hollow symbols indicate censored values.

Sen's Slope Estimator



Constituent: Boron Analysis Run 10/30/2024 12:27 PM View: Outliers - Appendix III Upgrade Wells CGYP Client: Santee Cooper Data: CGYP



Constituent: Calcium

Analysis Run 10/30/2024 12:27 PM View: Outliers Appendix III Upgrade! Well#1

6/4/24

9/12/22

12/21/20

4/1/19

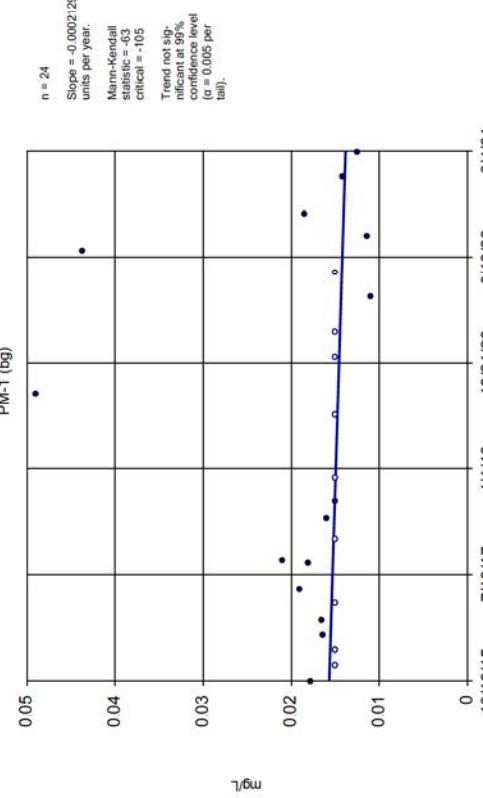
7/10/17

10/19/15

0 10 20

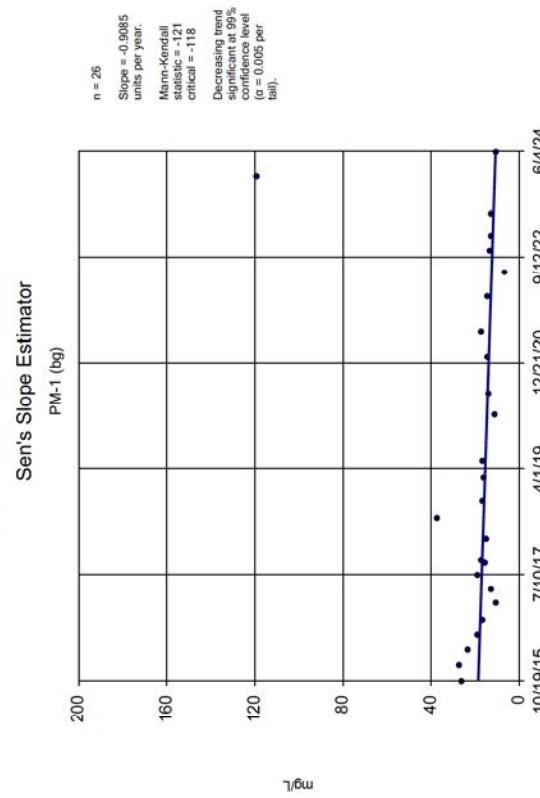
Sen's Slope Estim

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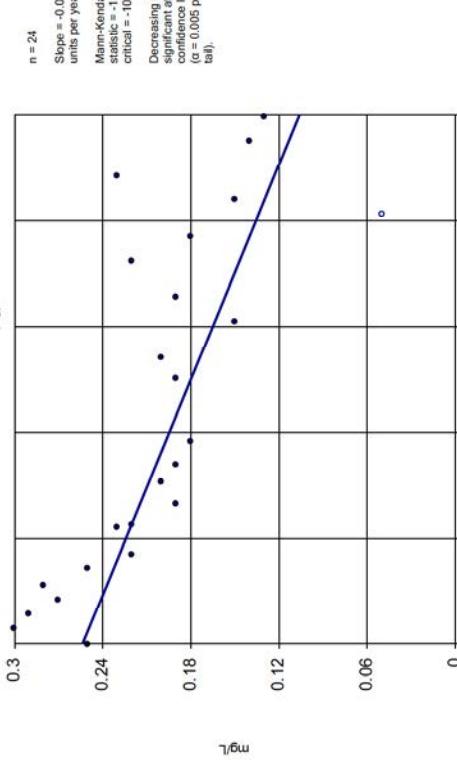
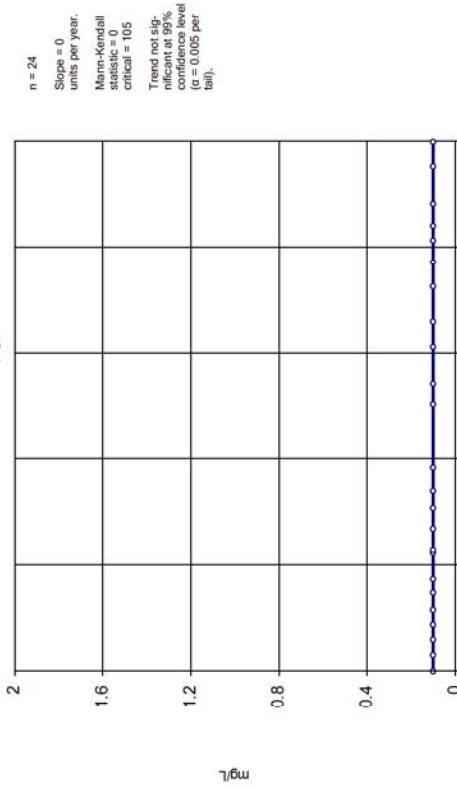
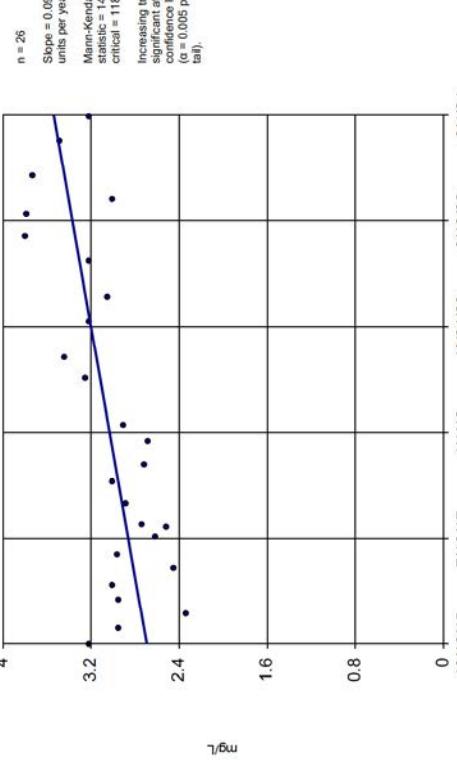
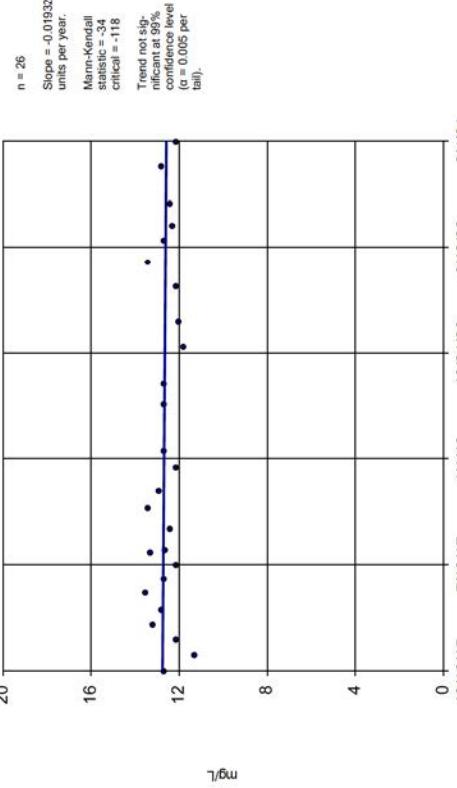
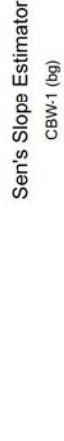


Constituent: Boron Analysis Run 10/30/2024 12:27 PM View: Outliers - Appendix III Upgradient Wells CGYP Client: Santee Cooper Data: CGYP 10/19/15 /10/17 4/1/19 12/21/20 9/12/22 b/4/24

is Run 10/30/2024 12:27 PM View: Cutters - A



Constituent: Calcium Analysis Run 10/30/2024 12:27 PM View: Outliers - Appendix III Upgradient Well



Sen's Slope Estimator

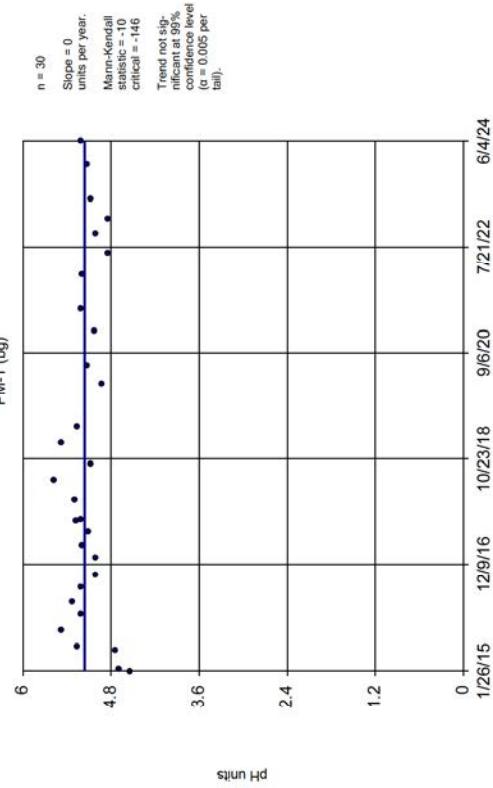
CBW-1 (bg)



Constituent: pH Field Analysis Run 10/30/2024 12:27 PM View: Outliers - Appendix III Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator

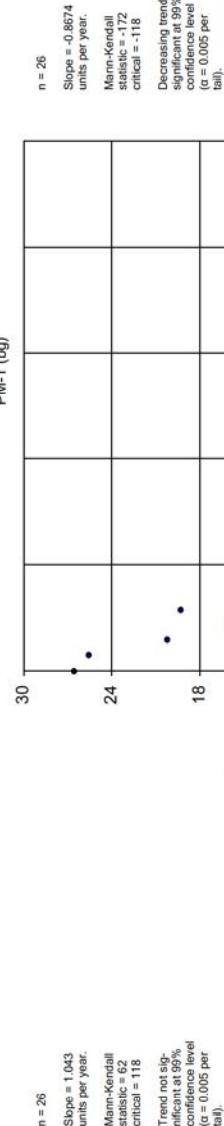
PM-1 (bg)



Constituent: pH Field Analysis Run 10/30/2024 12:27 PM View: Outliers - Appendix III Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator

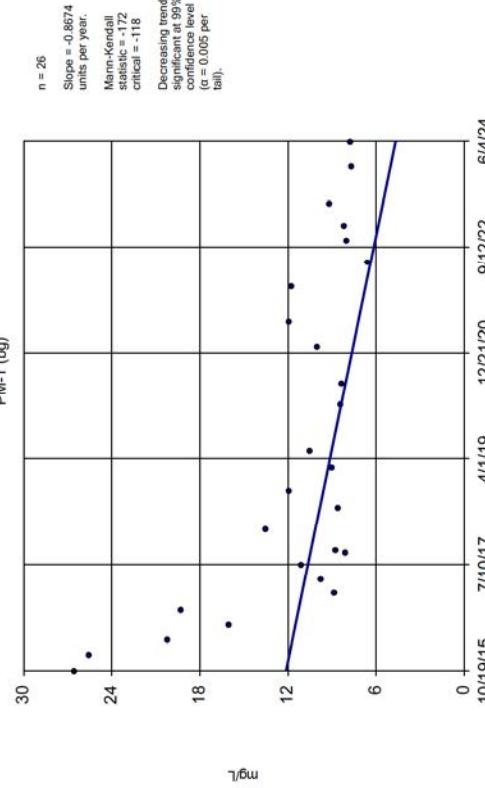
CBW-1 (bg)



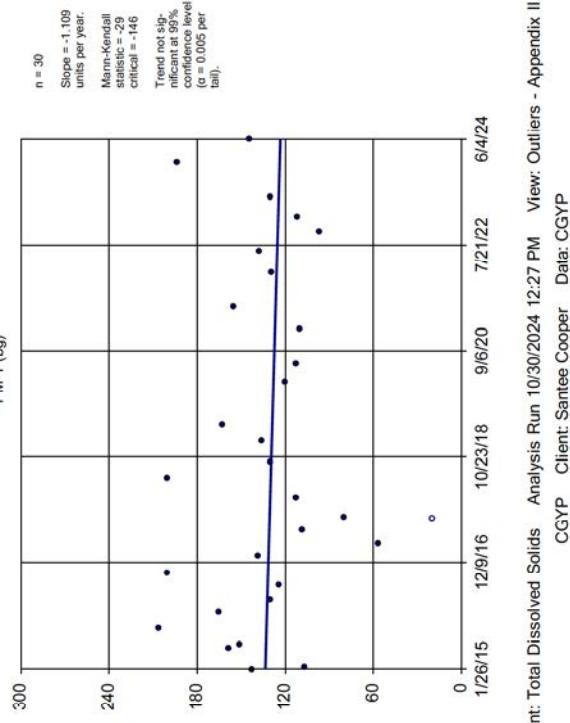
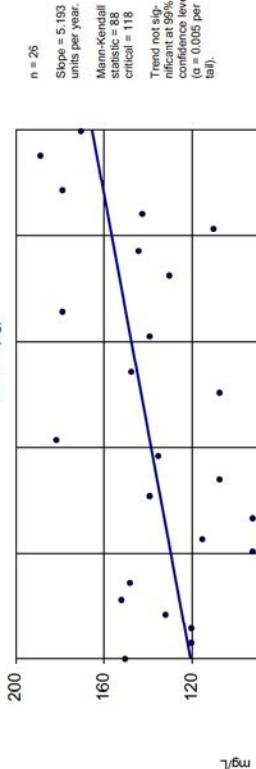
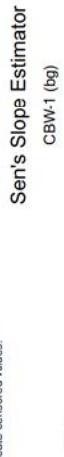
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Sen's Slope Estimator

PM-1 (bg)



Constituent: Sulfate Field Analysis Run 10/30/2024 12:27 PM View: Outliers - Appendix III Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP



Upgradient Wells Trend Tests - Appendix IV - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:36 PM

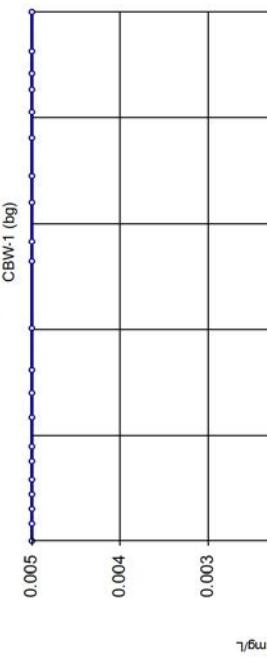
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	CBW-1 (bg)	-0.0003885	-77	-76	Yes	23	0	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007615	-167	-76	Yes	23	4.348	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004167	137	76	Yes	23	4.348	n/a	0.05	NP
Combined Radium 226 & 228 (pCi/l)	CBW-1 (bg)	-0.3425	-86	-71	Yes	22	31.82	n/a	0.05	NP
Combined Radium 226 & 228 (pCi/l)	PM-1 (bg)	-0.2531	-94	-71	Yes	22	27.27	n/a	0.05	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-76	Yes	23	4.348	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.000108	-119	-76	Yes	23	4.348	n/a	0.05	NP

Upgradient Wells Trend Tests - Appendix IV - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:36 PM

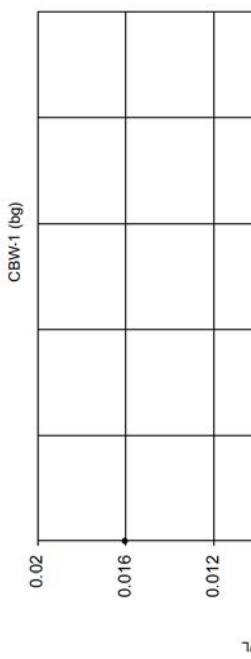
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	CBW-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Antimony (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Arsenic (mg/L)	CBW-1 (bg)	0	-59	-76	No	23	86.96	n/a	0.05	NP
Arsenic (mg/L)	PM-1 (bg)	0	21	76	No	23	86.96	n/a	0.05	NP
Barium (mg/L)	CBW-1 (bg)	-0.0003885	-77	-76	Yes	23	0	n/a	0.05	NP
Barium (mg/L)	PM-1 (bg)	-0.0003849	-38	-76	No	23	0	n/a	0.05	NP
Beryllium (mg/L)	CBW-1 (bg)	0	-21	-71	No	22	95.45	n/a	0.05	NP
Beryllium (mg/L)	PM-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Cadmium (mg/L)	CBW-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Cadmium (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Chromium (mg/L)	CBW-1 (bg)	0	-21	-71	No	22	95.45	n/a	0.05	NP
Chromium (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007615	-167	-76	Yes	23	4.348	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004167	137	76	Yes	23	4.348	n/a	0.05	NP
Combined Radium 226 & 228 (pcil/l)	CBW-1 (bg)	-0.3425	-86	-71	Yes	22	31.82	n/a	0.05	NP
Combined Radium 226 & 228 (pcil/l)	PM-1 (bg)	-0.2531	-94	-71	Yes	22	27.27	n/a	0.05	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01738	-161	-76	Yes	23	4.348	n/a	0.05	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.000108	-119	-76	Yes	23	4.348	n/a	0.05	NP
Lead (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Lithium (mg/L)	CBW-1 (bg)	0	-12	-76	No	23	95.65	n/a	0.05	NP
Lithium (mg/L)	PM-1 (bg)	0	23	76	No	23	86.96	n/a	0.05	NP
Mercury (mg/L)	CBW-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Mercury (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Molybdenum (mg/L)	CBW-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Molybdenum (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Selenium (mg/L)	CBW-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	PM-1 (bg)	0	0	71	No	22	100	n/a	0.05	NP
Thallium (mg/L)	CBW-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Thallium (mg/L)	PM-1 (bg)	0	0	66	No	21	100	n/a	0.05	NP

Sen's Slope Estimator



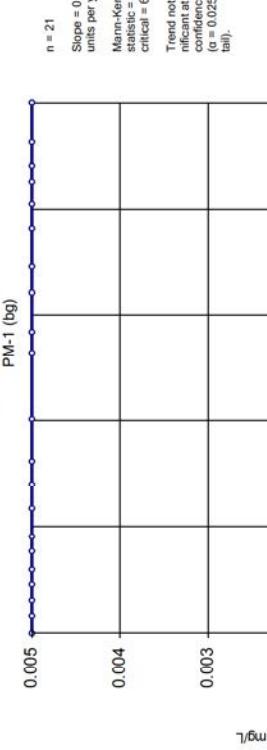
Constituent: Antimony
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



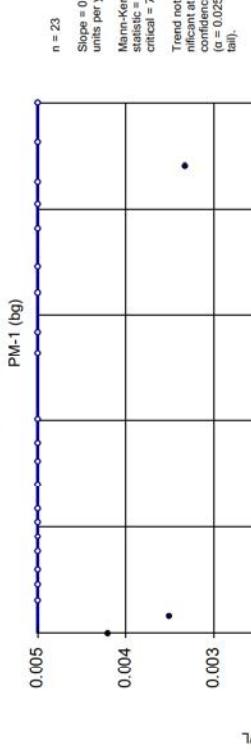
Constituent: Antimony
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



Constituent: Antimony
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



Constituent: Antimony
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

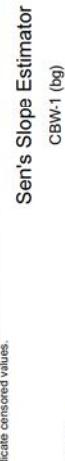
Constituent: Arsenic
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Constituent: Antimony
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP



Constituent: Barium Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

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Hollow symbols indicate censored values.

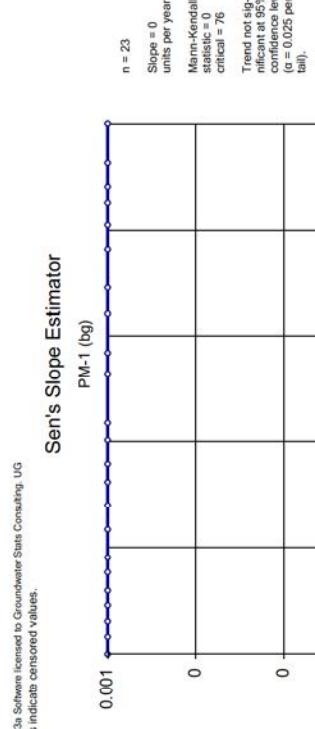


Constituent: Barium Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.



Constituent: Barium Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

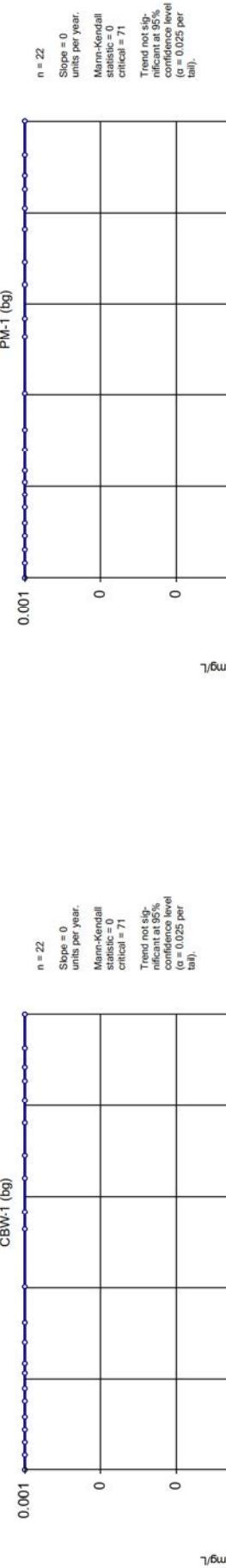


Constituent: Barium Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

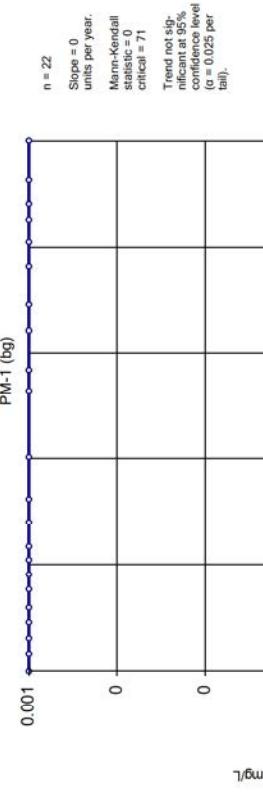
Constituent: Beryllium Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Constituent: Barium Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



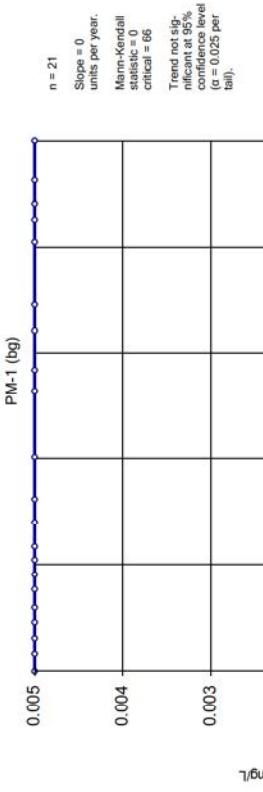
Sen's Slope Estimator



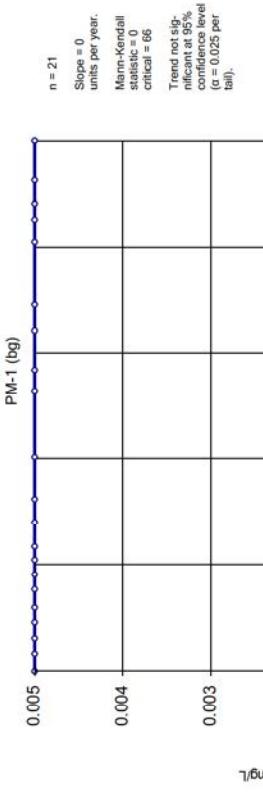
Sen's Slope Estimator



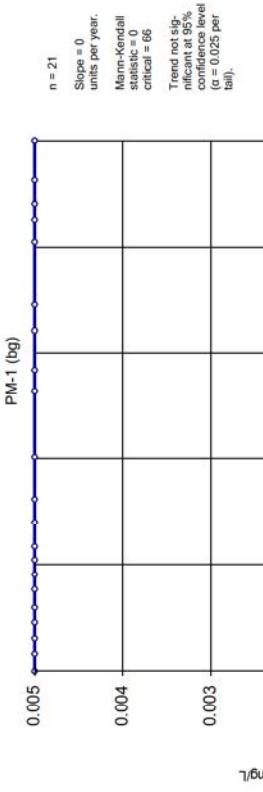
Sen's Slope Estimator



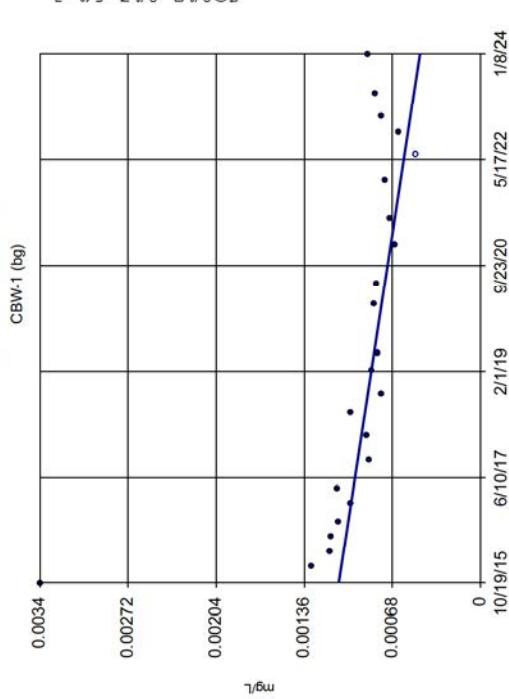
Sen's Slope Estimator



Sen's Slope Estimator

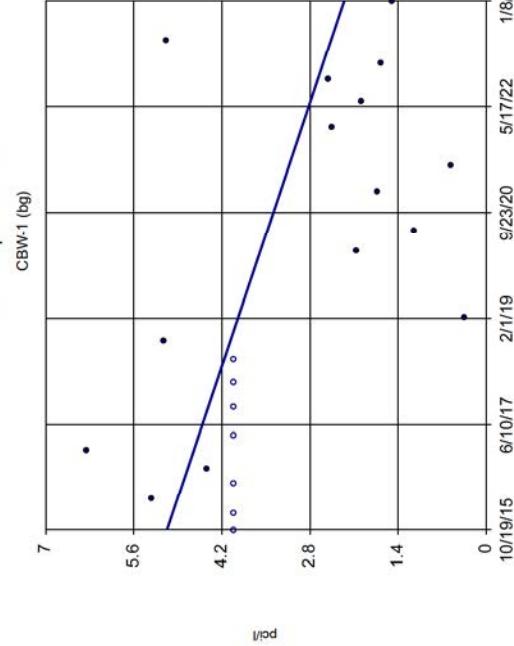


Sen's Slope Estimator



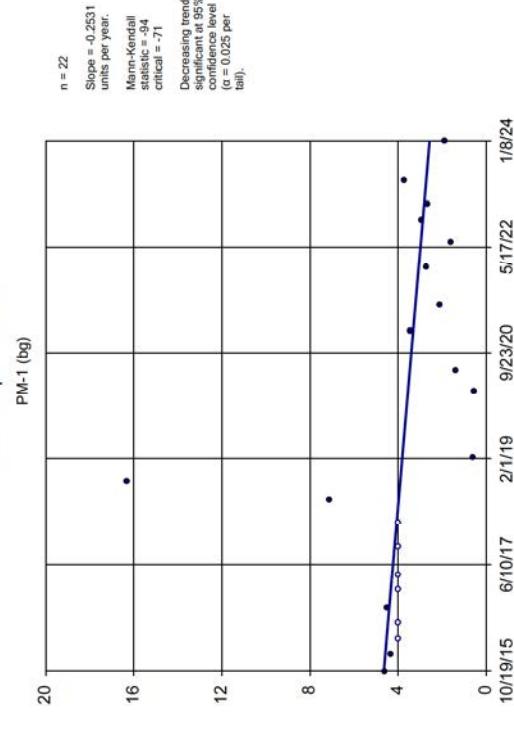
Constituent: Cobalt CGYP Client: Santee Cooper Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells Data: CGYP

Sen's Slope Estimator



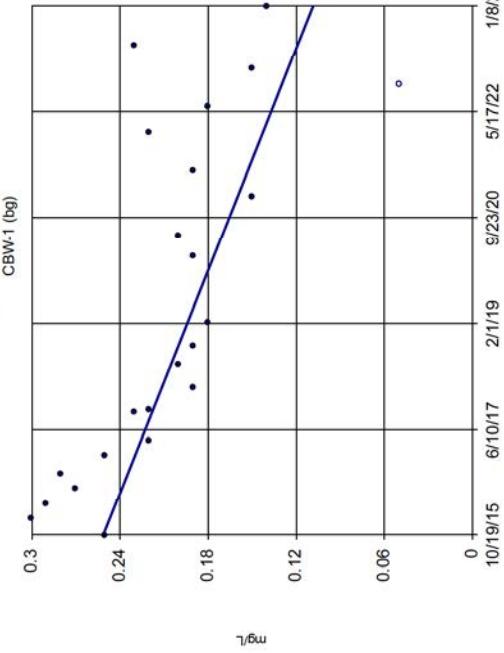
Constituent: Cobalt CGYP Client: Santee Cooper Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells Data: CGYP

Sen's Slope Estimator

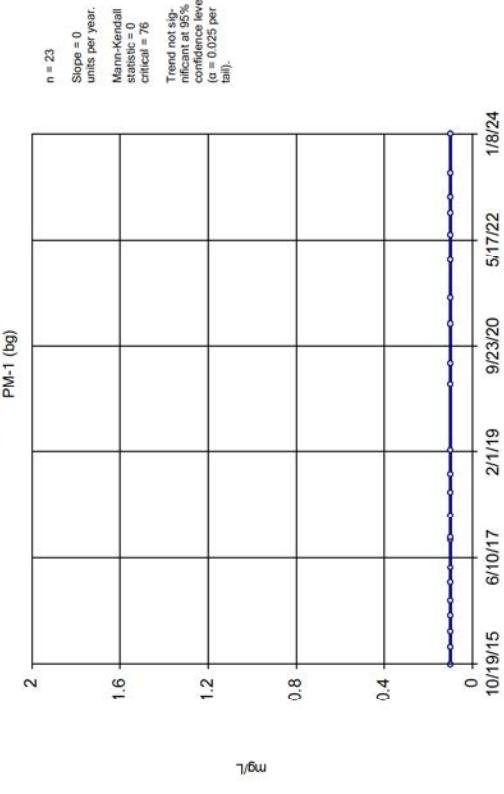


Constituent: Cobalt CGYP Client: Santee Cooper Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells Data: CGYP

Sen's Slope Estimator



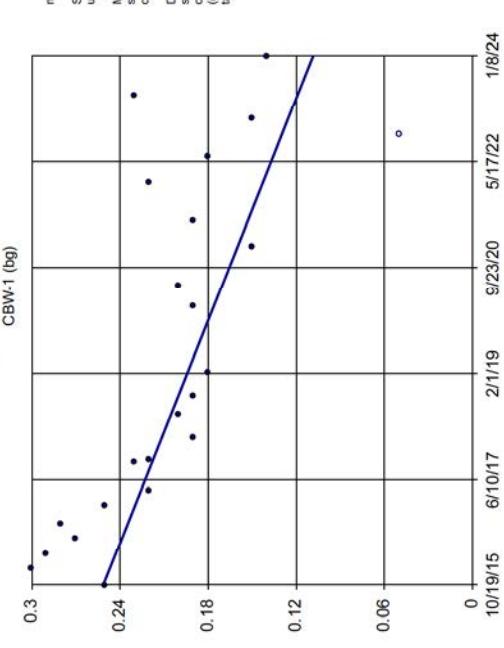
Sen's Slope Estimator



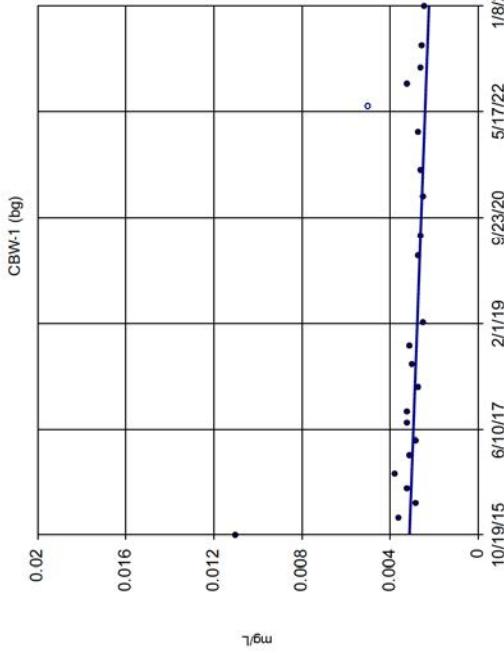
n = 23

Slope = 0 units per year.
Mann-Kendall statistic = 0 critical = 76
Trend not significant at 95% confidence level ($\alpha = 0.025$ per tail).

Sen's Slope Estimator



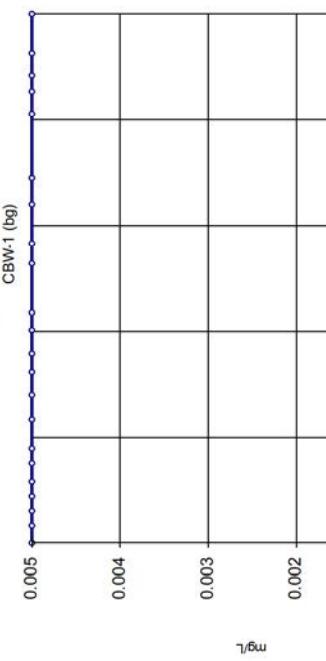
Sen's Slope Estimator



n = 22

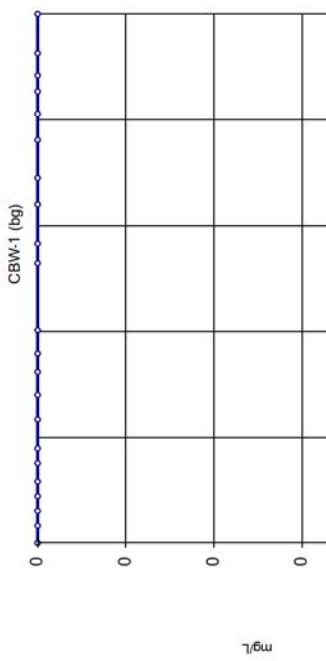
Slope = 0 units per year.
Mann-Kendall statistic = 0 critical = 71
Trend not significant at 95% confidence level ($\alpha = 0.025$ per tail).

Sen's Slope Estimator

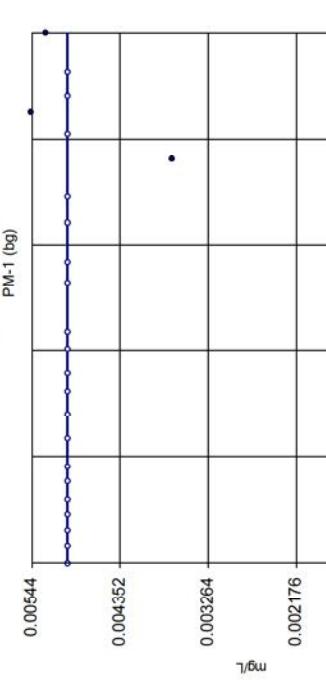


Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

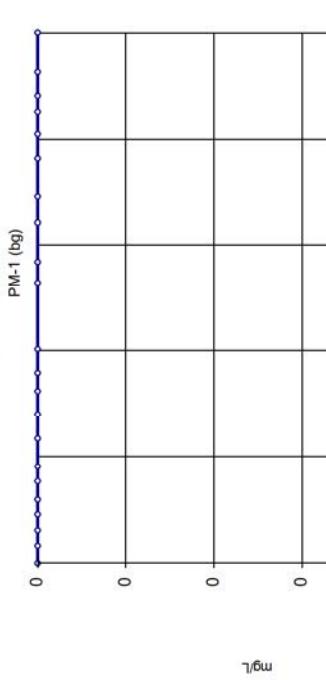


Sen's Slope Estimator



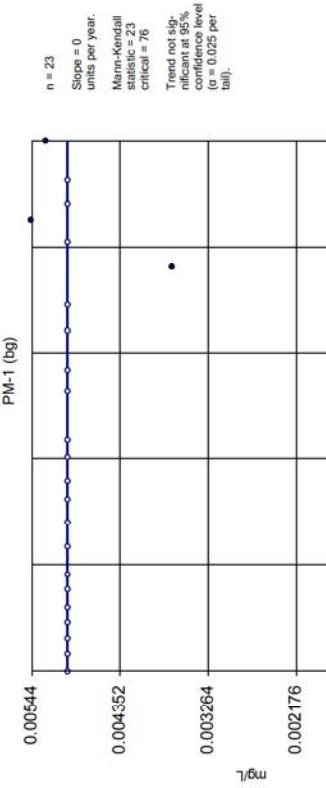
Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Sen's Slope Estimator



Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Sen's Slope Estimator



n = 23
Slope = 0 units per year.
Mann-Kendall statistic = 23 critical = 76
Trend not significant at 95% confidence level ($\alpha = 0.025$ per tail).

Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Sen's Slope Estimator



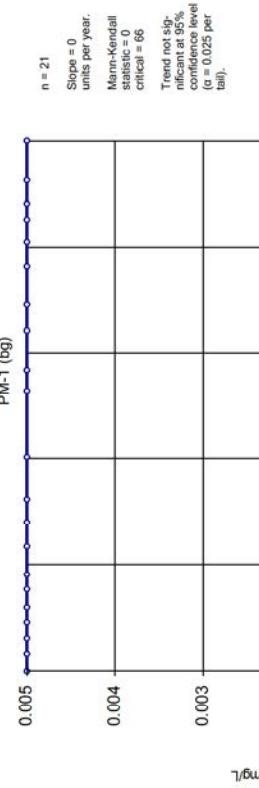
Constituent: Molybdenum Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



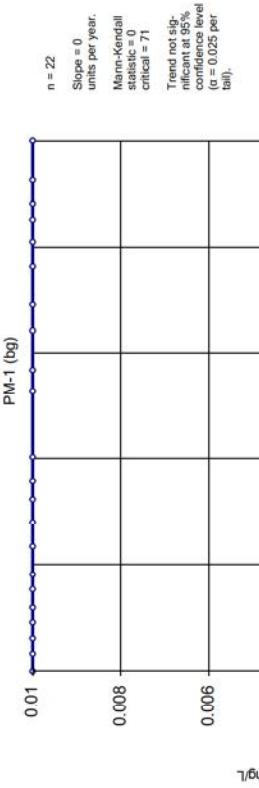
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



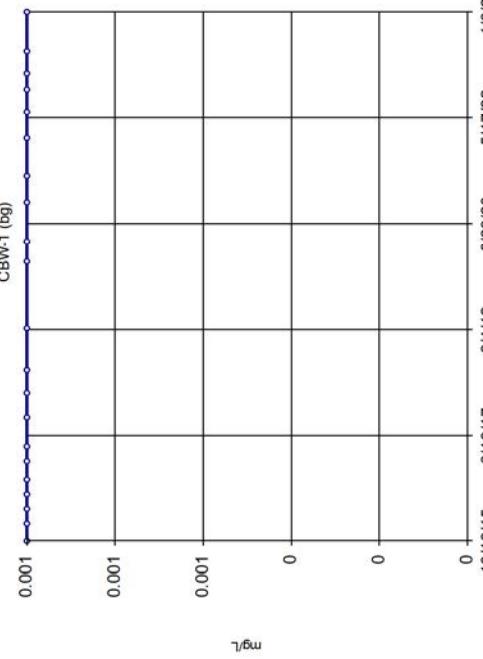
Constituent: Molybdenum Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



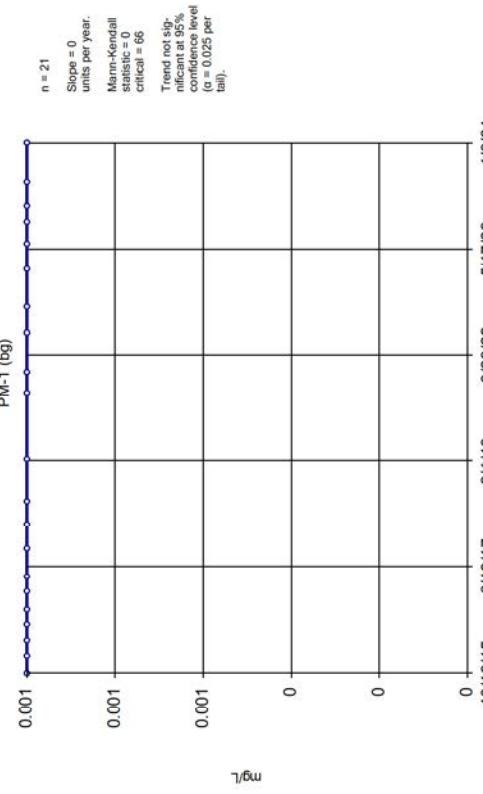
Constituent: Molybdenum Analysis Run 10/30/2024 12:33 PM View: Appendix IV Upgradient Wells
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



Constituent: Thallium
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
Data: CGYP

Sen's Slope Estimator



Constituent: Thallium
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:33 PM
View: Appendix IV Upgradient Wells
Data: CGYP

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	6/12/2024	8.84	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-3	0.836	n/a	6/13/2024	12.2	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-4	0.836	n/a	6/12/2024	4.73	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-6	0.836	n/a	6/13/2024	0.925	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-7	0.836	n/a	6/12/2024	8.65	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-1	119	n/a	6/12/2024	207	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-2	119	n/a	6/12/2024	208	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-3	119	n/a	6/13/2024	418	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-4	119	n/a	6/12/2024	209	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-6	119	n/a	6/13/2024	297	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-7	119	n/a	6/12/2024	327	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-1	13.5	n/a	6/12/2024	707	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-2	13.5	n/a	6/12/2024	45.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-3	13.5	n/a	6/13/2024	699	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-4	13.5	n/a	6/12/2024	307	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-6	13.5	n/a	6/13/2024	167	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-7	13.5	n/a	6/12/2024	558	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Fluoride (mg/L)	CGYP-1	0.3	n/a	6/12/2024	1.03	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-2	0.3	n/a	6/12/2024	0.96	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-3	0.3	n/a	6/13/2024	1.94	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-4	0.3	n/a	6/12/2024	1.5	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-7	0.3	n/a	6/12/2024	1.08	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
pH, Field (pH units)	CGYP-1	5.58	4.09	6/12/2024	3.98	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-2	5.58	4.09	6/12/2024	4.06	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-4	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-6	5.58	4.09	6/13/2024	6.56	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-7	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-1	115	n/a	6/12/2024	339	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-2	115	n/a	6/12/2024	787	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-3	115	n/a	6/13/2024	859	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-4	115	n/a	6/12/2024	497	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-6	115	n/a	6/13/2024	384	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-7	115	n/a	6/12/2024	712	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	CGYP-1	205.3	n/a	6/12/2024	1631	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-2	205.3	n/a	6/12/2024	1240	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-3	205.3	n/a	6/13/2024	2489	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-4	205.3	n/a	6/12/2024	1176	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-6	205.3	n/a	6/13/2024	1415	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-7	205.3	n/a	6/12/2024	1734	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2

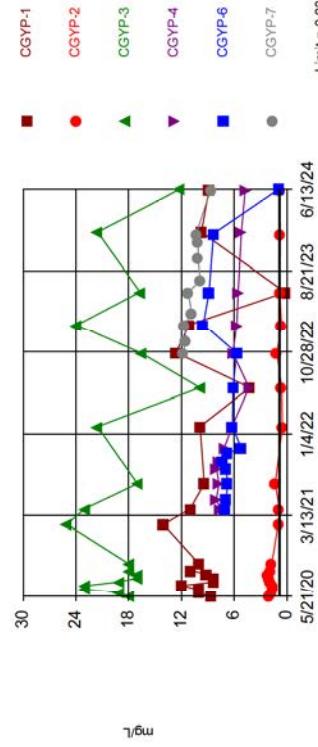
Appendix III Interwell Prediction Limits - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	CGYP-1	0.836	n/a	6/12/2024	8.84	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-2	0.836	n/a	6/12/2024	0.829	No	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-3	0.836	n/a	6/13/2024	12.2	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-4	0.836	n/a	6/12/2024	4.73	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-6	0.836	n/a	6/13/2024	0.925	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Boron (mg/L)	CGYP-7	0.836	n/a	6/12/2024	8.65	Yes	49	n/a	n/a	22.45	n/a	n/a	0.0007792	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-1	119	n/a	6/12/2024	207	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-2	119	n/a	6/12/2024	208	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-3	119	n/a	6/13/2024	418	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-4	119	n/a	6/12/2024	209	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-6	119	n/a	6/13/2024	297	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Calcium (mg/L)	CGYP-7	119	n/a	6/12/2024	327	Yes	51	n/a	n/a	0	n/a	n/a	0.0007185	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-1	13.5	n/a	6/12/2024	707	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-2	13.5	n/a	6/12/2024	45.7	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-3	13.5	n/a	6/13/2024	699	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-4	13.5	n/a	6/12/2024	307	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-6	13.5	n/a	6/13/2024	167	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Chloride (mg/L)	CGYP-7	13.5	n/a	6/12/2024	558	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Fluoride (mg/L)	CGYP-1	0.3	n/a	6/12/2024	1.03	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-2	0.3	n/a	6/12/2024	0.96	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-3	0.3	n/a	6/13/2024	1.94	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-4	0.3	n/a	6/12/2024	1.5	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-6	0.3	n/a	6/13/2024	0.2	No	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	CGYP-7	0.3	n/a	6/12/2024	1.08	Yes	48	n/a	n/a	52.08	n/a	n/a	0.000818	NP Inter (NDs) 1 of 2
pH, Field (pH units)	CGYP-1	5.58	4.09	6/12/2024	3.98	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-2	5.58	4.09	6/12/2024	4.06	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-3	5.58	4.09	6/13/2024	4.25	No	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-4	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-6	5.58	4.09	6/13/2024	6.56	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
pH, Field (pH units)	CGYP-7	5.58	4.09	6/12/2024	3.88	Yes	56	n/a	n/a	0	n/a	n/a	0.001218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-1	115	n/a	6/12/2024	339	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-2	115	n/a	6/12/2024	787	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-3	115	n/a	6/13/2024	859	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-4	115	n/a	6/12/2024	497	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-6	115	n/a	6/13/2024	384	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Sulfate (mg/L)	CGYP-7	115	n/a	6/12/2024	712	Yes	52	n/a	n/a	0	n/a	n/a	0.0006966	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	CGYP-1	205.3	n/a	6/12/2024	1631	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-2	205.3	n/a	6/12/2024	1240	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-3	205.3	n/a	6/13/2024	2489	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-4	205.3	n/a	6/12/2024	1176	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-6	205.3	n/a	6/13/2024	1415	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	CGYP-7	205.3	n/a	6/12/2024	1734	Yes	56	131.5	39.05	3.571	None	No	0.001254	Param Inter 1 of 2

Exceeds Limit: CGYP-1, CGYP-3, CGYP-4,
CGYP-6, CGYP-7

Prediction Limit
Interwell Non-parametric



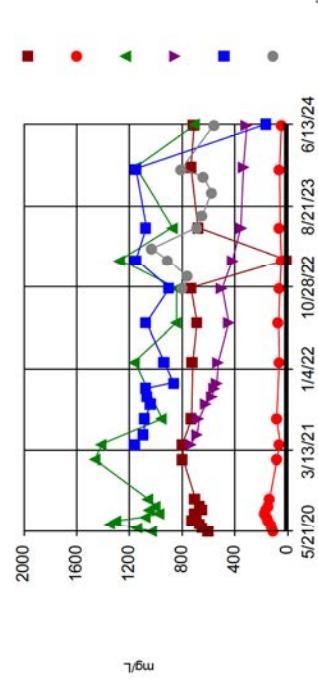
Non-parametric test used in lieu of parametric prediction limit; because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. 22.45% NDs. Annual per-constituent alpha = 0.00931. Individual comparison alpha = 0.0007792 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Constituent: Calcium Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3,
CGYP-4, CGYP-6, CGYP-7

Prediction Limit
Interwell Non-parametric



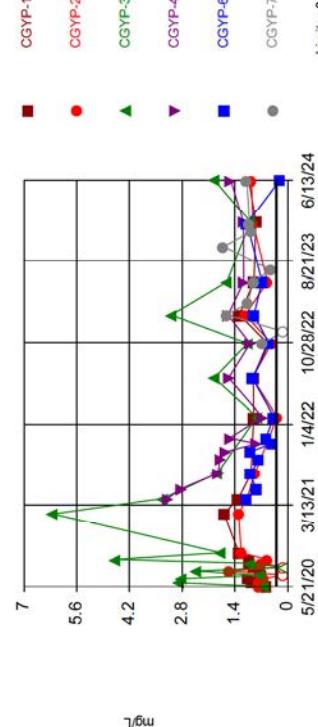
Non-parametric test used in lieu of parametric prediction limit; because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. Annual per-constituent alpha = 0.008327. Individual comparison alpha = 0.0006966 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Constituent: Fluoride Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3,
CGYP-4, CGYP-6, CGYP-7

Prediction Limit
Interwell Non-parametric

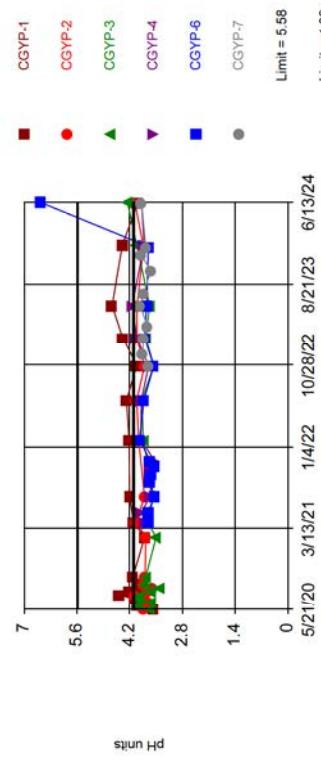


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 52.08% NDs. Annual per-constituent alpha = 0.009772. Individual comparison alpha = 0.000818 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limits: CGYP-1, CGYP-2, CGYP-3,
4, CGYP-6, CGYP-7

Prediction Limit
Interwell Non-parametric

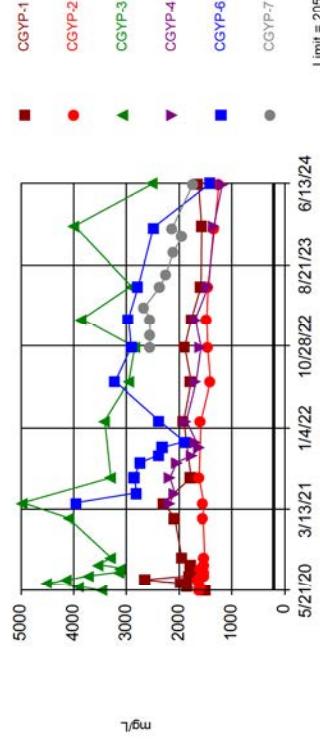


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 56 background values. Annual per-constituent alpha = 0.01457. Individual comparison alpha = 0.001218 (1 of 2). Comparing 6 points to limit.

Constituent: pH, Field Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Exceeds Limit: CGYP-1, CGYP-2, CGYP-3,
4, CGYP-6, CGYP-7

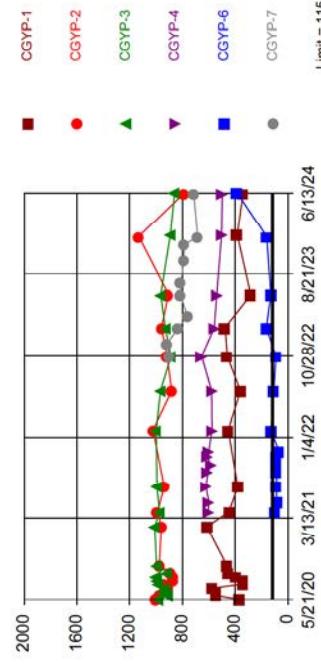
Prediction Limit
Interwell Parametric



Background Data Summary: Mean=131.5, Std. Dev.=39.05, n=56, 3,571% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9511, critical = 0.942. Kappa = 1.889 (df=7, we=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. Annual per-constituent alpha = 0.008327. Individual comparison alpha = 0.0006566 (1 or 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 10/30/2024 12:09 PM View: Interwell PLs
CGYP Client: Santee Cooper Data: CGYP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2024 12:10 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
10/19/2015	0.032	0.0178						
1/26/2016	0.0218	<0.015						
4/19/2016	0.0183	<0.015						
7/18/2016	0.0217	0.0163						
10/11/2016	0.0302	0.0165						
1/23/2017	0.0249	<0.015						
4/17/2017	0.018	0.019						
7/25/2017	0.022							
9/25/2017	0.024	0.018						
10/9/2017	0.023	0.021						
2/7/2018	0.018	<0.015						
6/20/2018	0.02	0.016						
10/1/2018	0.025	0.015						
2/12/2019	<0.015	<0.015						
2/24/2020	0.017	<0.015						
5/21/2020			2	18	8.6			
6/4/2020				1.7	19	10		
6/18/2020				1.6	23	10		
6/22/2020	0.018	0.049						
7/1/2020				23	12			
7/2/2020			1.6					
7/16/2020			1.9	19	8.3			
7/30/2020			2	17	8.3			
8/13/2020			2.1	17	9.1			
8/27/2020			1.9	18	11			
9/21/2020			1.7	18	10			
1/26/2021	0.018	<0.015						
2/10/2021			0.96	25	14			
4/7/2021			0.85	23	11	7.6	7	
5/13/2021						8	6.9	
6/21/2021	<0.015	<0.015						
7/7/2021			1.3	17	9.4			
7/8/2021						7.7	6.7	
8/31/2021							6.9	
9/1/2021						8		
9/27/2021						7.8	7.3	
10/26/2021						6.8	6.7	
11/17/2021						7.1	5.2	
1/24/2022	0.0139	0.011						
1/31/2022			0.51	21.5	9.84	6.21	6.2	
6/20/2022	0.015	<0.015						
6/21/2022			0.57	9.9	4.2	4.3	6.1	
10/25/2022	0.0203	0.0437	1.14	16.6		6.13	5.71	
10/26/2022					12.6			11.8
12/7/2022								11.5
1/24/2023	0.0175	0.0114						
2/6/2023			0.602	23.9		5.67		
2/7/2023					11.1		9.49	11.6
3/20/2023								10.8
6/5/2023		0.0184						
6/6/2023	0.836				0.191			
6/7/2023			0.781	16.7		5.53	8.85	11.2

Prediction Limit

Page 2

Constituent: Boron (mg/L) Analysis Run 10/30/2024 12:10 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
7/19/2023								9.81
10/10/2023								10.1
12/5/2023								10.1
1/4/2024			0.727				8.33	10.3
1/8/2024	0.0193	0.0142		21.5	9.72	5.18		
1/10/2024								
6/4/2024	0.0196	0.0124		0.829	8.84	4.73		8.65
6/12/2024								
6/13/2024				12.2			0.925	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2024 12:10 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
10/19/2015	27	26						
1/26/2016	27	27						
4/19/2016	29.4	23.3						
7/18/2016	28.7	18.8						
10/11/2016	22.7	16.4						
1/23/2017	26.2	10.4						
4/17/2017	25.6	12.5						
7/12/2017		18.5						
9/25/2017	21.9	15.4						
10/9/2017	23	17						
2/7/2018	24	14.7						
6/20/2018	24	37						
10/1/2018	22.7	16.6						
2/12/2019	24.4	15.9						
5/20/2019	42.2	16.4						
2/24/2020	28.2	11						
5/21/2020			311	564	204			
6/4/2020			298	658	290			
6/18/2020			299	737	289			
6/22/2020	28.4	13.5						
7/1/2020				759	315			
7/2/2020			305					
7/16/2020			295	587	204			
7/30/2020			279	545	192			
8/13/2020			293	556	224			
8/27/2020			272	579	242			
9/21/2020			276	576	252			
1/26/2021	29.2	14.3						
2/10/2021			298	729	353			
4/7/2021			273	700	276	348	480	
5/13/2021						360	468	
6/21/2021	29.9	17						
7/7/2021			253	495	218			
7/8/2021						324	438	
8/31/2021							441	
9/1/2021						319		
9/27/2021						325	474	
10/26/2021						304	455	
11/17/2021						310	396	
1/24/2022	27.9	14.4						
1/31/2022			226	563	229	254	362	
6/20/2022	29	6.2						
6/21/2022			240	460	200	270	430	
10/25/2022	27.5	13.1	214	415		231	370	
10/26/2022					193			320
12/7/2022								303
1/24/2023	29.3	12.6						
2/6/2023			301	737		266		
2/7/2023					264		520	420
3/20/2023								397
6/5/2023		12.7						
6/6/2023	33.9				181			

Prediction Limit

Page 2

Constituent: Calcium (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
6/7/2023			254	508		254	486	377
7/19/2023								262
10/10/2023								372
12/5/2023								345
1/4/2024			173				474	343
1/8/2024	25	119		665	257	221		
1/10/2024								
6/4/2024	24.7	10.5		208	207	209		327
6/12/2024								
6/13/2024				418			297	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run: 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
10/19/2015	3.21	12.7						
1/26/2016	2.95	11.3						
4/19/2016	2.33	12.1						
7/18/2016	2.95	13.2						
10/11/2016	3	12.8						
1/23/2017	2.45	13.5						
4/17/2017	2.96	12.7						
7/12/2017		12.1						
7/25/2017	2.61							
9/25/2017	2.51	13.3						
10/9/2017	2.73	12.6						
2/7/2018	2.88	12.4						
6/20/2018	3	13.4						
10/1/2018	2.71	12.9						
2/12/2019	2.68	12.1						
5/20/2019	2.9	12.7						
2/24/2020	3.25	12.7						
5/21/2020			103	1030	600			
6/4/2020			117	1140	644			
6/18/2020			127	1340	666			
6/22/2020	3.44	12.67						
7/1/2020				1300	717			
7/2/2020			145					
7/16/2020			153	1070	694			
7/30/2020			176	971	703			
8/13/2020			163	1050	647			
8/27/2020			146	998	666			
9/21/2020			136	1060	699			
1/26/2021	3.22	11.8						
2/10/2021			79.5	1460	791			
4/7/2021			55.87	1405	795	733	1160	
5/13/2021						683	1090	
6/21/2021	3.05	12						
7/7/2021			83.1	950	728			
7/8/2021						670	1082	
8/31/2021							1033	
9/1/2021						617		
9/27/2021						574	1061	
10/26/2021						553	1070	
11/17/2021						537	865	
1/24/2022	3.21	12.1						
1/31/2022			63	1160	717	523	937	
6/20/2022	3.79	13.4						
6/21/2022			66.4	841	686	445	1070	
10/25/2022	3.78	12.7	57.3	842		495	896	
10/26/2022					733			797
12/7/2022								761
1/24/2023	3	12.3						
2/6/2023			46	1270		417		
2/7/2023					7.21		1150	910
3/20/2023								1030
6/5/2023		12.4						

Prediction Limit

Page 2

Constituent: Chloride (mg/L) Analysis Run: 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
6/6/2023		3.73			679			
6/7/2023				55.9	872		353	1070
7/19/2023								648
10/10/2023								575
12/5/2023								638
1/4/2024				59.3			1150	802
1/8/2024	3.48	12.8						
1/10/2024					1150	733	334	
6/4/2024	3.22	12.1		45.7		707	307	
6/12/2024								558
6/13/2024					699			167

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
10/19/2015	0.25	<0.1						
1/26/2016	0.3	<0.1						
4/19/2016	0.29	<0.1						
7/18/2016	0.27	<0.1						
10/11/2016	0.28	<0.1						
1/23/2017	0.25	<0.1						
4/17/2017	0.22	<0.1						
9/25/2017	0.23	<0.1						
10/9/2017	0.22	<0.1						
2/7/2018	0.19	<0.1						
6/20/2018	0.2	<0.1						
10/1/2018	0.19	<0.1						
2/12/2019	0.18	<0.1						
2/24/2020	0.19	<0.1						
5/21/2020			0.75	0.65	0.58			
6/4/2020			0.75	2.89	0.96			
6/18/2020			0.62	2.82	1.05			
6/22/2020	0.2	<0.1						
7/1/2020			0.73	0.69				
7/2/2020		<0.1						
7/16/2020			1.55	2.41	0.72			
7/30/2020			<0.1	<0.1	0.91			
8/13/2020			0.71	1	1.04			
8/27/2020			0.54	4.57	1.02			
9/21/2020			1.23	1.77	1.29			
1/26/2021	0.15	<0.1						
2/10/2021			1.3	6.22	1.69			
4/7/2021			1.08	3.32	1.31	1.1	3.19	
5/13/2021						0.84	2.82	
6/21/2021	0.19	<0.1						
7/7/2021			0.87	1.88	0.97			
7/8/2021						0.99	1.85	
8/31/2021						0.75		
9/1/2021							1.79	
9/27/2021						0.98	1.63	
10/26/2021						0.42	0.83	
11/17/2021						0.58	1.53	
1/24/2022	0.22	<0.1						
1/31/2022			0.28	0.81	0.9	0.36	0.67	
6/20/2022	0.18	<0.1						
6/21/2022			0.93	1.94	0.91	0.93	1.56	
10/25/2022	<0.1	<0.1	0.42	1.06		0.49	0.99	
10/26/2022					0.53			0.66
12/7/2022								<0.1
1/24/2023	0.15	<0.1						
2/6/2023			1.12	3.08			1.58	
2/7/2023					1.28	0.89		1.61
3/20/2023								1.06
6/5/2023		<0.1						
6/6/2023	0.23				0.89			
6/7/2023			0.53	1.6		0.68	1.16	0.91
7/19/2023								0.44

Prediction Limit

Page 2

Constituent: Fluoride (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-6	CGYP-4	CGYP-7
10/10/2023								1.7
12/5/2023								0.96
1/4/2024			0.92			1.08		1.01
1/8/2024	0.14	<0.1						
1/10/2024				0.98	0.84		1.17	
6/4/2024	0.13	<0.1						
6/12/2024			0.96		1.03		1.5	1.08
6/13/2024				1.94		0.2		

Prediction Limit

Constituent: pH, Field (pH units) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-3	CGYP-1	CGYP-2	CGYP-6	CGYP-4	CGYP-7
1/26/2015	4.53							
2/16/2015	4.68							
6/16/2015	4.74							
7/6/2015	5.25							
10/19/2015	5.47	4.45						
1/26/2016	5.2	4.12						
4/19/2016	5.32	4.33						
7/18/2016	5.2	4.38						
10/11/2016	5.01	4.14						
1/23/2017	5.01	4.32						
4/17/2017	5.19	4.26						
7/12/2017	5.11							
7/25/2017		4.21						
9/25/2017	5.27	4.32						
10/9/2017	5.21	4.25						
2/7/2018	5.29	4.42						
6/20/2018	5.58	4.32						
10/1/2018	5.08	4.09						
2/12/2019	5.47	4.5						
5/20/2019	5.26	4.5						
2/24/2020	4.92	4.09						
5/21/2020			3.66	3.58	3.82			
6/4/2020			3.99	3.98	3.86			
6/18/2020			3.63	3.89	3.69			
6/22/2020	5.12	4.48						
7/1/2020			3.96	4.06				
7/2/2020					3.79			
7/16/2020			3.93	4.48	4.06			
7/30/2020			3.63	4.22	3.72			
8/13/2020			3.4	3.92	3.59			
8/27/2020			3.81	3.98	3.81			
9/21/2020			3.77	4.11	3.79			
1/26/2021	5.03	4.31						
2/10/2021			3.5	3.8	3.77			
4/7/2021			3.73	4.1	4.02	3.68	3.78	
5/13/2021						3.7	3.88	
6/21/2021	5.21	4.25						
7/7/2021			3.56	4.19	3.8			
7/8/2021						3.54	3.65	
8/31/2021						3.67		
9/1/2021							3.65	
9/27/2021						3.62	3.65	
10/26/2021						3.54	3.66	
11/17/2021						3.66	3.54	
1/24/2022	5.19	4.26						
1/31/2022			3.84	4.21	3.96	3.93	3.9	
6/20/2022	4.84	4.45						
6/21/2022			3.87	4.28	4.01	3.82	3.89	
10/25/2022	5.01	4.31	3.56		3.8	3.56	3.69	
10/26/2022				4.01				3.69
12/7/2022								3.85
1/24/2023	4.84	4.23						

Prediction Limit

Page 2

Constituent: pH, Field (pH units) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-3	CGYP-1	CGYP-2	CGYP-6	CGYP-4	CGYP-7
2/6/2023			3.77		4.01		4.01	
2/7/2023				4.38		3.8		3.82
3/20/2023								3.72
6/5/2023	5.08							
6/6/2023		4.34		4.66				
6/7/2023			3.67		4	3.74	4.13	3.92
7/19/2023								3.83
10/10/2023								3.63
12/5/2023								3.9
1/4/2024					3.83	3.7		3.77
1/8/2024	5.13	4.44						
1/10/2024			4.01	4.39			3.81	
6/4/2024	5.2	4.54						
6/12/2024				3.98	4.06		3.88	3.88
6/13/2024			4.25			6.56		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
10/19/2015	81.5	26.5						
1/26/2016	88.2	25.5						
4/19/2016	86	20.2						
7/18/2016	90.1	16						
10/11/2016	73.7	19.3						
1/23/2017	77.7	8.82						
4/17/2017	71.2	9.71						
7/12/2017		11.1						
7/25/2017	73.3							
9/25/2017	74.5	8.03						
10/9/2017	76.8	8.77						
2/7/2018	69.1	13.5						
6/20/2018	67.9	8.58						
10/1/2018	65.5	11.9						
2/12/2019	69.1	8.96						
5/20/2019	115	10.5						
2/24/2020	79.8	8.36						
5/21/2020			1000	978	364			
6/4/2020			968	911	544			
6/18/2020			932	946.1	540			
6/22/2020	79.9	8.32						
7/1/2020				924	575			
7/2/2020			908					
7/16/2020			933	983	338			
7/30/2020			868	991	340			
8/13/2020			868	999	391			
8/27/2020			885	913	448			
9/21/2020			976	995	460			
1/26/2021	80.7	9.98						
2/10/2021			957	1010	613			
4/7/2021			987	972	445	602	96.3	
5/13/2021						598	83.6	
6/21/2021	86.6	11.9						
7/7/2021			937	993	377			
7/8/2021						621	84.3	
8/31/2021							84.3	
9/1/2021						605		
9/27/2021						584	90.9	
10/26/2021						611	92.7	
11/17/2021						600	67	
1/24/2022	82.8	11.7						
1/31/2022			1020	998	451	575	128	
6/20/2022	78.3	6.59						
6/21/2022			881	966	359	576	106	
10/25/2022	80.4	7.99	914	885		652	89.3	
10/26/2022					458			894
12/7/2022								920
1/24/2023	84.2	8.12						
2/6/2023			958	928		557		
2/7/2023					476		163	830
3/20/2023								761
6/5/2023		9.11						

Prediction Limit

Page 2

Constituent: Sulfate (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	CBW-1 (bg)	PM-1 (bg)	CGYP-2	CGYP-3	CGYP-1	CGYP-4	CGYP-6	CGYP-7
6/6/2023	97.1				282			
6/7/2023			904	964		538	129	813
7/19/2023								810
10/10/2023								789
12/5/2023								782
1/4/2024			1130				161	684
1/8/2024	83.6	7.62						
1/10/2024				889	384	502		
6/4/2024	89.6	7.75						
6/12/2024			787		339	497		712
6/13/2024				859			384	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-3	CGYP-1	CGYP-2	CGYP-6	CGYP-4	CGYP-7
1/26/2015	142.5							
2/16/2015	106.2							
6/16/2015	158							
7/6/2015	151							
10/19/2015	206	150						
1/26/2016	165	120						
4/19/2016	130	120						
7/18/2016	124	132						
10/11/2016	200	151.7						
1/23/2017	138	148						
4/17/2017	56	62						
7/12/2017	108							
7/25/2017		92						
9/25/2017	<40	<40						
10/9/2017	80	115						
2/7/2018	112	92						
6/20/2018	200	138.8						
10/1/2018	130	107.5						
2/12/2019	136.2	135						
5/20/2019	162.5	181.2						
2/24/2020	120	107.5						
5/21/2020			3449	1505	1609			
6/4/2020			3895	1839	1589			
6/18/2020			4502	1964	1624			
6/22/2020	112.5	147.5						
7/1/2020			4120	2650				
7/2/2020					1634			
7/16/2020			3700	1811	1512			
7/30/2020			3138	1541	1515			
8/13/2020			3102	1768	1599			
8/27/2020			3519	1772	1523			
9/21/2020			3288	1945	1515			
1/26/2021	110	138.8						
2/10/2021			4090	2081	1538			
4/7/2021			4958	2301	1536	3952	2178	
5/13/2021						2804	2078	
6/21/2021	155	178.8						
7/7/2021			3291	1770	1618			
7/8/2021						2851	2168	
8/31/2021						2740		
9/1/2021							2038	
9/27/2021						2382	1749	
10/26/2021						2306	1614	
11/17/2021						1899	1676	
1/24/2022	128.8	130						
1/31/2022			3410	1912	1582	2379	1864	
6/20/2022	137.5	143.8						
6/21/2022			2952	1771	1408	3210	1676	
10/25/2022	96.25	110	2835		1454	2902	1585	
10/26/2022				1894				2545
12/7/2022								2554
1/24/2023	111.2	142.5						

Prediction Limit

Page 2

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2024 12:11 PM View: Interwell PLs

CGYP Client: Santee Cooper Data: CGYP

	PM-1 (bg)	CBW-1 (bg)	CGYP-3	CGYP-1	CGYP-2	CGYP-6	CGYP-4	CGYP-7
2/6/2023			3838		1474		1689	
2/7/2023				1764		2959		2546
3/20/2023								2665
6/5/2023	130							
6/6/2023		178.8		1584				
6/7/2023			2906		1451	2774	1445	2355
7/19/2023								2252
10/10/2023								2101
12/5/2023								1935
1/4/2024					1328	2484		2120
1/8/2024	193.8	188.8						
1/10/2024			3978	1570			1339	
6/4/2024	143.8	170						
6/12/2024				1631	1240		1176	1734
6/13/2024			2489			1415		

FIGURE F.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

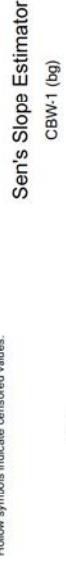
CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:48 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	CGYP-4	-1.06	-66	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-29.62	-110	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-44.27	-74	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-25.15	-93	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-139.6	-89	-48	Yes	14	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Sulfate (mg/L)	CGYP-4	-35.84	-51	-48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-6	27.87	52	48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-109.8	-33	-30	Yes	10	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-61.54	-92	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-297	-70	-48	Yes	14	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-7	-544.5	-31	-30	Yes	10	0	n/a	0.01	NP

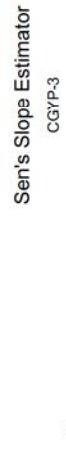
Appendix III Trend Tests - Prediction Limit Exceedances - All Results

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:48 PM

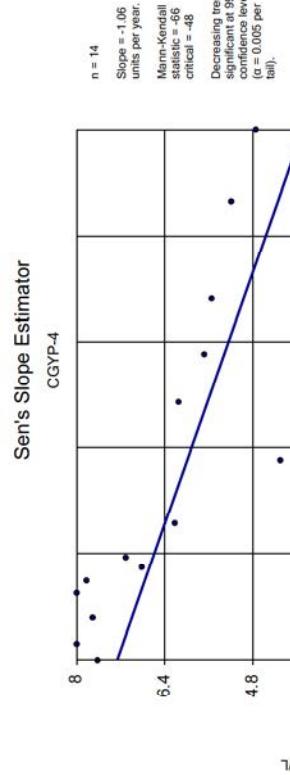
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	CBW-1 (bg)	-0.0006235	-89	-111	No	25	8	n/a	0.01	NP
Boron (mg/L)	CGYP-1	-0.06178	-6	-74	No	19	0	n/a	0.01	NP
Boron (mg/L)	CGYP-3	-0.5432	-34	-74	No	19	0	n/a	0.01	NP
Boron (mg/L)	CGYP-4	-1.06	-66	-48	Yes	14	0	n/a	0.01	NP
Boron (mg/L)	CGYP-6	-0.6699	-13	-48	No	14	0	n/a	0.01	NP
Boron (mg/L)	CGYP-7	-1.664	-30	-30	No	10	0	n/a	0.01	NP
Boron (mg/L)	PM-1 (bg)	-0.0002129	-63	-105	No	24	37.5	n/a	0.01	NP
Calcium (mg/L)	CBW-1 (bg)	0.3169	57	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-1	-9.16	-32	-74	No	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-2	-29.62	-110	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-3	-42.37	-50	-74	No	19	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-4	-44.27	-74	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-6	-28.58	-16	-48	No	14	0	n/a	0.01	NP
Calcium (mg/L)	CGYP-7	-44.73	-9	-30	No	10	0	n/a	0.01	NP
Calcium (mg/L)	PM-1 (bg)	-0.9085	-121	-118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CBW-1 (bg)	0.0981	149	118	Yes	26	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-1	13.22	48	74	No	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-2	-25.15	-93	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-3	-73.54	-43	-74	No	19	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-4	-139.6	-89	-48	Yes	14	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-6	-43.98	-21	-48	No	14	0	n/a	0.01	NP
Chloride (mg/L)	CGYP-7	-153.7	-21	-30	No	10	0	n/a	0.01	NP
Chloride (mg/L)	PM-1 (bg)	-0.01932	-34	-118	No	26	0	n/a	0.01	NP
Fluoride (mg/L)	CBW-1 (bg)	-0.01712	-182	-105	Yes	24	4.167	n/a	0.01	NP
Fluoride (mg/L)	CGYP-1	0.02045	8	74	No	19	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-2	0.05169	15	74	No	19	10.53	n/a	0.01	NP
Fluoride (mg/L)	CGYP-3	0.04559	6	74	No	19	5.263	n/a	0.01	NP
Fluoride (mg/L)	CGYP-4	-0.416	-45	-48	No	14	0	n/a	0.01	NP
Fluoride (mg/L)	CGYP-7	0.2305	13	30	No	10	10	n/a	0.01	NP
Fluoride (mg/L)	PM-1 (bg)	0	0	105	No	24	100	n/a	0.01	NP
pH, Field (pH units)	CBW-1 (bg)	0.01189	44	118	No	26	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-1	0.123	68	74	No	19	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-2	0.05604	53	74	No	19	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-4	0.06994	31	48	No	14	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-6	0.06528	27	48	No	14	0	n/a	0.01	NP
pH, Field (pH units)	CGYP-7	0.05028	7	30	No	10	0	n/a	0.01	NP
pH, Field (pH units)	PM-1 (bg)	0	-10	-146	No	30	0	n/a	0.01	NP
Sulfate (mg/L)	CBW-1 (bg)	1.043	62	118	No	26	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-1	-19.37	-29	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-2	-3.736	-6	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-3	-9.458	-29	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-4	-35.84	-51	-48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-6	27.87	52	48	Yes	14	0	n/a	0.01	NP
Sulfate (mg/L)	CGYP-7	-109.8	-33	-30	Yes	10	0	n/a	0.01	NP
Sulfate (mg/L)	PM-1 (bg)	-0.8674	-172	-118	Yes	26	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CBW-1 (bg)	5.193	88	118	No	26	3.846	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-1	-37.16	-35	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-2	-61.54	-92	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-3	-216.4	-53	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-4	-297	-70	-48	Yes	14	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-6	-356.5	-23	-48	No	14	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	CGYP-7	-544.5	-31	-30	Yes	10	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	PM-1 (bg)	-1.109	-29	-146	No	30	3.333	n/a	0.01	NP



Constituent: Boron Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Boron Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



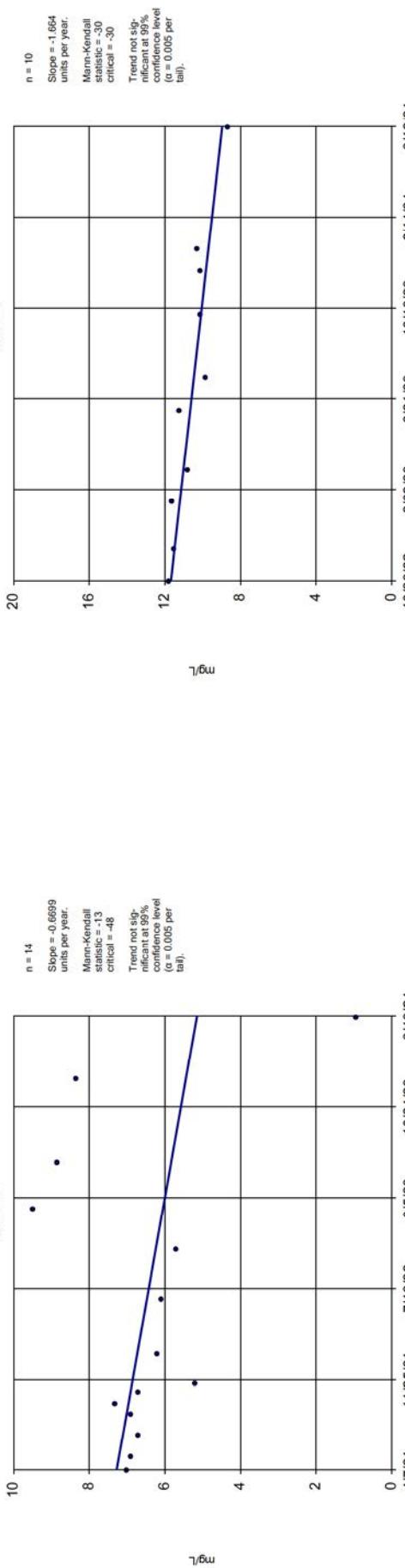
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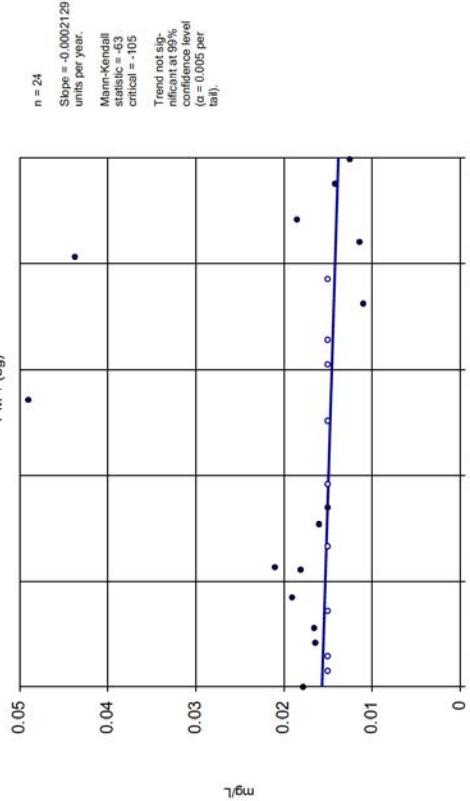
Sen's Slope Estimator CGYP-6



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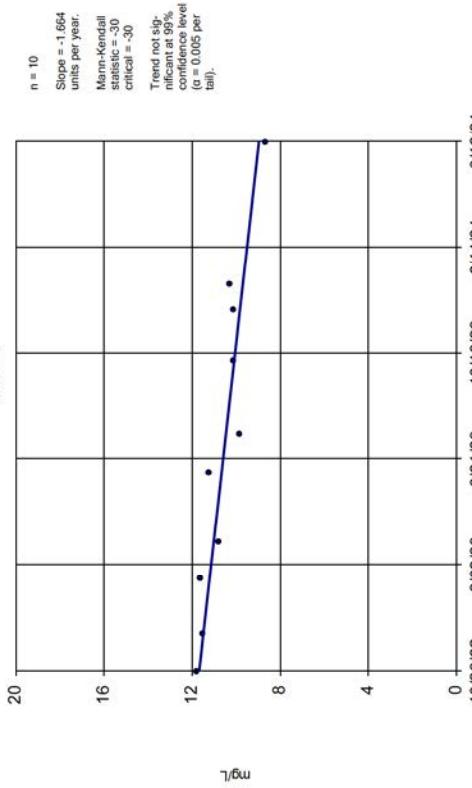
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Hollow symbols indicate censored values.

Sen's Slope Estimator PM-1 (bg)



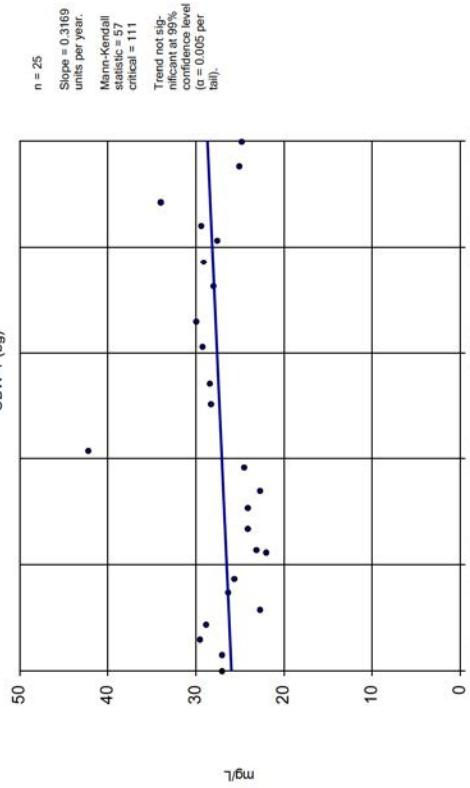
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-7



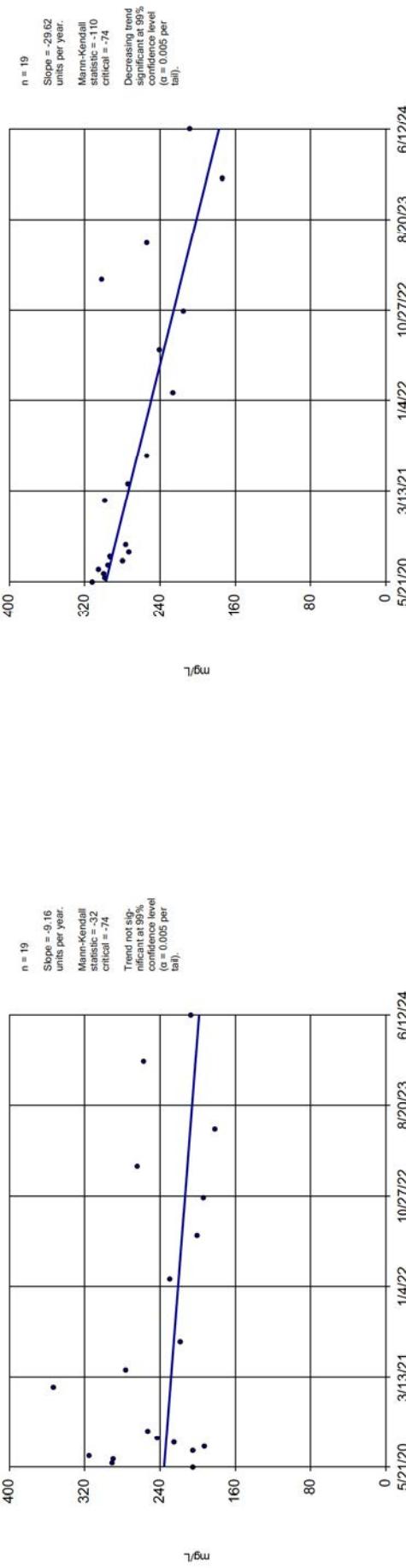
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CBW-1 (bg)



Constituent: Calcium Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

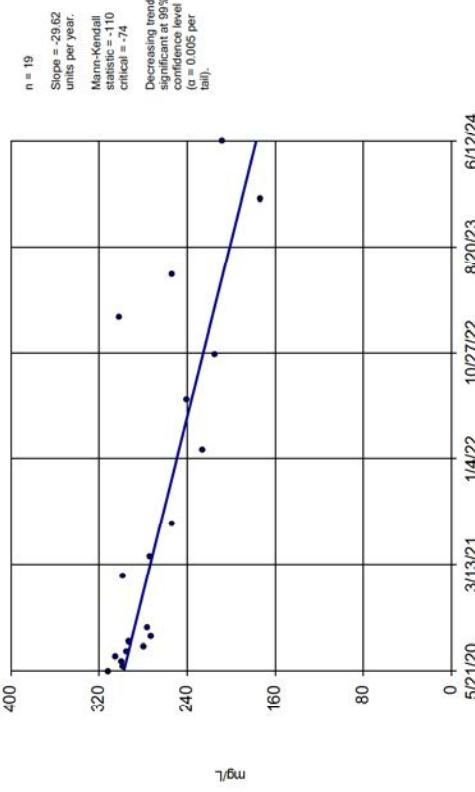
Sen's Slope Estimator CGYP-1



Constituent: Calcium Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
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CGYP Client: Santee Cooper Data: CGYP

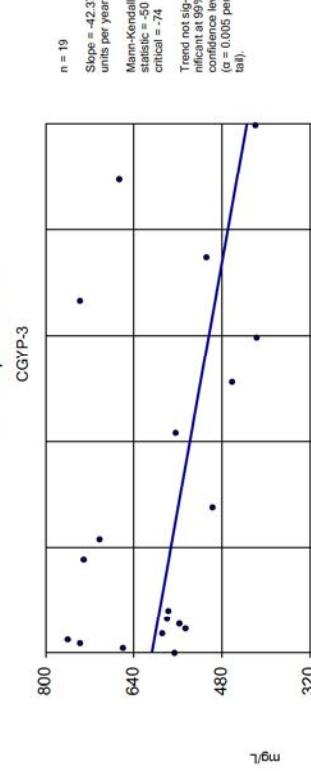
Sen's Slope Estimator CGYP-2



Constituent: Calcium Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

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CGYP Client: Santee Cooper Data: CGYP

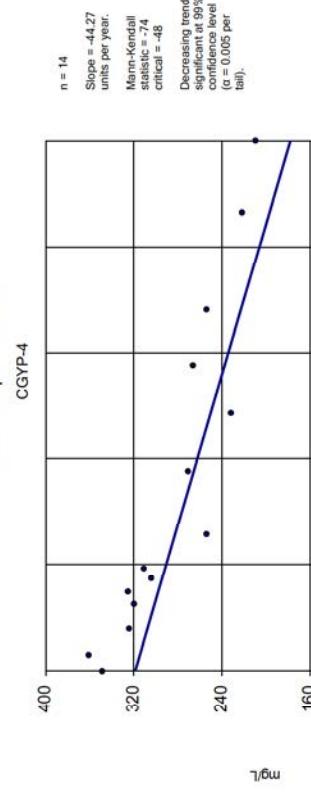
Sen's Slope Estimator CGYP-3



Constituent: Calcium Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

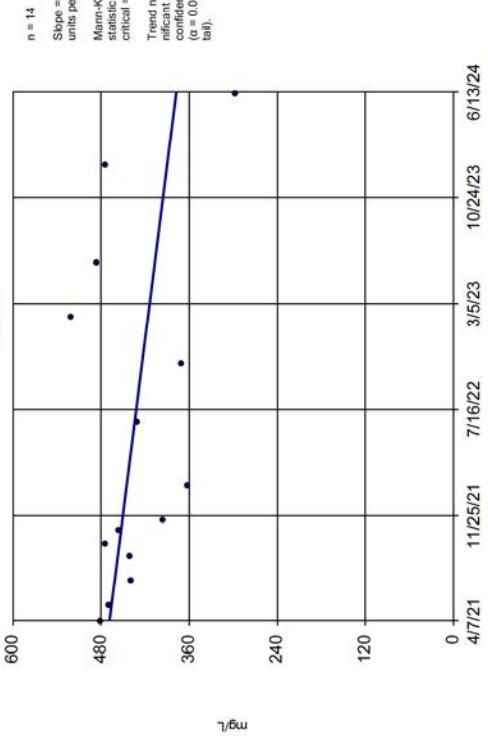
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4

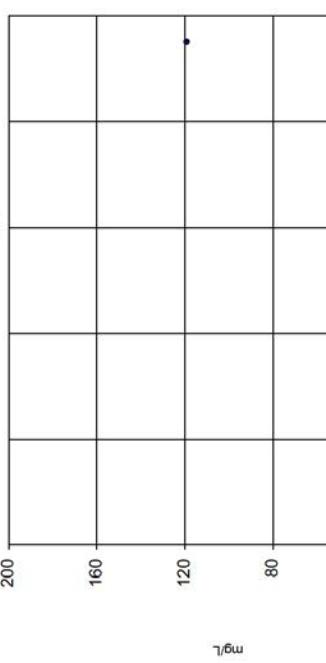


Constituent: Calcium Analysis Run 10/30/2024 12:38 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

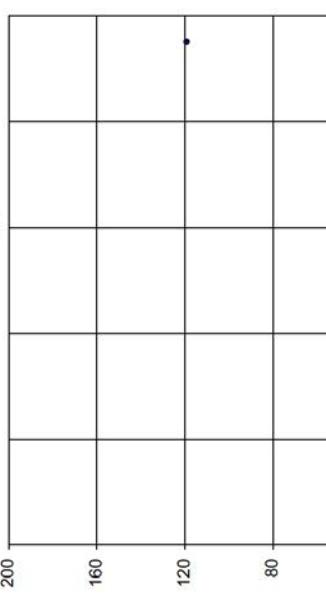
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator
CGYP-6

Constituent: Calcium
Analysis Run 10/30/2024 12:38 PM
View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator
PM-1 (ng)

Constituent: Calcium
Analysis Run 10/30/2024 12:38 PM
View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

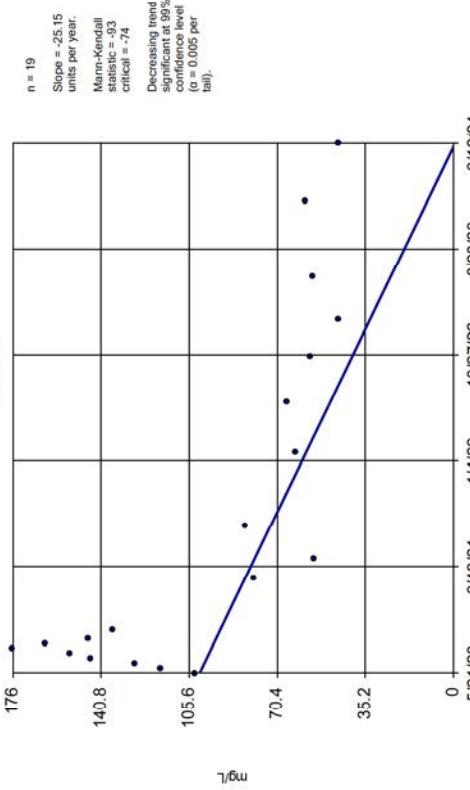
Sen's Slope Estimator
PM-1 (ng)

Sen's Slope Estimator CGYP-1



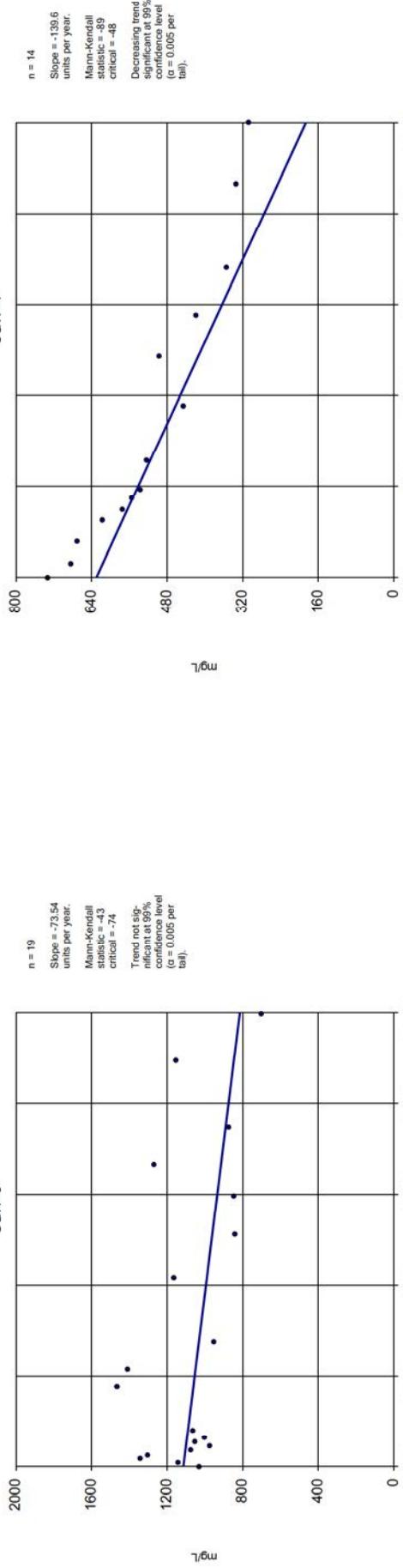
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-2



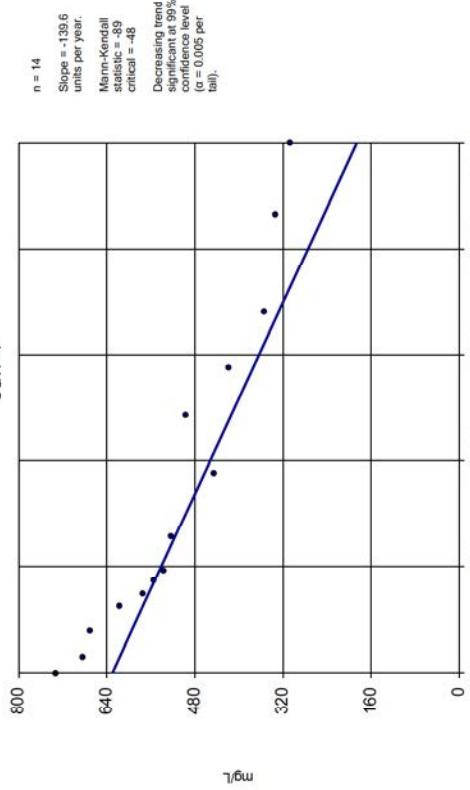
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-3



Constituent: Chloride Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

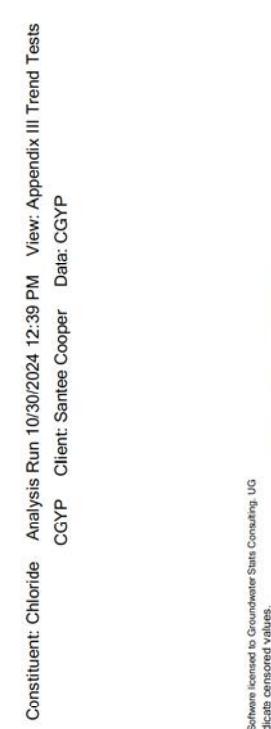
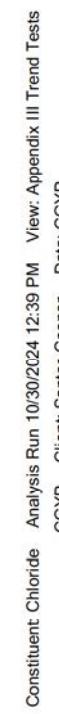
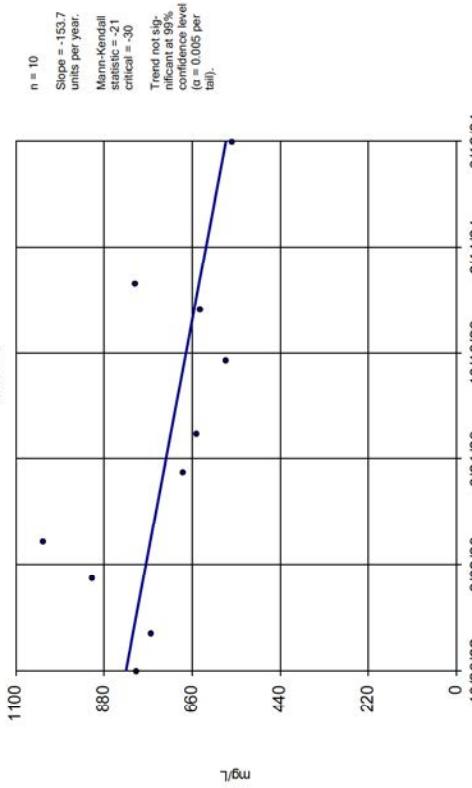
Sen's Slope Estimator CGYP-4

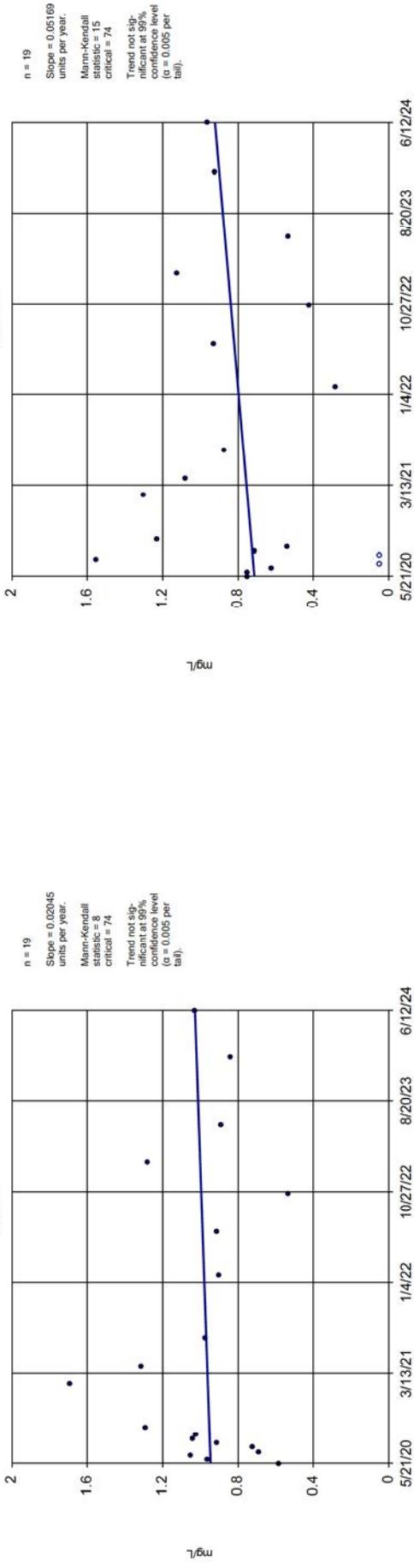


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CGYP Client: Santee Cooper Data: CGYP

Constituent: Chloride Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

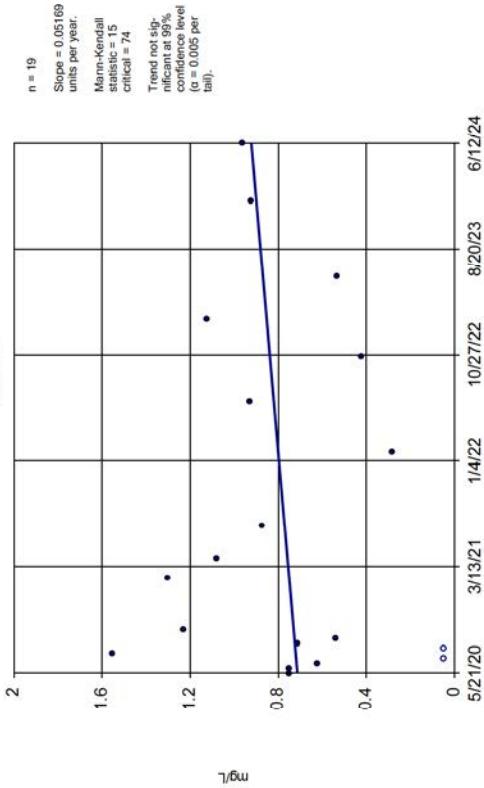
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CGYP Client: Santee Cooper Data: CGYP



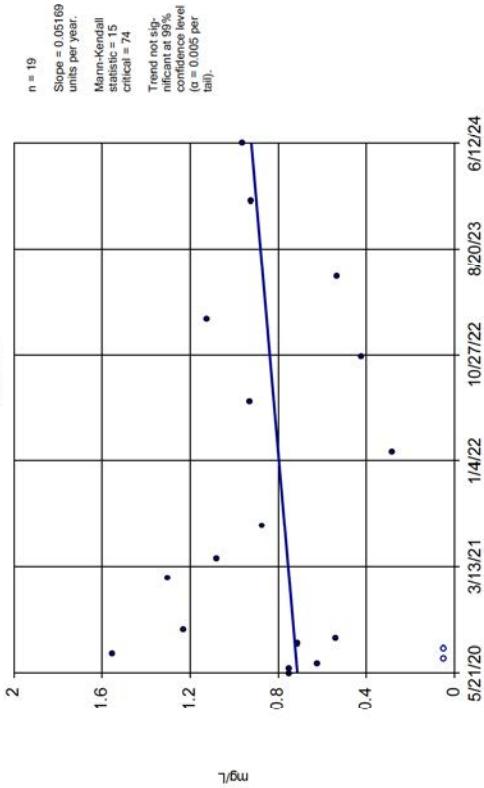
Sen's Slope Estimator
CGYP-1

Constituent: Fluoride
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:39 PM
View: Appendix III Trend Tests
Data: CGYP

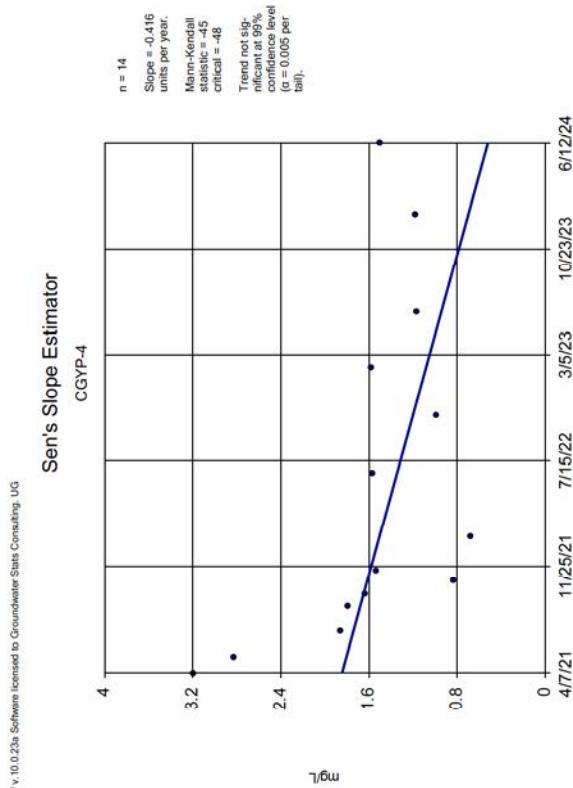
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CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:39 PM
View: Appendix III Trend Tests
Data: CGYP

Sen's Slope Estimator
CGYP-2

Constituent: Fluoride
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:39 PM
View: Appendix III Trend Tests
Data: CGYP

Sen's Slope Estimator
CGYP-3

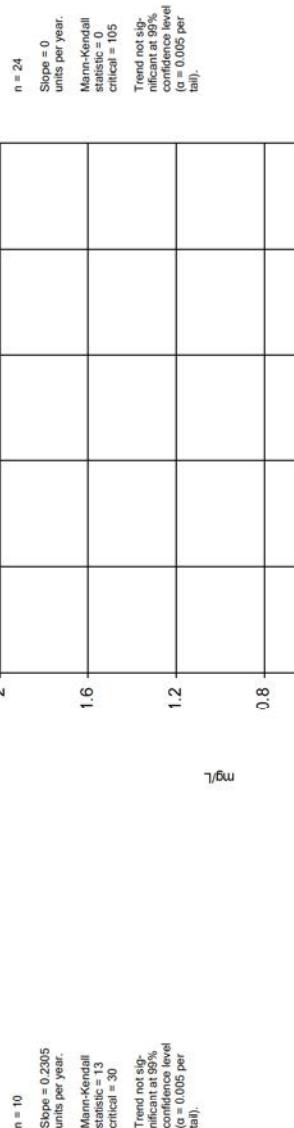
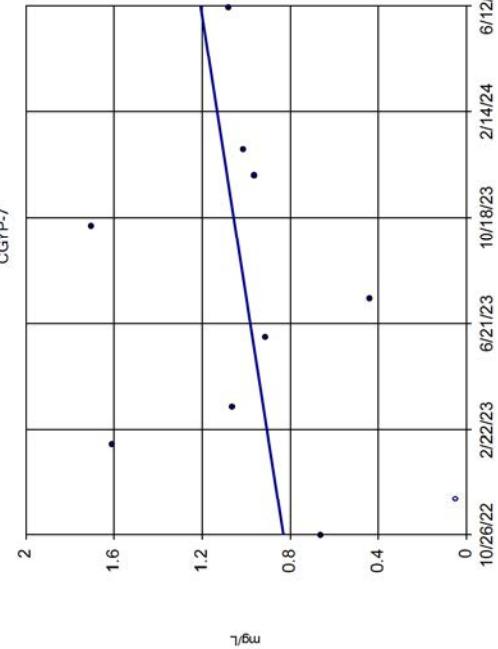
Constituent: Fluoride
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:39 PM
View: Appendix III Trend Tests
Data: CGYP



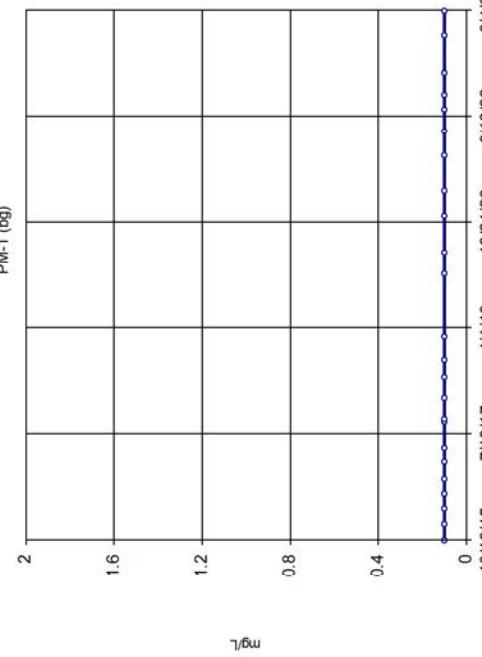
Constituent: Fluoride
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:39 PM
View: Appendix III Trend Tests
Data: CGYP

Constituent: Fluoride
CGYP Client: Santee Cooper
Analysis Run 10/30/2024 12:39 PM
View: Appendix III Trend Tests
Data: CGYP

Sen's Slope Estimator

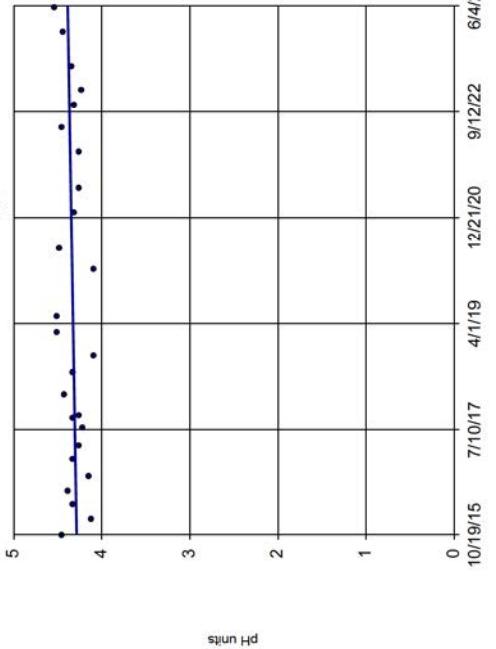


Sen's Slope Estimator



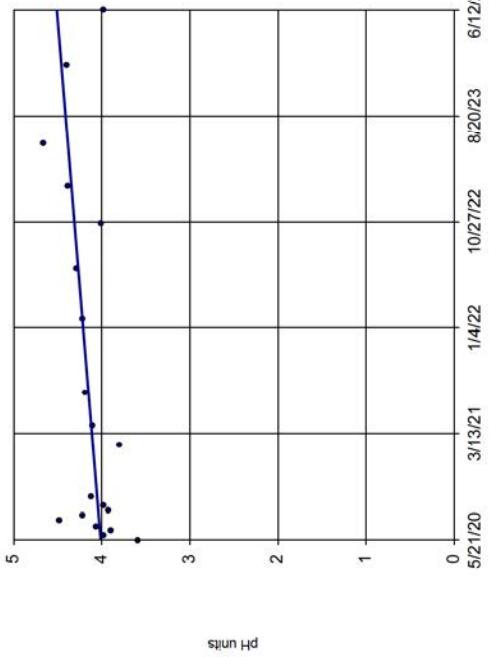
n = 24
Slope = 0 units per year.
Mann-Kendall statistic = 0 critical = 105
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Sen's Slope Estimator



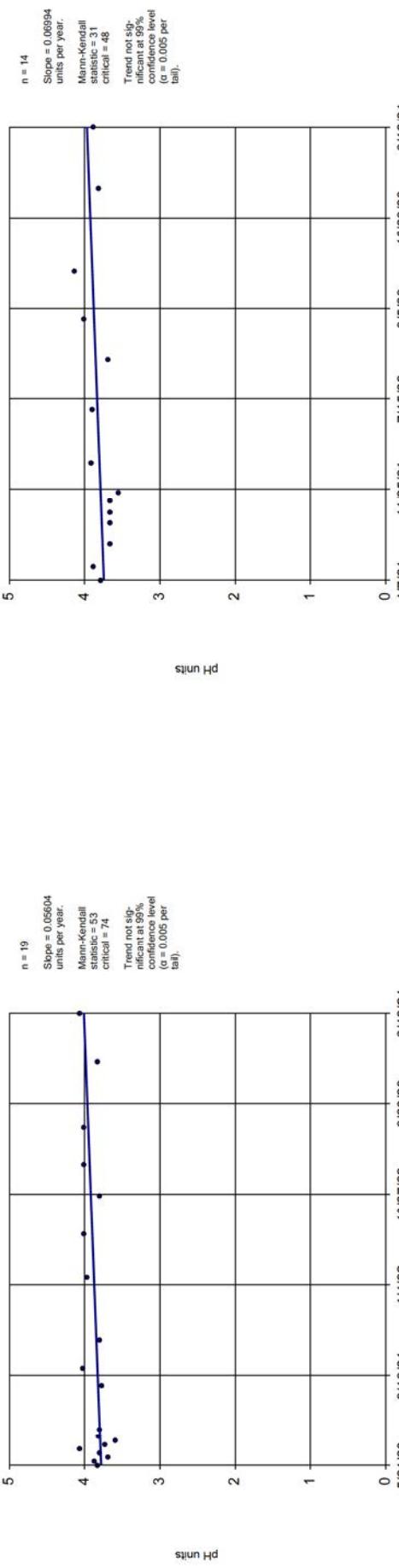
n = 26
Slope = 0.01189 units per year.
Mann-Kendall statistic = 44 critical = 118
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Sen's Slope Estimator



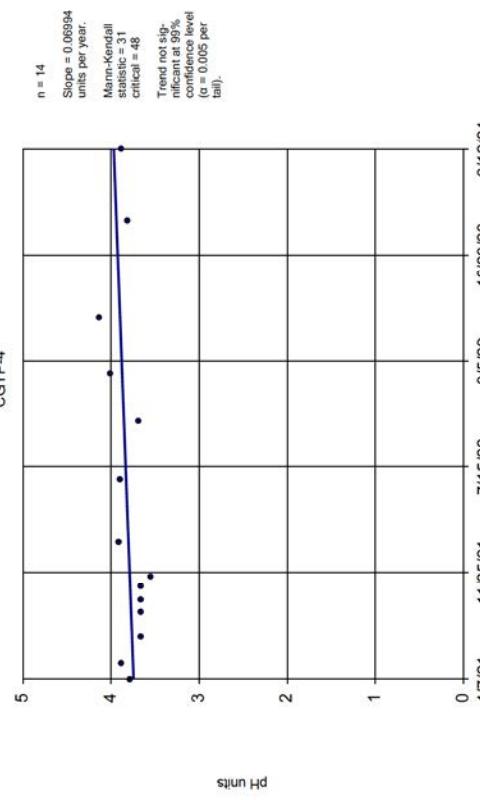
n = 19
Slope = 0.123 units per year.
Mann-Kendall statistic = 68 critical = 74
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Sen's Slope Estimator CGYP-2



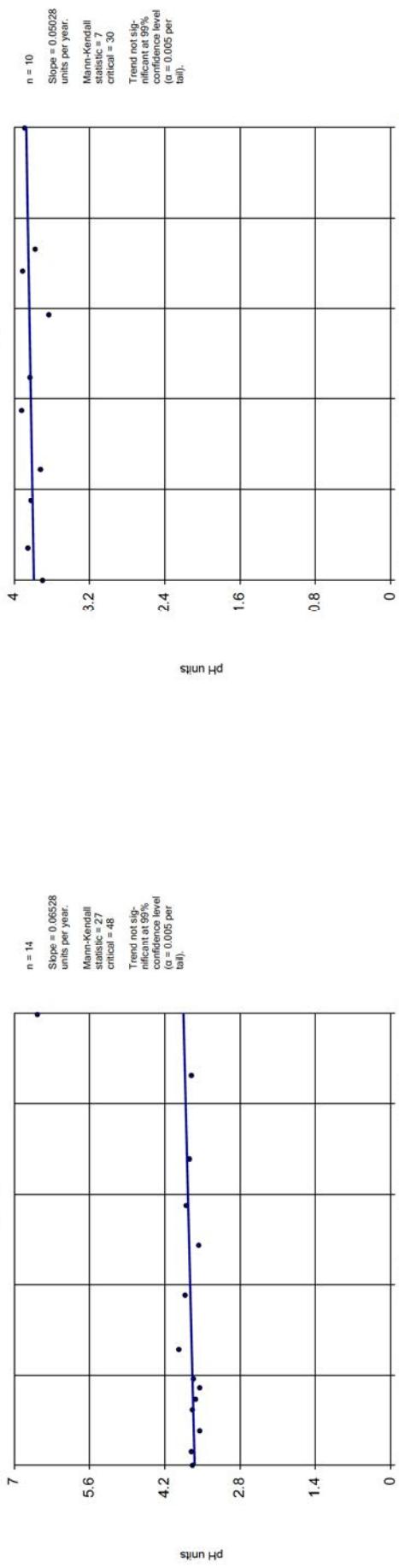
Constituent: pH, Field Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4

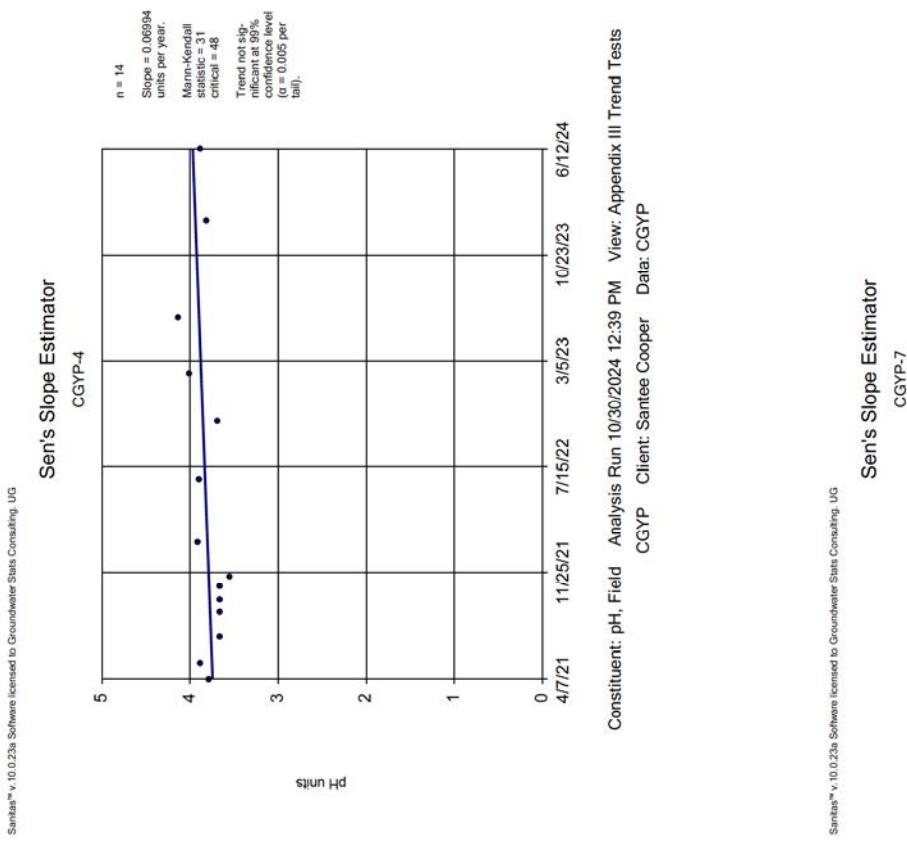


Constituent: pH, Field Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-6



Constituent: pH, Field Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

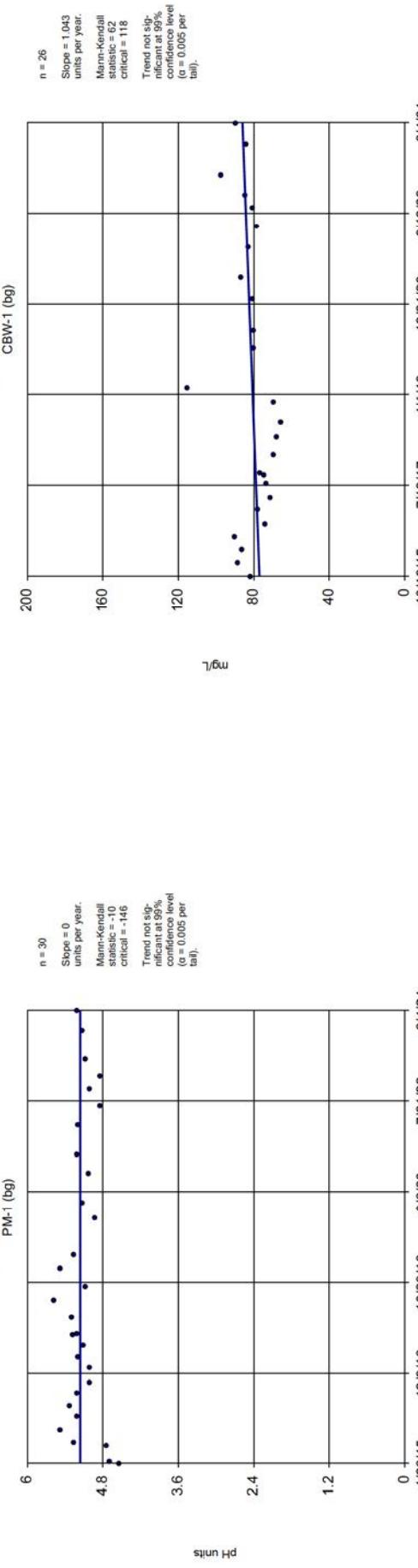


Constituent: pH, Field Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: pH, Field Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

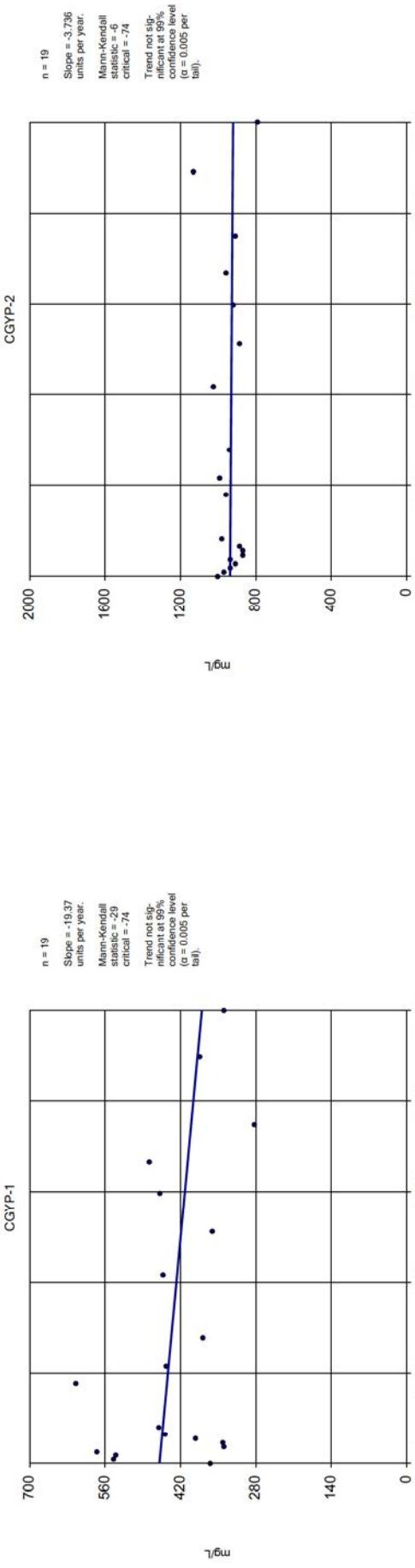
Constituent: pH, Field Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



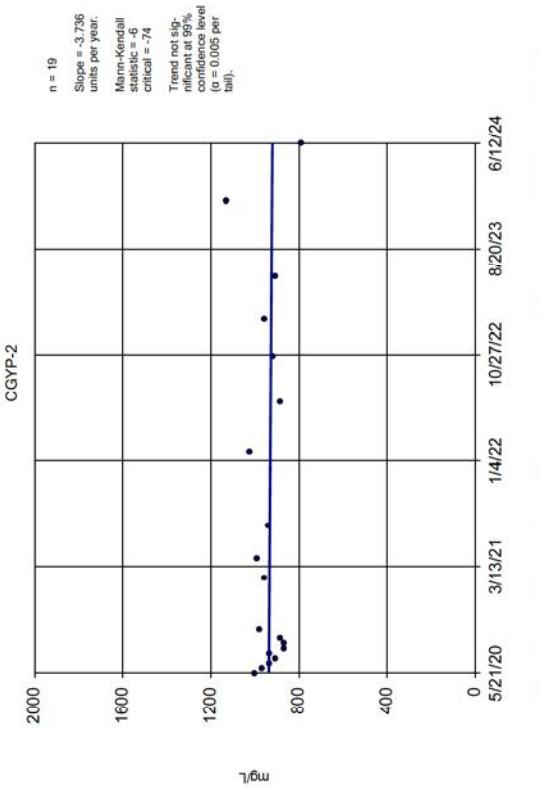
Constituent: pH, Field CGYP Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests Client: Santee Cooper Data: CGYP

Sen's Slope Estimator



Constituent: Sulfate CGYP Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests Client: Santee Cooper Data: CGYP

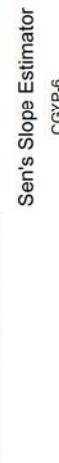
Sen's Slope Estimator



Constituent: Sulfate CGYP Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests Client: Santee Cooper Data: CGYP



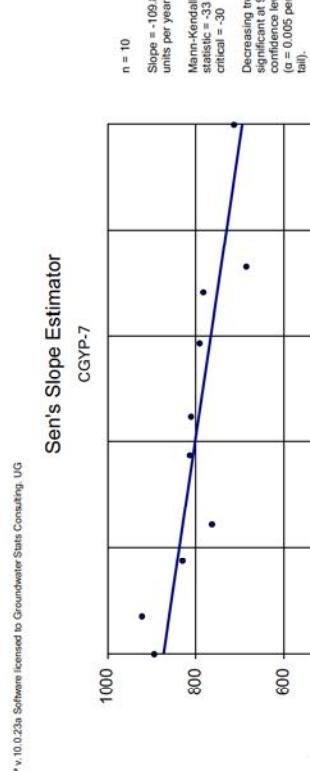
Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

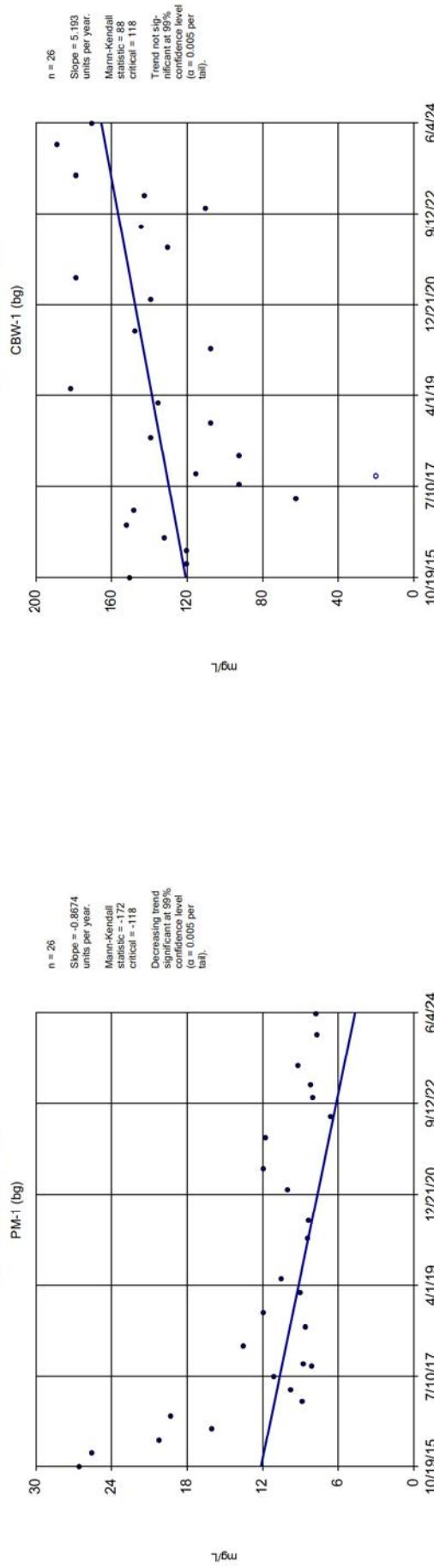


Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator

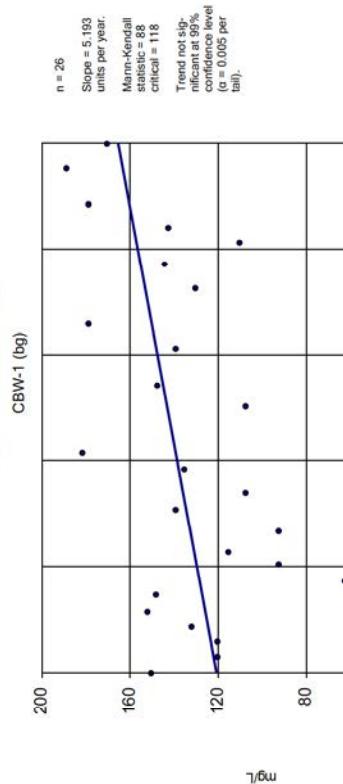


Constituent: Sulfate Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

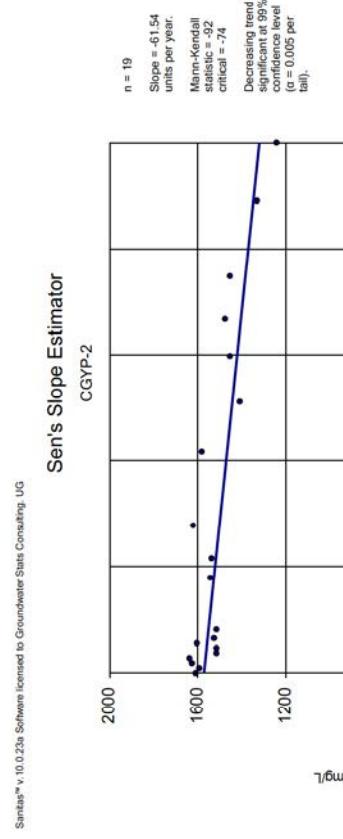
Sen's Slope Estimator



Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

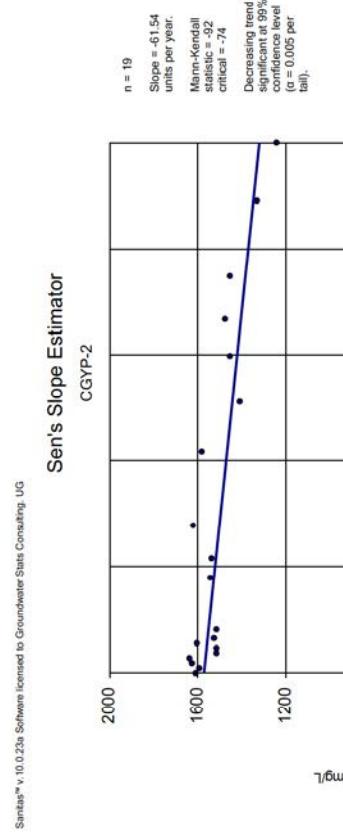
Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP



Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

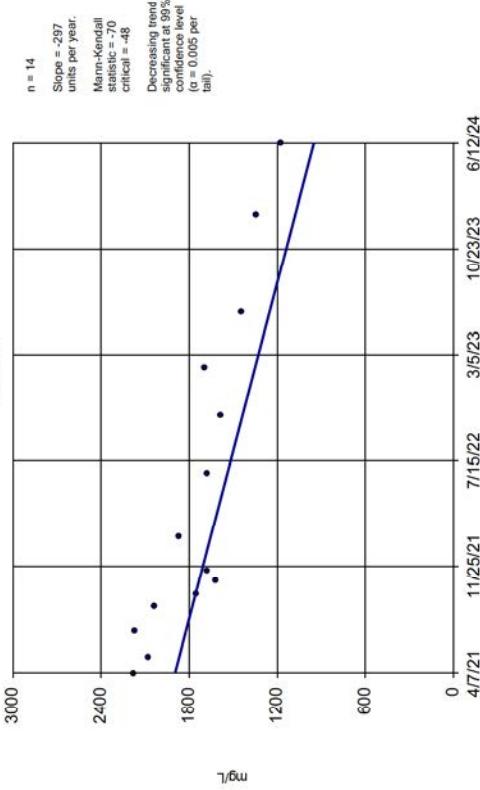
Constituent: Total Dissolved Solids Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-3



Constituent: Total Dissolved Solids
 Analysis Run 10/30/2024 12:39 PM
 View: Appendix III Trend Tests
 CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4



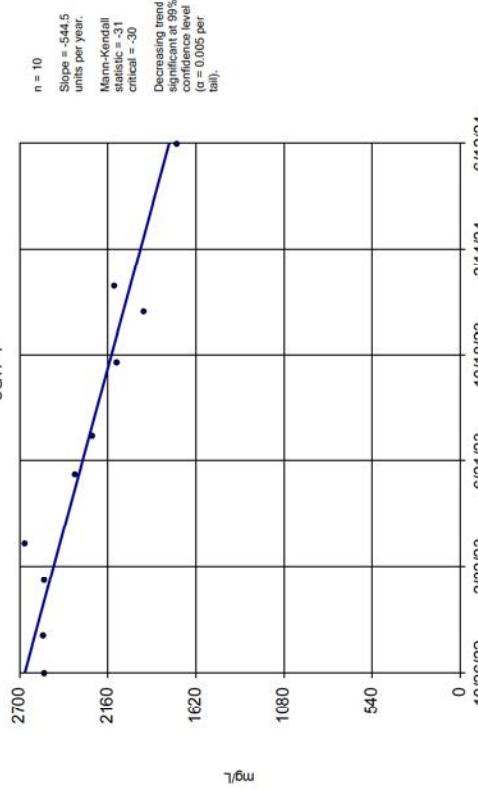
Constituent: Total Dissolved Solids
 Analysis Run 10/30/2024 12:39 PM
 View: Appendix III Trend Tests
 CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-6



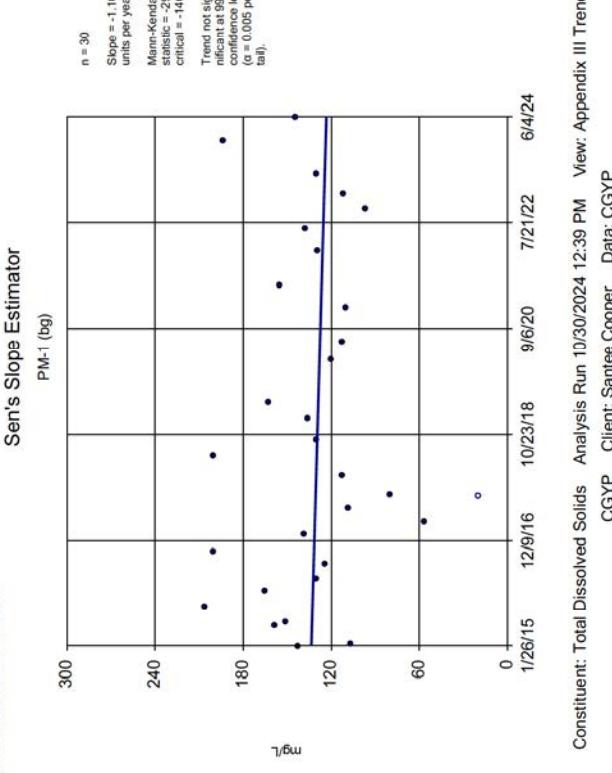
Constituent: Total Dissolved Solids
 Analysis Run 10/30/2024 12:39 PM
 View: Appendix III Trend Tests
 CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-7



Constituent: Total Dissolved Solids
 Analysis Run 10/30/2024 12:39 PM
 View: Appendix III Trend Tests
 CGYP Client: Santee Cooper Data: CGYP

Constituent: Total Dissolved Solids
 Analysis Run 10/30/2024 12:39 PM
 View: Appendix III Trend Tests
 CGYP Client: Santee Cooper Data: CGYP



Constituent: Total Dissolved Solids CGYP Analysis Run 10/30/2024 12:39 PM View: Appendix III Trend Tests Client: Santee Cooper Data: CGYP

FIGURE G.

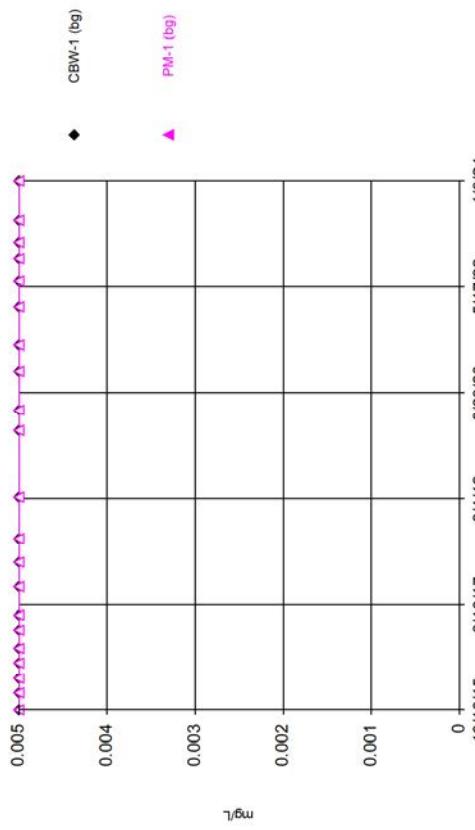
Upper Tolerance Limits

CGYP Client: Santee Cooper Data: CGYP Printed 10/30/2024, 12:58 PM

<u>Constituent</u>	<u>Upper Lim.</u>	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.005	42	n/a	n/a	100	n/a	n/a	0.116	NP Inter(nds)
Arsenic (mg/L)	0.016	46	n/a	n/a	86.96	n/a	n/a	0.09447	NP Inter(nds)
Barium (mg/L)	0.103	46	n/a	n/a	0	n/a	n/a	0.09447	NP Inter(normality)
Beryllium (mg/L)	0.00063	45	n/a	n/a	97.78	n/a	n/a	0.09944	NP Inter(nds)
Cadmium (mg/L)	0.0005	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(nds)
Chromium (mg/L)	0.014	43	n/a	n/a	97.67	n/a	n/a	0.1102	NP Inter(nds)
Cobalt (mg/L)	0.0034	46	n/a	n/a	4.348	n/a	n/a	0.09447	NP Inter(normality)
Combined Radium 226 & 228 (pcil/l)	8.823	44	1.331	0.3501	29.55	Kaplan-Meier	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.3	46	n/a	n/a	52.17	n/a	n/a	0.09447	NP Inter(nds)
Lead (mg/L)	0.011	45	n/a	n/a	51.11	n/a	n/a	0.09944	NP Inter(nds)
Lithium (mg/L)	0.00544	46	n/a	n/a	91.3	n/a	n/a	0.09447	NP Inter(nds)
Mercury (mg/L)	0.0002	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(nds)
Molybdenum (mg/L)	0.005	42	n/a	n/a	100	n/a	n/a	0.116	NP Inter(nds)
Selenium (mg/L)	0.01	45	n/a	n/a	100	n/a	n/a	0.09944	NP Inter(nds)
Thallium (mg/L)	0.001	42	n/a	n/a	100	n/a	n/a	0.116	NP Inter(nds)

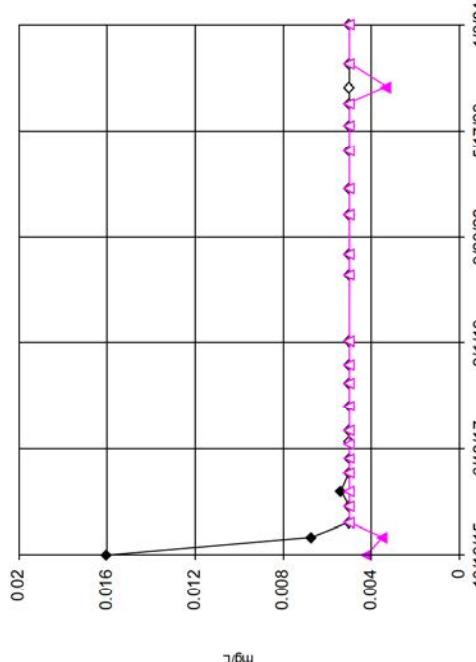
Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Time Series



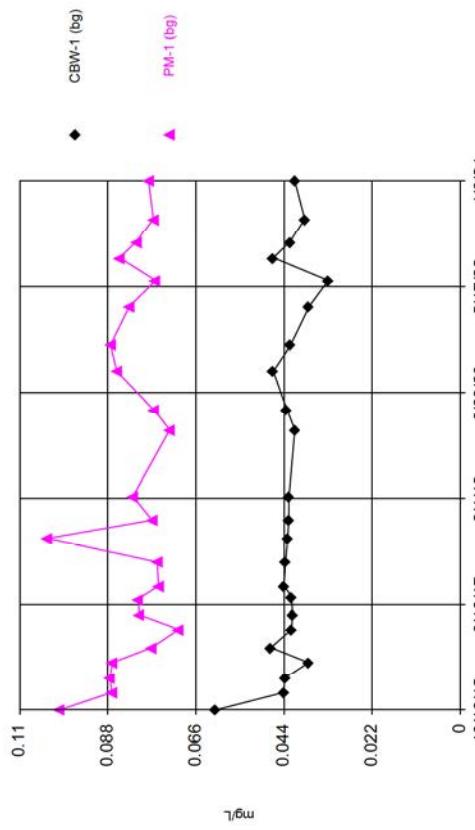
Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Time Series



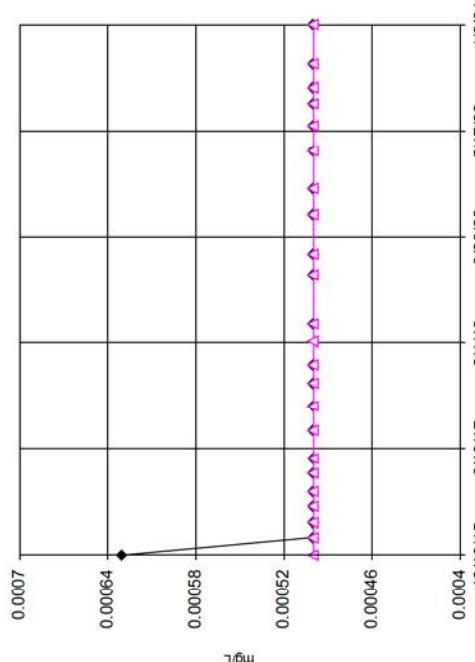
Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Time Series



Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Time Series



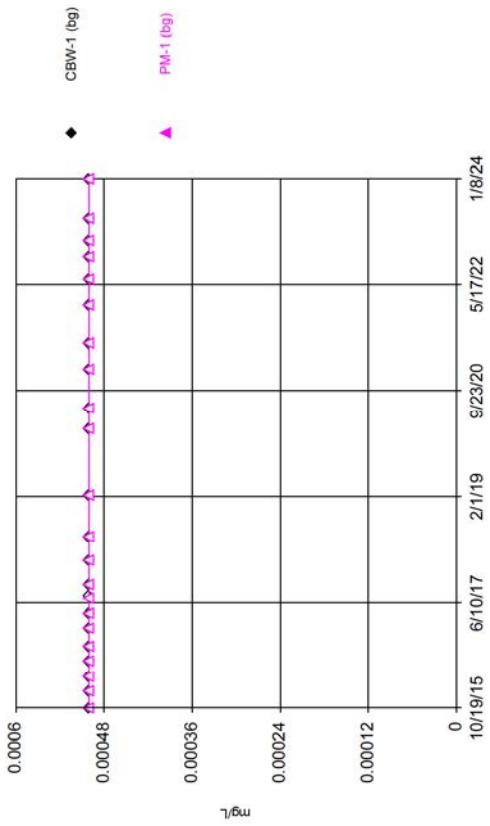
Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Constituent: Arsenic CGYP Client: Santee Cooper Data: CGYP Analysis Run 10/30/2024 12:56 PM View: UTls

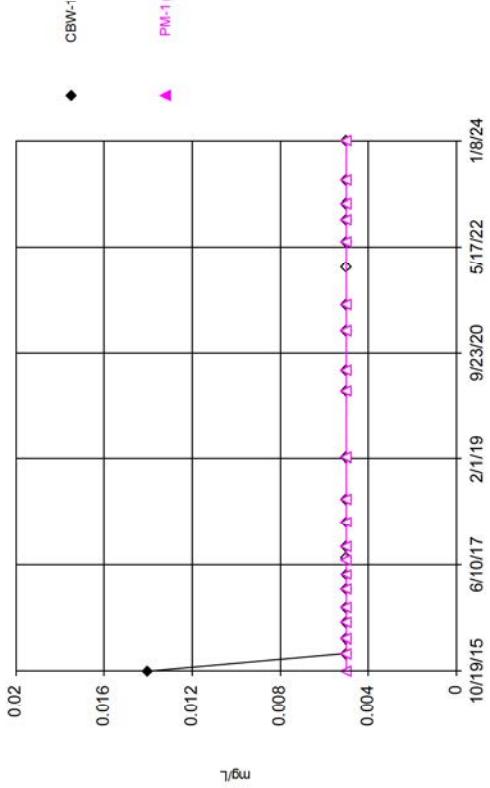
Constituent: Beryllium CGYP Client: Santee Cooper Data: CGYP Analysis Run 10/30/2024 12:56 PM View: UTls

Constituent: CBW-1 (bg) PM-1 (bg)

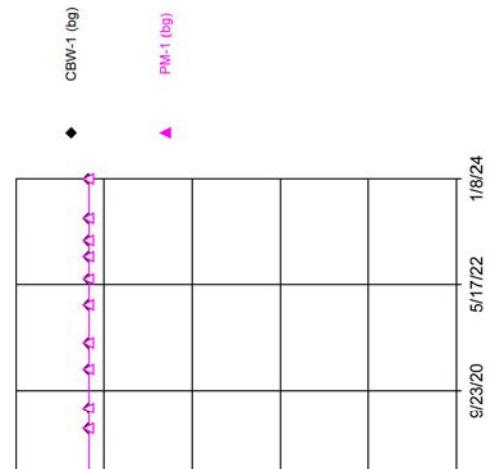
Time Series



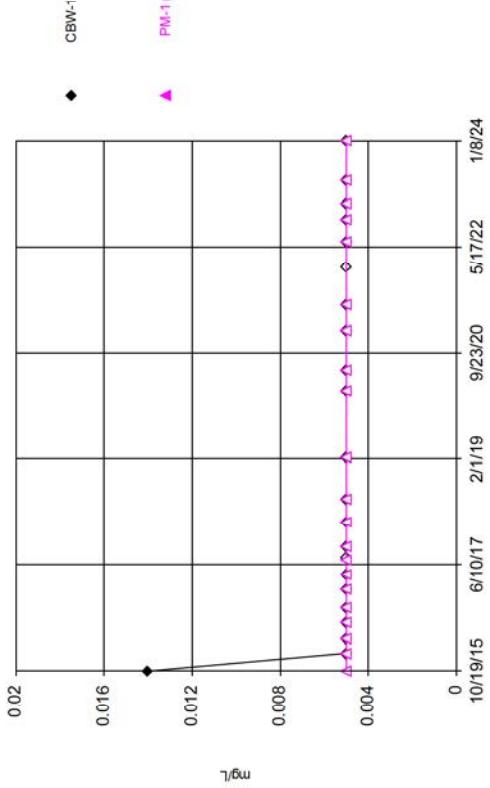
Time Series



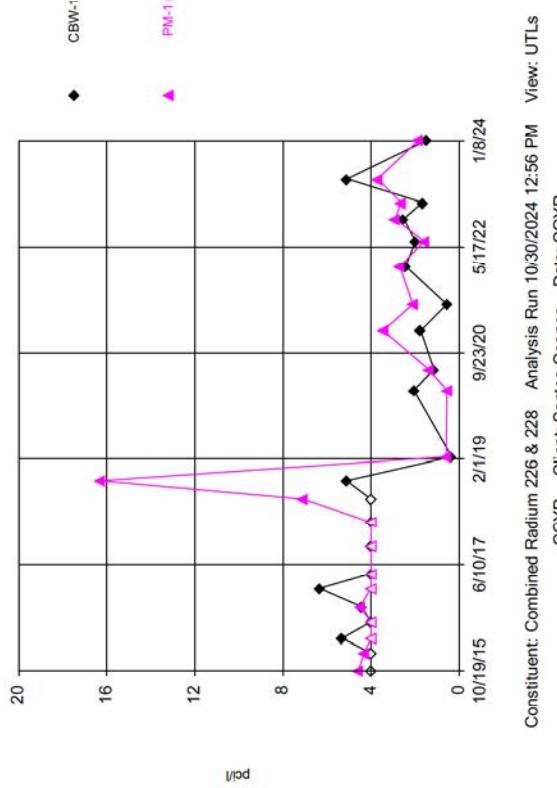
Time Series



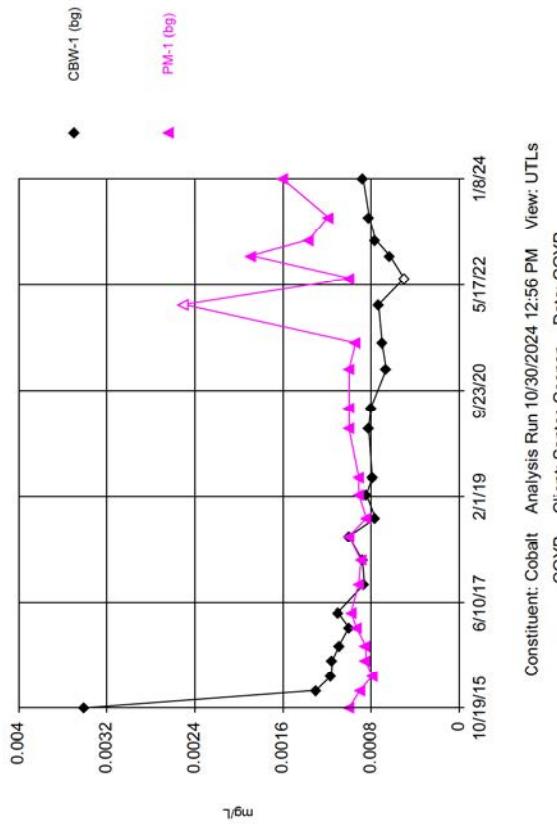
Time Series



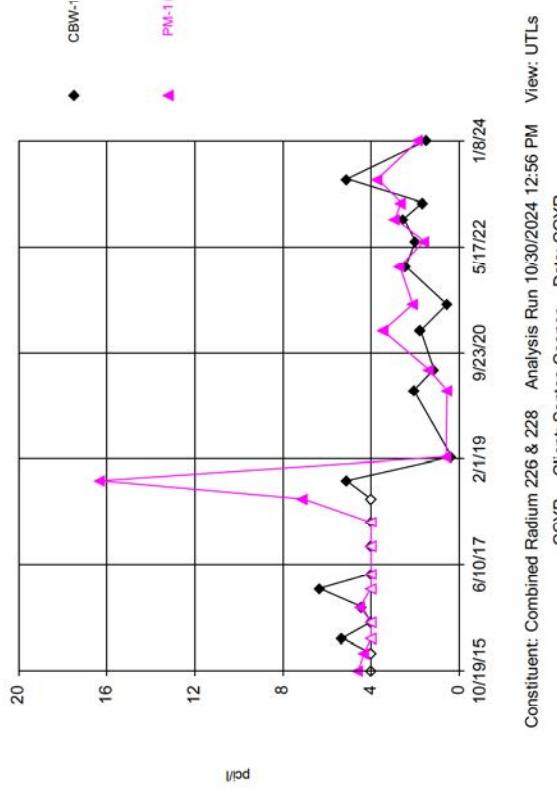
Time Series



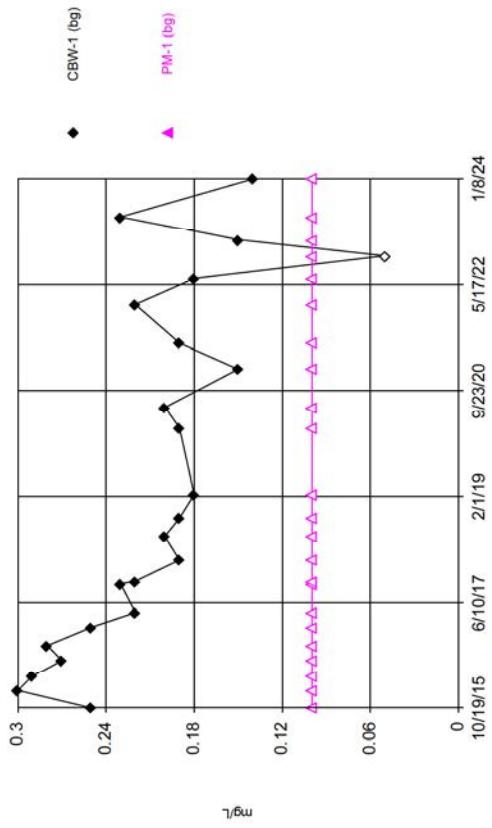
Time Series



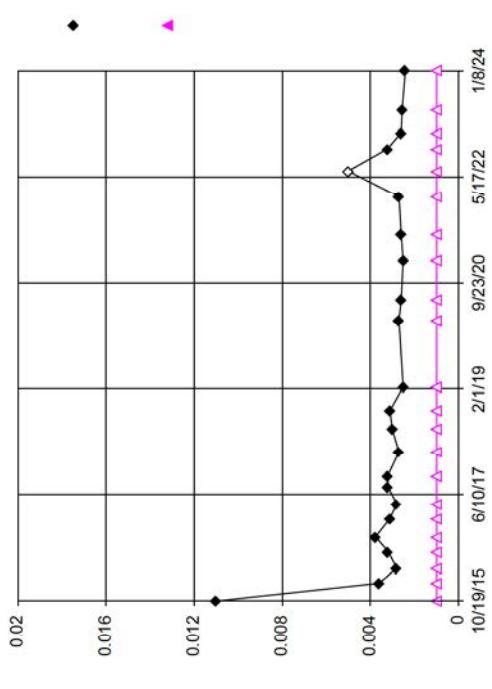
Time Series



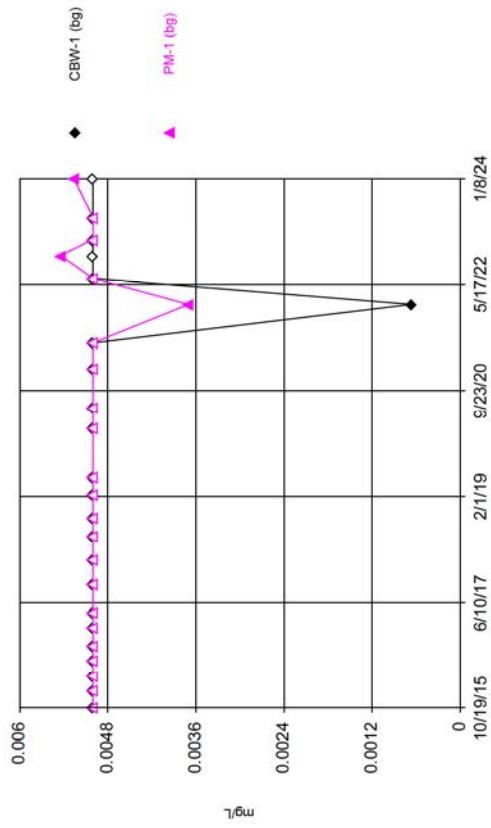
Time Series



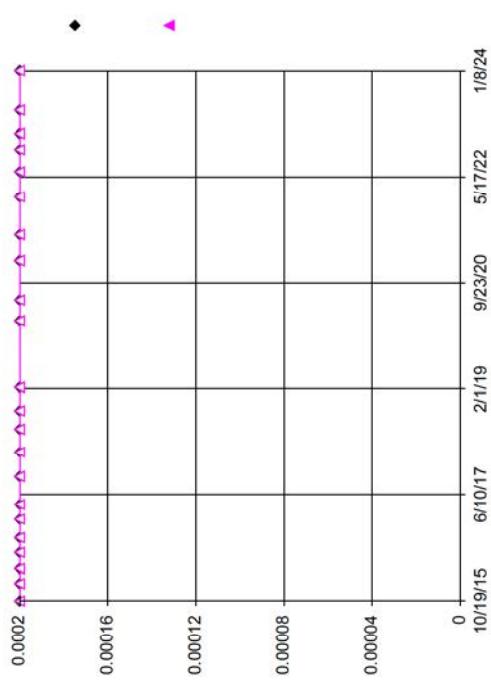
Time Series



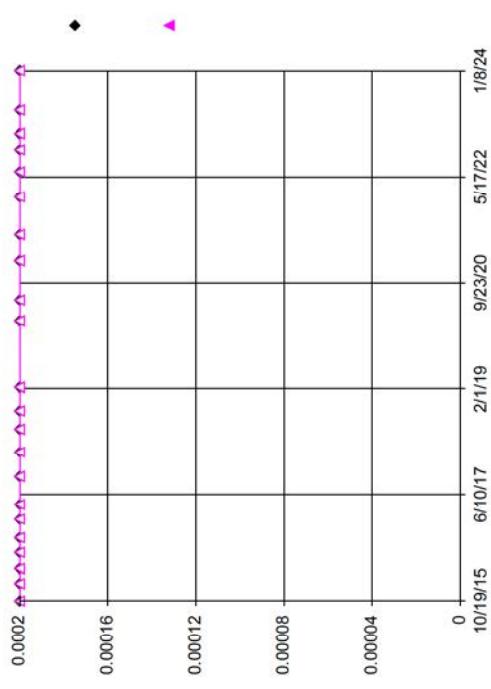
Time Series



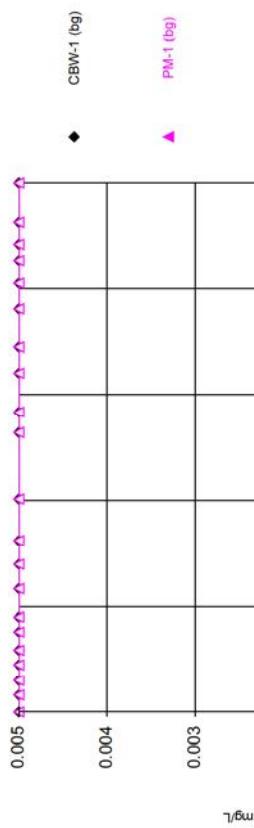
Time Series



Time Series

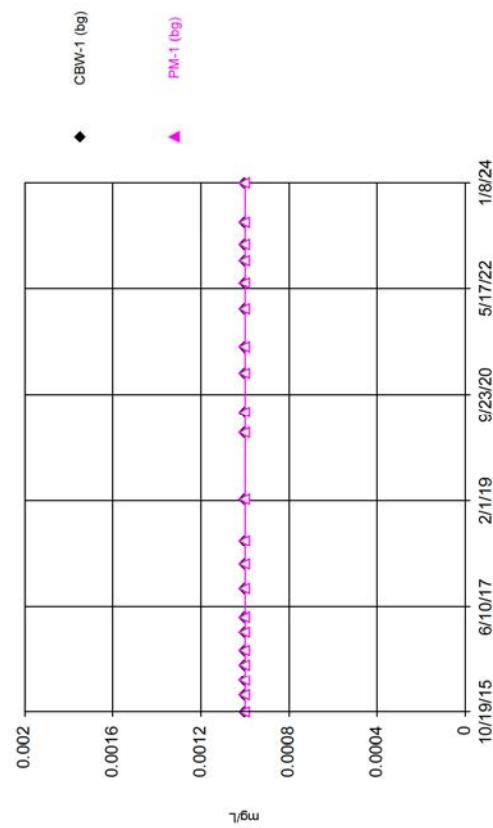


Time Series



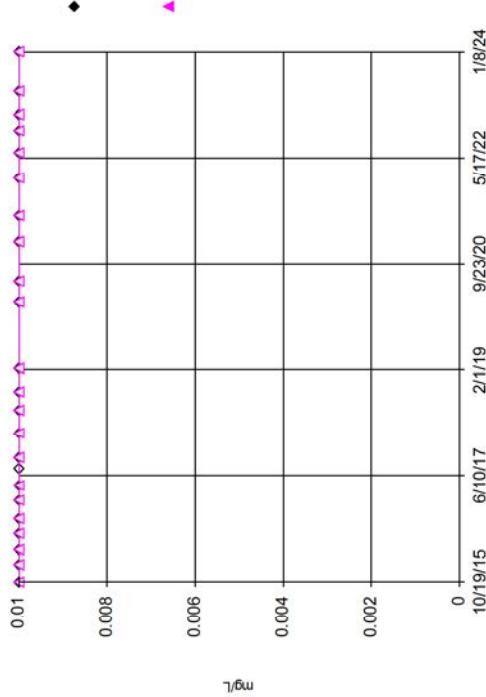
Constituent: Molybdenum Analysis Run 10/30/2024 12:56 PM View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Time Series



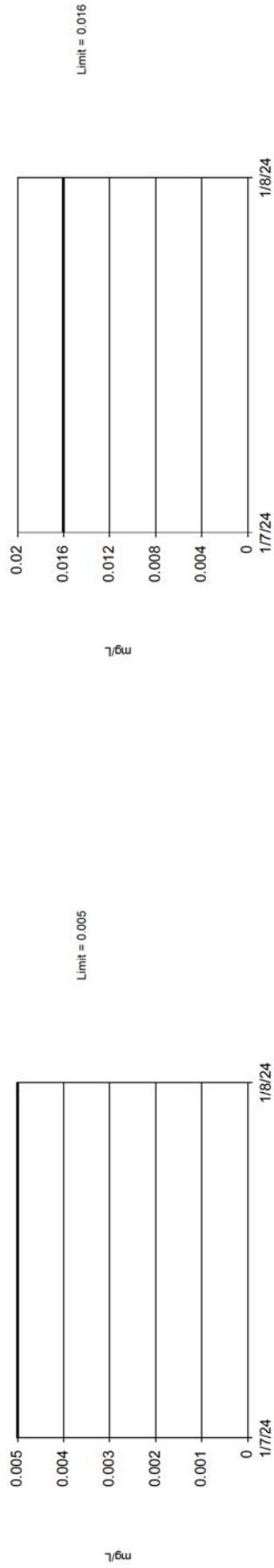
Constituent: Thallium Analysis Run 10/30/2024 12:56 PM View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Time Series



Constituent: Cadmium Analysis Run 10/30/2024 12:56 PM View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Antimony CGYP Client: Santee Cooper Data: CGYP

Analysis Run 10/30/2024 12:54 PM View: UTls

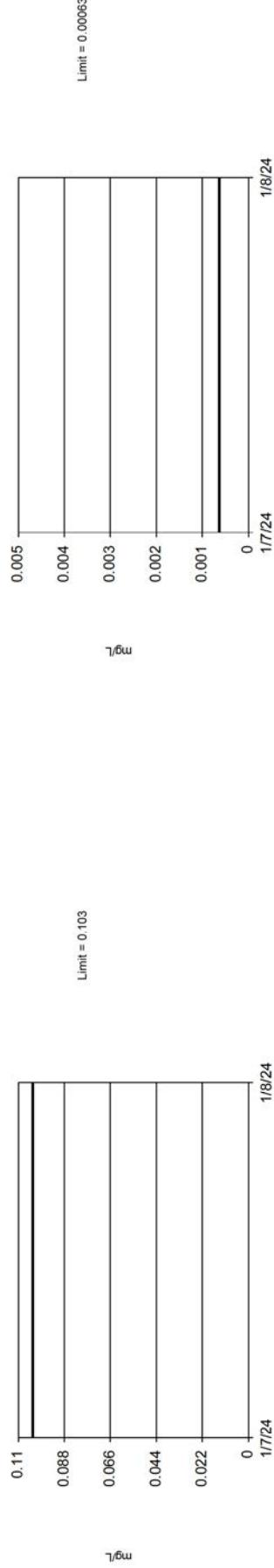
Constituent: Arsenic CGYP Client: Santee Cooper Data: CGYP

Analysis Run 10/30/2024 12:54 PM View: UTls

Constituent: Beryllium CGYP Client: Santee Cooper Data: CGYP

Analysis Run 10/30/2024 12:54 PM View: UTls

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 45 background values. 97.78% NDs, 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Constituent: Barium CGYP Client: Santee Cooper Data: CGYP

Analysis Run 10/30/2024 12:54 PM View: UTls

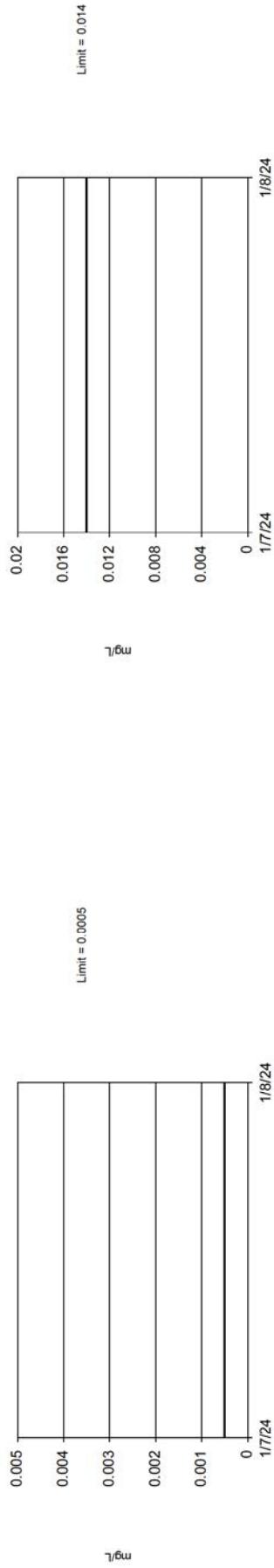
Constituent: Arsenic CGYP Client: Santee Cooper Data: CGYP

Analysis Run 10/30/2024 12:54 PM View: UTls

Constituent: Beryllium CGYP Client: Santee Cooper Data: CGYP

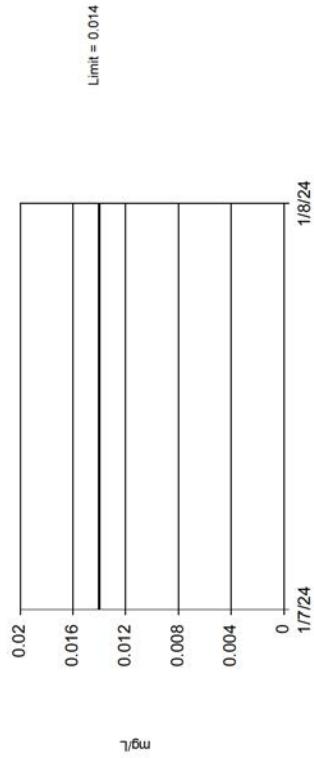
Analysis Run 10/30/2024 12:54 PM View: UTls

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Tolerance Limit
Interwell Non-parametric

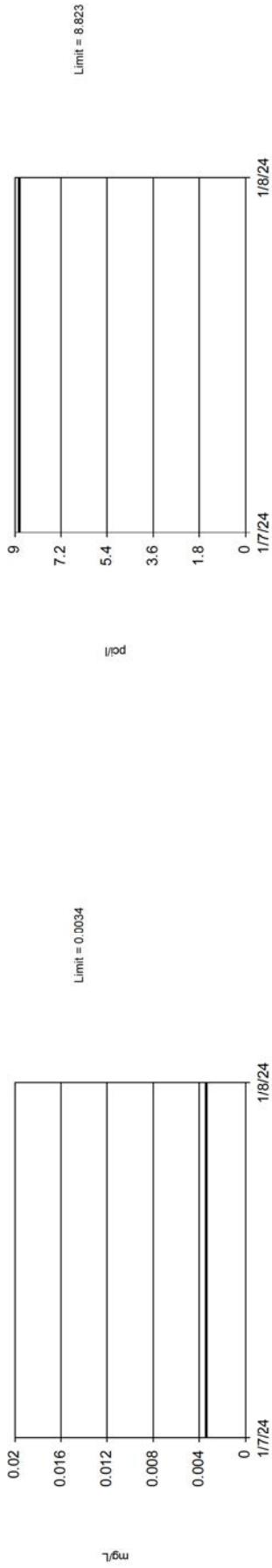


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. 90.04% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1102.

Constituent: Cadmium
Analysis Run 10/30/2024 12:54 PM
View: UTls
CGYP Client: Santee Cooper Data: CGYP

Constituent: Chromium
Analysis Run 10/30/2024 12:54 PM
View: UTls
CGYP Client: Santee Cooper Data: CGYP

Tolerance Limit
Interwell Non-parametric

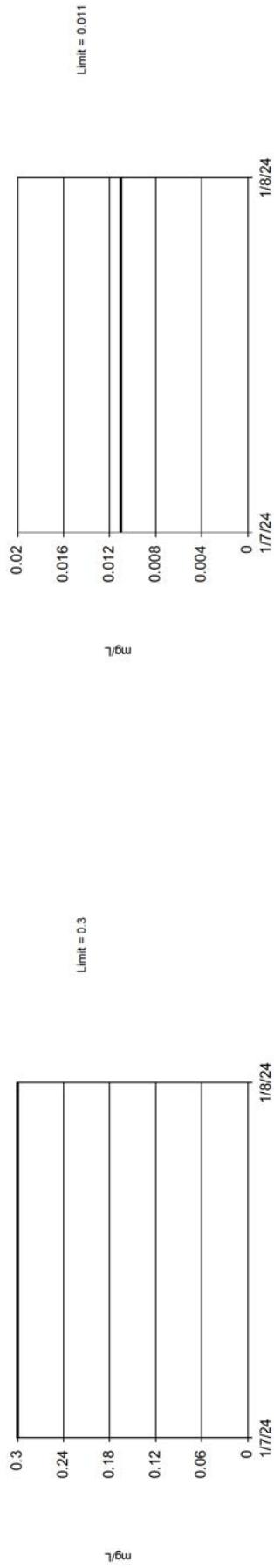


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. 4.38% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Constituent: Cobalt
Analysis Run 10/30/2024 12:54 PM
View: UTls
CGYP Client: Santee Cooper Data: CGYP

Constituent: Radium 226 & 228
Analysis Run 10/30/2024 12:54 PM
View: UTls
CGYP Client: Santee Cooper Data: CGYP

Tolerance Limit
Interwell Non-parametric



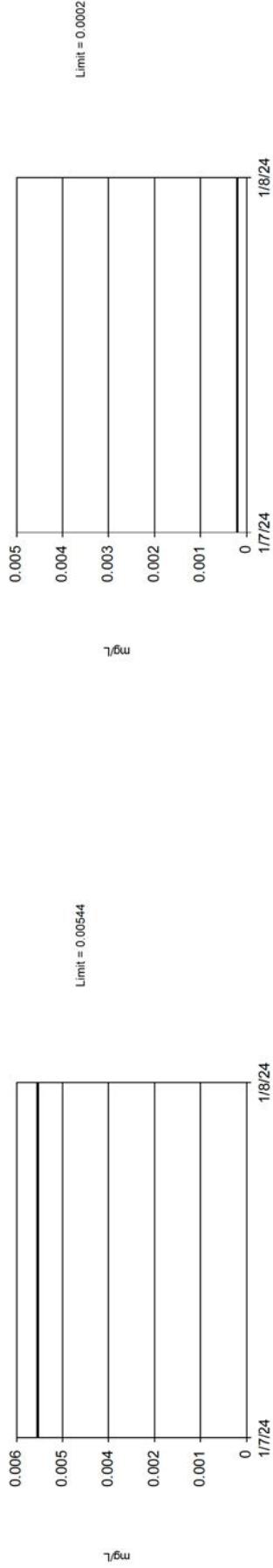
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 46 background values. 52.17% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Constituent: Fluoride
Analysis Run 10/30/2024 12:54 PM
View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lead
Analysis Run 10/30/2024 12:54 PM
View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lithium
Analysis Run 10/30/2024 12:54 PM
View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 46 background values. 91.3% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

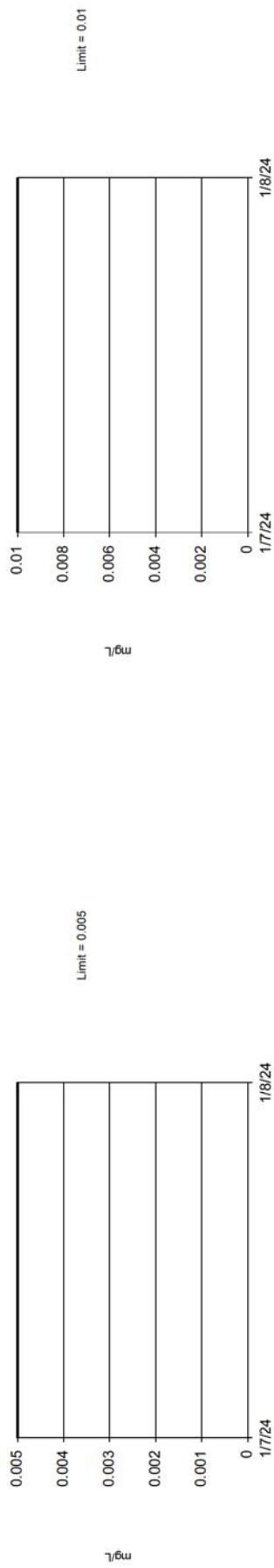
Constituent: Mercury
Analysis Run 10/30/2024 12:55 PM
View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Constituent: Mercury
Analysis Run 10/30/2024 12:55 PM
View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Constituent: Mercury
Analysis Run 10/30/2024 12:55 PM
View: UTLS
CGYP Client: Santee Cooper Data: CGYP

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

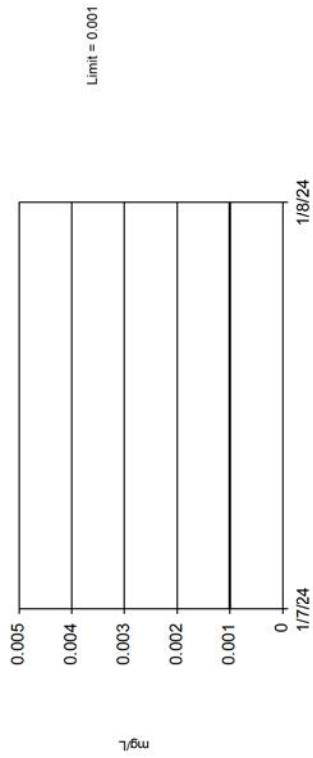
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Molybdenum Analysis Run 10/30/2024 12:55 PM View: UTls
CGYP Client: Santee Cooper Data: CGYP

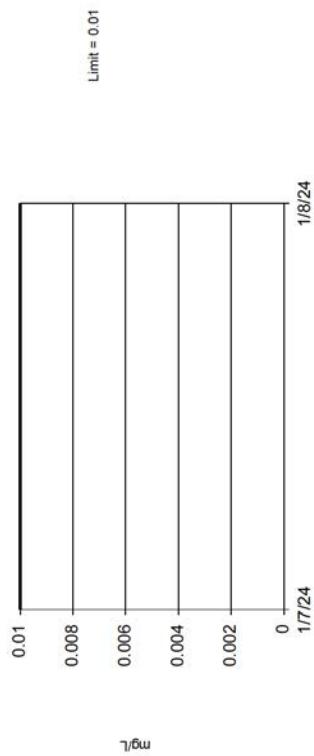
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Thallium Analysis Run 10/30/2024 12:55 PM View: UTls
CGYP Client: Santee Cooper Data: CGYP

Tolerance Limit
Interwell Non-parametric



Constituent: Selenium Analysis Run 10/30/2024 12:55 PM View: UTls
CGYP Client: Santee Cooper Data: CGYP

FIGURE H.

CGYP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.005	0.006
Arsenic, Total (mg/L)	0.01		0.016	0.016
Barium, Total (mg/L)	2		0.103	2
Beryllium, Total (mg/L)	0.004		0.00063	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.014	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		8.82	8.82
Fluoride, Total (mg/L)	4		0.3	4
Lead, Total (mg/L)	n/a	0.015	0.011	0.015
Lithium, Total (mg/L)	n/a	0.04	0.0054	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.005	0.1
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

*GWPS = Groundwater Protection Standard

FIGURE I.

Appendix IV Confidence Interval Summary Table - Significant Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 1:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CGYP-1	0.011	0.0053	0.004	Yes 18	0.008088	0.002949	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-3	0.03725	0.02473	0.004	Yes 18	0.03099	0.01035	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01701	0.01332	0.004	Yes 14	0.01501	0.002914	0	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02662	0.01923	0.004	Yes 14	0.02213	0.007298	7.143	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01091	0.006223	0.004	Yes 10	0.008567	0.002627	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-1	0.04866	0.03454	0.006	Yes 18	0.0416	0.01167	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.0183	0.006	Yes 18	0.02294	0.008577	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1292	0.08321	0.006	Yes 18	0.1062	0.03798	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04762	0.03077	0.006	Yes 14	0.03919	0.01189	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.165	0.1214	0.006	Yes 14	0.1387	0.04324	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.0889	0.04292	0.006	Yes 10	0.06591	0.02577	0	None	No	0.01	Param.
Lead (mg/L)	CGYP-2	0.02385	0.01864	0.015	Yes 18	0.02078	0.005251	5.556	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.0298	0.019	0.015	Yes 18	0.02847	0.01701	0	None	No	0.01	NP (normality)
Lead (mg/L)	CGYP-7	0.04548	0.02916	0.015	Yes 10	0.03732	0.009144	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-3	0.09274	0.05713	0.04	Yes 18	0.07493	0.02943	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-4	0.06655	0.05201	0.04	Yes 14	0.05928	0.01026	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1612	0.1018	0.04	Yes 14	0.1315	0.04196	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

		CGYP	Client: Santee Cooper	Data	CGYP	Printed 10/30/2024, 1:02 PM						
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	CGYP-1	0.0056	0.005	0.006	No 18	0.005033	0.0001414	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	CGYP-6	0.0053	0.005	0.006	No 14	0.005021	0.00008018	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	CGYP-7	0.005	0.005	0.006	No 10	0.00508	0.000253	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	CGYP-1	0.02727	0.01211	0.016	No 18	0.02089	0.01314	5.556	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	CGYP-2	0.02041	0.012	0.016	No 18	0.01621	0.00695	11.11	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-3	0.01796	0.0117	0.016	No 18	0.01483	0.005179	5.556	None	No	0.01	Param.
Arsenic (mg/L)	CGYP-4	0.0113	0.005	0.016	No 14	0.008183	0.003073	7.143	None	No	0.01	NP (normality)
Arsenic (mg/L)	CGYP-7	0.02097	0.01057	0.016	No 10	0.01577	0.005827	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-1	0.05696	0.03882	2	No 18	0.04858	0.01584	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	CGYP-2	0.03087	0.01634	2	No 18	0.0236	0.01201	5.556	None	No	0.01	Param.
Barium (mg/L)	CGYP-3	0.04822	0.03426	2	No 18	0.04124	0.01153	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-4	0.03671	0.02653	2	No 14	0.03162	0.007182	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-6	0.5643	0.2346	2	No 14	0.3995	0.2327	0	None	No	0.01	Param.
Barium (mg/L)	CGYP-7	0.02868	0.02086	2	No 10	0.02477	0.00438	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-1	0.011	0.0053	0.004	Yes 18	0.008088	0.002949	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	CGYP-2	0.003937	0.002913	0.004	No 18	0.003425	0.0008469	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-3	0.03725	0.02473	0.004	Yes 18	0.03099	0.01035	0	None	No	0.01	Param.
Beryllium (mg/L)	CGYP-4	0.01701	0.01332	0.004	Yes 14	0.01501	0.002914	0	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-6	0.02662	0.01923	0.004	Yes 14	0.02213	0.007298	7.143	None	x^2	0.01	Param.
Beryllium (mg/L)	CGYP-7	0.01091	0.006223	0.004	Yes 10	0.008567	0.002627	0	None	No	0.01	Param.
Cadmium (mg/L)	CGYP-1	0.0013	0.0005	0.005	No 18	0.0006389	0.0004327	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-2	0.001	0.0005	0.005	No 18	0.0005778	0.0002365	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-3	0.0008	0.0005	0.005	No 18	0.00073	0.0003826	44.44	None	No	0.01	NP (normality)
Cadmium (mg/L)	CGYP-4	0.0008	0.0005	0.005	No 14	0.0005214	0.00008018	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-6	0.0006	0.0005	0.005	No 14	0.0005071	0.00002673	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	CGYP-7	0.003	0.0005	0.005	No 10	0.001155	0.001072	50	None	No	0.011	NP (normality)
Chromium (mg/L)	CGYP-3	0.0073	0.0052	0.1	No 18	0.006122	0.001197	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	CGYP-6	0.0061	0.005	0.1	No 14	0.005079	0.000294	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	CGYP-1	0.04866	0.03454	0.006	Yes 18	0.0416	0.01167	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-2	0.027	0.0183	0.006	Yes 18	0.02294	0.008577	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	CGYP-3	0.1292	0.08321	0.006	Yes 18	0.1062	0.03798	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-4	0.04762	0.03077	0.006	Yes 14	0.03919	0.01189	0	None	No	0.01	Param.
Cobalt (mg/L)	CGYP-6	0.165	0.1214	0.006	Yes 14	0.1387	0.04324	0	None	x^2	0.01	Param.
Cobalt (mg/L)	CGYP-7	0.0889	0.04292	0.006	Yes 10	0.06591	0.02577	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-1	4.602	3.342	8.82	No 18	4.012	1.099	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-2	3.008	1.946	8.82	No 18	2.522	0.9466	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-3	6.076	4.511	8.82	No 18	5.294	1.293	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-4	5.203	2.882	8.82	No 14	4.042	1.638	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-6	6.74	3.229	8.82	No 14	4.984	2.478	0	None	No	0.01	Param.
Combined Radium 226 & 228 (pCi/l)	CGYP-7	6.593	4.223	8.82	No 10	5.408	1.328	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-1	1.141	0.8179	4	No 19	0.9795	0.2759	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-2	1.009	0.5345	4	No 19	0.7716	0.4049	10.53	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-3	2.97	1.211	4	No 19	2.091	1.502	5.263	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-4	2.085	1.096	4	No 14	1.591	0.6984	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-6	0.9376	0.5324	4	No 14	0.735	0.2861	0	None	No	0.01	Param.
Fluoride (mg/L)	CGYP-7	1.388	0.5082	4	No 10	0.948	0.4929	10	None	No	0.01	Param.
Lead (mg/L)	CGYP-1	0.01651	0.00627	0.015	No 18	0.01235	0.009324	5.556	None	sqrt(x)	0.01	Param.
Lead (mg/L)	CGYP-2	0.02385	0.01864	0.015	Yes 18	0.02078	0.005251	5.556	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-3	0.0298	0.019	0.015	Yes 18	0.02847	0.01701	0	None	No	0.01	NP (normality)
Lead (mg/L)	CGYP-4	0.01352	0.009338	0.015	No 14	0.01143	0.002954	7.143	None	No	0.01	Param.
Lead (mg/L)	CGYP-6	0.01327	0.00778	0.015	No 14	0.009671	0.005172	14.29	None	x^2	0.01	Param.
Lead (mg/L)	CGYP-7	0.04548	0.02916	0.015	Yes 10	0.03732	0.009144	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-1	0.024	0.00893	0.04	No 18	0.01596	0.00703	22.22	None	No	0.01	NP (normality)
Lithium (mg/L)	CGYP-2	0.015	0.005	0.04	No 18	0.01126	0.004284	27.78	None	No	0.01	NP (normality)
Lithium (mg/L)	CGYP-3	0.09274	0.05713	0.04	Yes 18	0.07493	0.02943	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

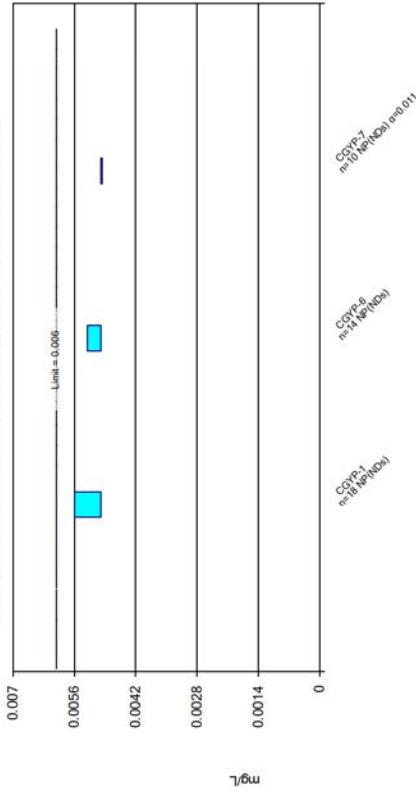
Page 2

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 1:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	CGYP-4	0.06655	0.05201	0.04	Yes 14	0.05928	0.01026	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-6	0.1612	0.1018	0.04	Yes 14	0.1315	0.04196	0	None	No	0.01	Param.
Lithium (mg/L)	CGYP-7	0.05	0.00785	0.04	No 10	0.01879	0.01661	20	None	No	0.011	NP (normality)
Mercury (mg/L)	CGYP-1	0.0002	0.0002	0.002	No 18	0.0002	1.2e-12	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	CGYP-3	0.00021	0.0002	0.002	No 18	0.0002172	0.00006351	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-1	0.0166	0.01	0.05	No 18	0.01272	0.004526	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-2	0.0113	0.0078	0.05	No 18	0.01112	0.004124	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-3	0.014	0.0067	0.05	No 18	0.01054	0.002457	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-4	0.01	0.00856	0.05	No 14	0.009897	0.0003849	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	CGYP-7	0.046	0.01	0.05	No 10	0.01738	0.01799	70	None	No	0.011	NP (NDs)

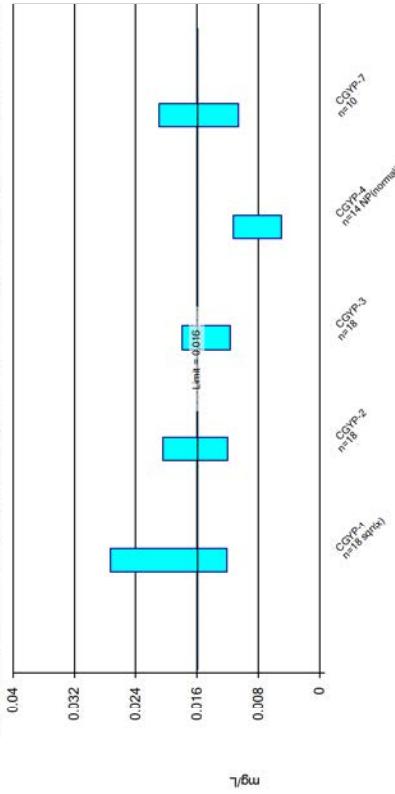
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



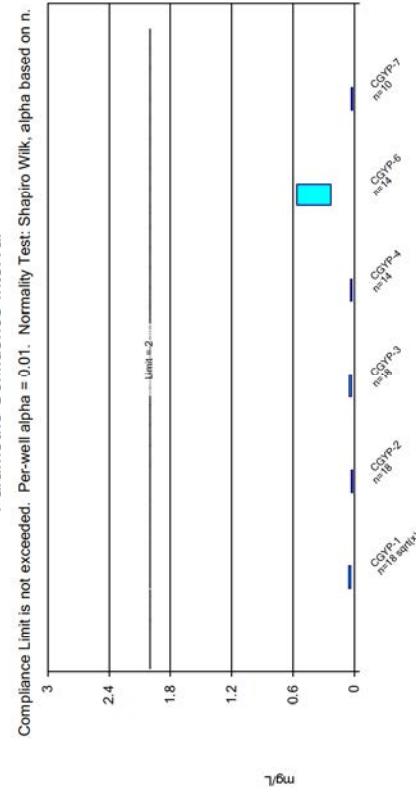
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



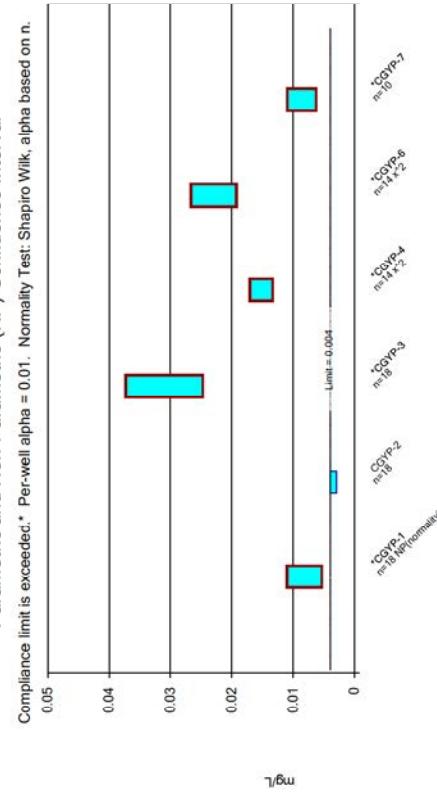
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



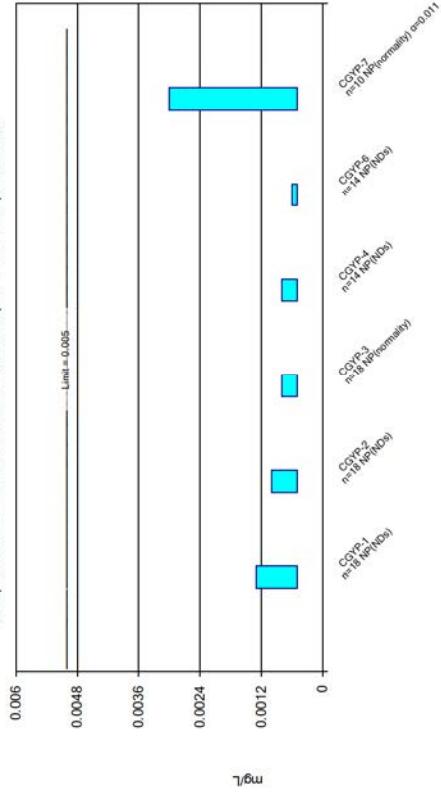
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



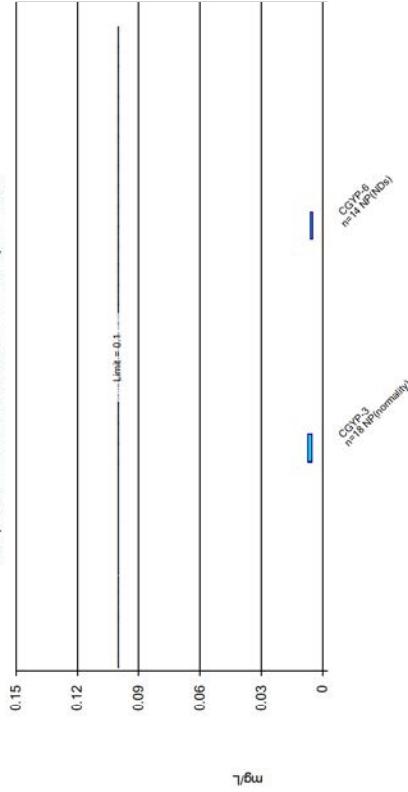
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



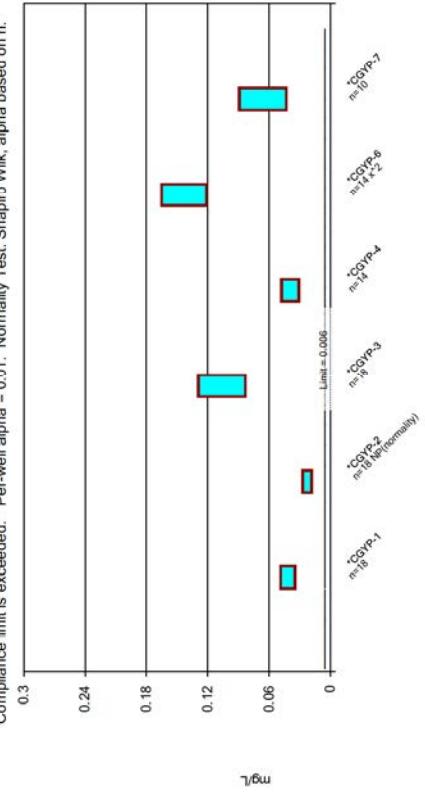
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



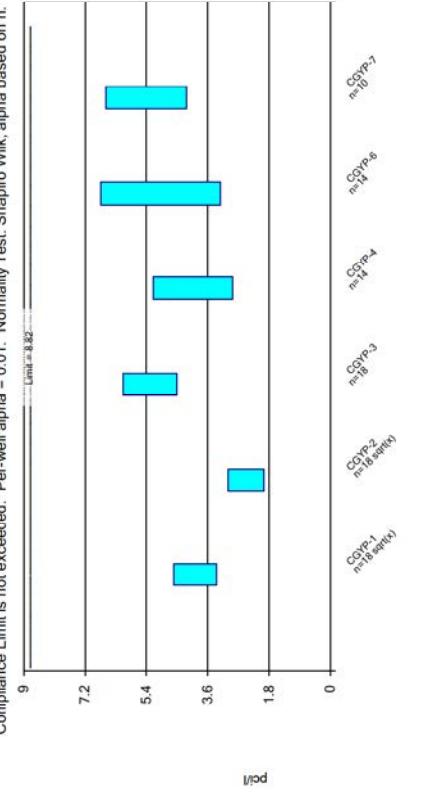
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

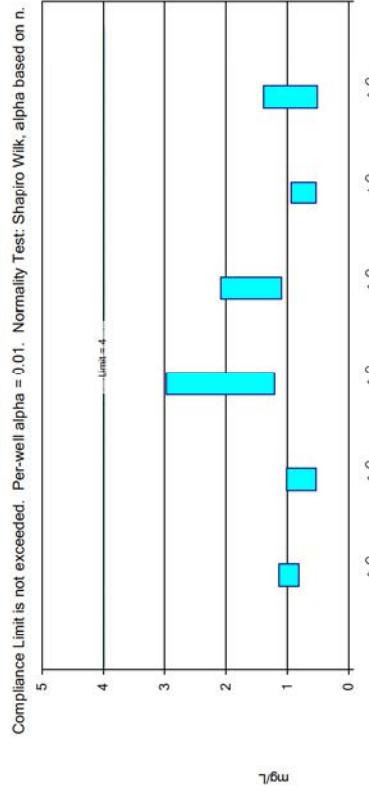


Parametric Confidence Interval

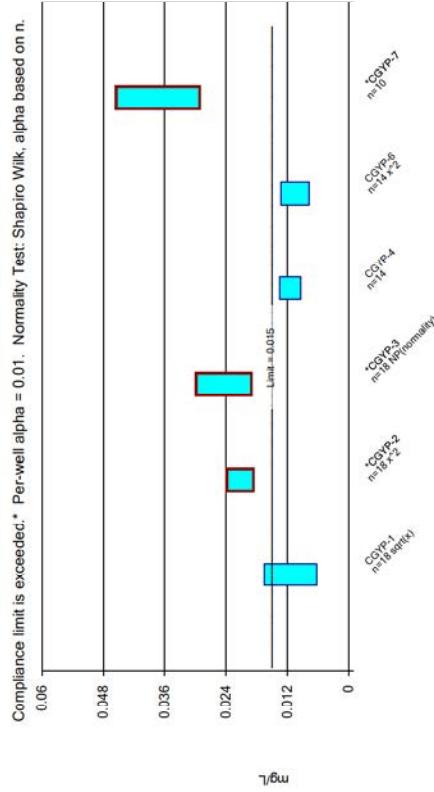
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



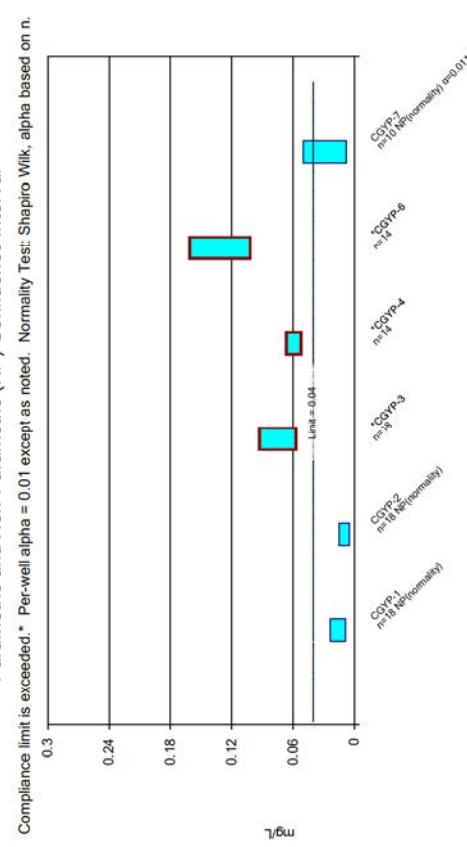
Parametric Confidence Interval



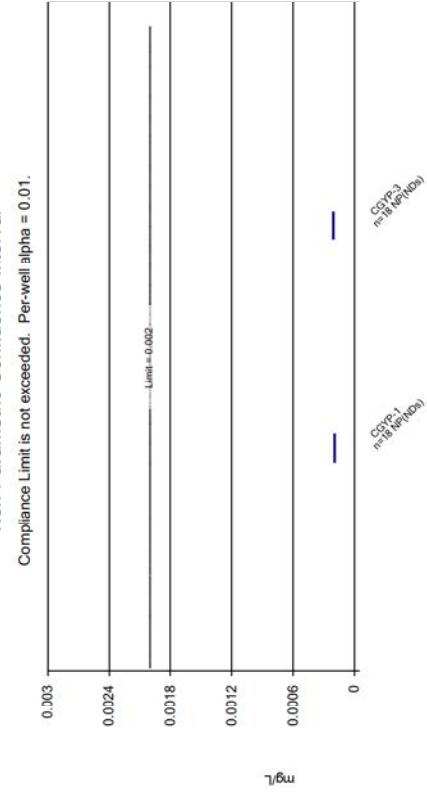
Parametric and Non-Parametric (NP) Confidence Interval



Parametric and Non-Parametric (NP) Confidence Interval

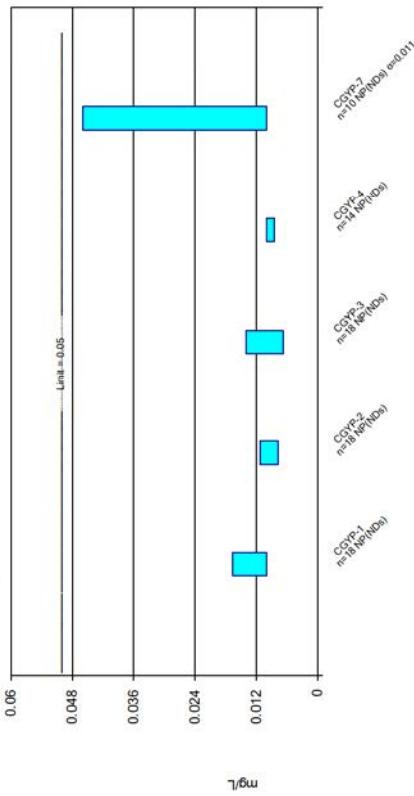


Non-Parametric Confidence Interval



Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 10/30/2024 1:00 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-6	CGYP-7
5/21/2020	<0.005		
6/4/2020	<0.005		
6/18/2020	<0.005		
7/1/2020	<0.005		
7/16/2020	<0.005		
7/30/2020	<0.005		
8/13/2020	<0.005		
8/27/2020	<0.005		
2/10/2021	<0.005		
4/7/2021	<0.005	<0.005	
5/13/2021		<0.005	
7/7/2021	<0.005		
7/8/2021		<0.005	
8/31/2021		<0.005	
9/27/2021		<0.005	
10/26/2021		<0.005	
11/17/2021		<0.005	
1/31/2022	<0.005	<0.005	
6/21/2022	<0.005	<0.005	
10/25/2022		<0.005	
10/26/2022	<0.005		<0.005
12/7/2022			<0.005
2/7/2023	<0.005	<0.005	<0.005
3/20/2023			<0.005
6/6/2023	<0.005		
6/7/2023		<0.005	<0.005
7/19/2023			<0.005
10/10/2023		0.0058	
12/5/2023			<0.005
1/4/2024		0.0053	<0.005
1/10/2024	<0.005		
6/12/2024	0.0056		<0.005
6/13/2024		<0.005	
Mean	0.005033	0.005021	0.00508
Std. Dev.	0.0001414	8.018E-05	0.000253
Upper Lim.	0.0056	0.0053	0.005
Lower Lim.	0.005	0.005	0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-7
5/21/2020	0.0171	0.029	0.0169		
6/4/2020	0.037	0.0167	0.0138		
6/18/2020	0.0406	0.0197	0.0215		
7/1/2020	0.0407		0.0179		
7/2/2020		0.0191			
7/16/2020	0.0165	0.0217	0.017		
7/30/2020	0.014	0.0214	0.0171		
8/13/2020	0.0175	0.0214	0.0176		
8/27/2020	0.0278	0.0204	0.015		
2/10/2021	0.0452	0.0184	0.022		
4/7/2021	0.0336	0.0169	0.0198	0.0103	
5/13/2021				0.0105	
7/7/2021	0.0181	0.0194	0.0183		
7/8/2021			0.0113		
9/1/2021			0.0115		
9/27/2021			0.0118		
10/26/2021			0.0104		
11/17/2021			0.0112		
1/31/2022	0.0146	0.0165	0.0169	0.008	
6/21/2022	<0.01	<0.003	<0.01	<0.01	
10/25/2022		<0.003	0.007	0.0041	
10/26/2022	0.00472			0.006	
12/7/2022				0.0061	
2/6/2023		0.00922	0.00795	0.00462	
2/7/2023	0.00956			0.0142	
3/20/2023				0.0168	
6/6/2023	0.00835				
6/7/2023		0.0131	0.0114	0.00514	0.0221
7/19/2023					0.0152
10/10/2023					0.0212
12/5/2023					0.0206
1/4/2024		0.0147			0.0202
1/10/2024	0.0163		0.0153	0.0057	
6/12/2024	0.0094	0.0111		0.005	0.0153
6/13/2024			0.0065		
Mean	0.02089	0.01621	0.01483	0.008183	0.01577
Std. Dev.	0.01314	0.00695	0.005179	0.003073	0.005827
Upper Lim.	0.02727	0.02041	0.01796	0.0113	0.02097
Lower Lim.	0.01211	0.012	0.0117	0.005	0.01057

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals
 CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.0899	0.024	0.0621			
6/4/2020	0.0447	0.0378	0.0582			
6/18/2020	0.0403	0.0445	0.0502			
7/1/2020	0.0426		0.0547			
7/2/2020		0.0439				
7/16/2020	0.0574	0.0274	0.0444			
7/30/2020	0.0575	0.0316	0.0437			
8/13/2020	0.0517	0.0289	0.0431			
8/27/2020	0.0447	0.0407	0.0459			
2/10/2021	0.0397	0.021	0.0405			
4/7/2021	0.0448	0.0145	0.0384	0.0454	0.326	
5/13/2021				0.0375	0.437	
7/7/2021	0.0522	0.0178	0.0378			
7/8/2021				0.0395	0.565	
8/31/2021					0.564	
9/1/2021			0.0364			
9/27/2021				0.0371	0.705	
10/26/2021				0.0336	0.529	
11/17/2021				0.0333	0.865	
1/31/2022	0.0301	0.0125	0.0246	0.025	0.258	
6/21/2022	0.023	<0.01	0.017	0.019	0.29	
10/25/2022		0.0183	0.0422	0.0306	0.465	
10/26/2022	0.0469				0.0281	
12/7/2022					0.0248	
2/6/2023		0.0171	0.034	0.0286		
2/7/2023	0.0391				0.159	0.0283
3/20/2023						0.0292
6/6/2023	0.0392					
6/7/2023		0.00976	0.0243	0.0255	0.204	0.0147
7/19/2023						0.0271
10/10/2023						0.0258
12/5/2023						0.0256
1/4/2024		0.0146			0.118	0.0203
1/10/2024	0.0509		0.0385	0.0264		
6/12/2024	0.0797	0.0155		0.0248		0.0238
6/13/2024			0.0427		0.0876	
Mean	0.04858	0.0236	0.04124	0.03162	0.3995	0.02477
Std. Dev.	0.01584	0.01201	0.01153	0.007182	0.2327	0.00438
Upper Lim.	0.05696	0.03087	0.04822	0.03671	0.5643	0.02868
Lower Lim.	0.03882	0.01634	0.03426	0.02653	0.2346	0.02086

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.0058	0.0053	0.0283			
6/4/2020	0.0098	0.0034	0.0367			
6/18/2020	0.0109	0.0034	0.037			
7/1/2020	0.011		0.0468			
7/2/2020		0.0044				
7/16/2020	0.0045	0.0034	0.0252			
7/30/2020	0.004	0.0035	0.022			
8/13/2020	0.0061	0.0036	0.022			
8/27/2020	0.009	0.0034	0.0318			
2/10/2021	0.0127	0.0025	0.035			
4/7/2021	0.0103	0.0031	0.0465	0.0174	0.0277	
5/13/2021				0.0164	0.0239	
7/7/2021	0.0061	0.0028	0.0269			
7/8/2021				0.0179	0.0212	
8/31/2021					0.0197	
9/1/2021				0.015		
9/27/2021				0.0156	0.0219	
10/26/2021				0.0152	0.0214	
11/17/2021				0.0149	0.0194	
1/31/2022	0.0112	0.004	0.0339	0.0166	0.0237	
6/21/2022	0.006	0.003	0.017	0.013	0.019	
10/25/2022		0.0043	0.0345	0.0188	0.027	
10/26/2022	0.0112					0.0117
12/7/2022						0.0116
2/6/2023		0.00424	0.0497	0.0162		
2/7/2023	0.011				0.0313	0.0116
3/20/2023						0.00944
6/6/2023	0.00398					
6/7/2023		0.00341	0.0221	0.0151	0.0279	0.00791
7/19/2023						0.00982
10/10/2023						0.0072
12/5/2023						0.006
1/4/2024		0.0018			0.0255	0.0053
1/10/2024	0.0067		0.0309	0.0096		
6/12/2024	0.0053	0.0021		0.0085		0.0051
6/13/2024			0.0115		<0.0005	
Mean	0.008088	0.003425	0.03099	0.01501	0.02213	0.008567
Std. Dev.	0.002949	0.0008469	0.01035	0.002914	0.007298	0.002627
Upper Lim.	0.011	0.003937	0.03725	0.01701	0.02662	0.01091
Lower Lim.	0.0053	0.002913	0.02473	0.01332	0.01923	0.006223

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	<0.0005	<0.0005	0.00062			
6/4/2020	<0.0005	<0.0005	0.0008			
6/18/2020	<0.0005	<0.0005	0.00074			
7/1/2020	<0.0005		0.0009			
7/2/2020		<0.0005				
7/16/2020	<0.0005	<0.0005	0.00061			
7/30/2020	<0.0005	<0.0005	<0.0005			
8/13/2020	<0.0005	<0.0005	<0.0005			
8/27/2020	<0.0005	<0.0005	0.00076			
2/10/2021	<0.0005	<0.0005	0.00078			
4/7/2021	<0.0005	<0.0005	0.00053	<0.0005	<0.0005	
5/13/2021				<0.0005	<0.0005	
7/7/2021	<0.0005	<0.0005	<0.0005			
7/8/2021				<0.0005	<0.0005	
8/31/2021					<0.0005	
9/1/2021				<0.0005		
9/27/2021				<0.0005	<0.0005	
10/26/2021				<0.0005	<0.0005	
11/17/2021				<0.0005	<0.0005	
1/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/21/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/25/2022		0.0014	0.0019	0.0008	0.0006	
10/26/2022	0.0022					0.0032
12/7/2022						0.003
2/6/2023		0.001	0.0015	<0.0005		
2/7/2023	0.0013				<0.0005	0.0015
3/20/2023						0.00079
6/6/2023	<0.0005					
6/7/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/19/2023						0.00056
10/10/2023						<0.0005
12/5/2023						<0.0005
1/4/2024		<0.0005			<0.0005	<0.0005
1/10/2024	<0.0005		<0.0005	<0.0005		
6/12/2024	<0.0005	<0.0005		<0.0005		<0.0005
6/13/2024			<0.0005		<0.0005	
Mean	0.0006389	0.0005778	0.00073	0.0005214	0.0005071	0.001155
Std. Dev.	0.0004327	0.0002365	0.0003826	8.018E-05	2.673E-05	0.001072
Upper Lim.	0.0013	0.001	0.0008	0.0008	0.0006	0.003
Lower Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

	CGYP-3	CGYP-6
5/21/2020	0.0058	
6/4/2020	0.0067	
6/18/2020	0.0063	
7/1/2020	0.0052	
7/16/2020	0.0053	
7/30/2020	0.0055	
8/13/2020	0.0056	
8/27/2020	0.0059	
2/10/2021	<0.005	
4/7/2021	0.0061	<0.005
5/13/2021		<0.005
7/7/2021	0.0079	
7/8/2021		<0.005
8/31/2021		<0.005
9/27/2021		<0.005
10/26/2021		<0.005
11/17/2021		<0.005
1/31/2022	<0.005	<0.005
6/21/2022	<0.005	<0.005
10/25/2022	0.009	<0.005
2/6/2023	0.0073	
2/7/2023		<0.005
6/7/2023	0.008	<0.005
1/4/2024		0.0061
1/10/2024	0.0056	
6/13/2024	<0.005	<0.005
Mean	0.006122	0.005079
Std. Dev.	0.001197	0.000294
Upper Lim.	0.0073	0.0061
Lower Lim.	0.0052	0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.0448	0.0506	0.115			
6/4/2020	0.0479	0.0199	0.13			
6/18/2020	0.0492	0.0229	0.152			
7/1/2020	0.0548		0.154			
7/2/2020		0.025				
7/16/2020	0.0353	0.027	0.113			
7/30/2020	0.032	0.028	0.0966			
8/13/2020	0.0371	0.0294	0.0936			
8/27/2020	0.0467	0.0244	0.117			
2/10/2021	0.0587	0.019	0.151			
4/7/2021	0.0536	0.0183	0.143	0.0532	0.163	
5/13/2021				0.0498	0.149	
7/7/2021	0.0362	0.0206	0.0967			
7/8/2021				0.0494	0.147	
8/31/2021					0.15	
9/1/2021				0.0487		
9/27/2021				0.0478	0.157	
10/26/2021				0.0463	0.158	
11/17/2021				0.0461	0.128	
1/31/2022	0.00931	0.00644	0.0504	0.0168	0.114	
6/21/2022	0.033	0.018	0.055	0.033	0.117	
10/25/2022		0.0215	0.0956	0.0415	0.156	
10/26/2022	0.0523				0.0797	
12/7/2022					0.0752	
2/6/2023		0.0227	0.141	0.0399		
2/7/2023	0.048				0.198	0.107
3/20/2023						0.0994
6/6/2023	0.0315					
6/7/2023		0.0224	0.0311	0.0199	0.138	0.0178
7/19/2023						0.0615
10/10/2023						0.0604
12/5/2023						0.0535
1/4/2024		0.0194			0.16	0.0526
1/10/2024	0.0404		0.122	0.0289		
6/12/2024	0.038	0.0173		0.0274		0.052
6/13/2024			0.0544		0.0074	
Mean	0.0416	0.02294	0.1062	0.03919	0.1387	0.06591
Std. Dev.	0.01167	0.008577	0.03798	0.01189	0.04324	0.02577
Upper Lim.	0.04866	0.027	0.1292	0.04762	0.165	0.0889
Lower Lim.	0.03454	0.0183	0.08321	0.03077	0.1214	0.04292

Confidence Interval

Constituent: Combined Radium 226 & 228 (pci/l) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	3.97	1.34	5.59			
6/4/2020	3.96	2.14	4.18			
6/18/2020	3.79	2.61	5.24			
7/1/2020	5.58		3.26			
7/2/2020		2.13				
7/16/2020	3.65	2.46	5.25			
7/30/2020	2.93	2.15	7.74			
8/13/2020	3.07	1.91	5.99			
8/27/2020	2.64	1.3	5.2			
2/10/2021	3.86	2.83	4.69			
4/7/2021	3.89	4.18	7.93	6.37	3.68	
5/13/2021				5.84	6.31	
7/7/2021	2.77	2.5	5.03			
7/8/2021				3.56	6.08	
8/31/2021					5.53	
9/1/2021				4.64		
9/27/2021				5.29	7.93	
10/26/2021				5.56	6.48	
11/17/2021				4.9	9.69	
1/31/2022	6.81	3.4	6.17	4.85	3.44	
6/21/2022	4.28	2.39	5.36	3.24	4.3	
10/25/2022		5.12	6.68	3.77	6.17	
10/26/2022	3.53					6.04
12/7/2022						5.82
2/6/2023		2.52	4.18	1.81		
2/7/2023	3.13				2.08	5.27
3/20/2023						7.77
6/6/2023	3.94					
6/7/2023		1.77	5.33	1.67	5.69	6.6
7/19/2023						3.55
10/10/2023						3.58
12/5/2023						5.52
1/4/2024		2.827			1.282	5.704
1/10/2024	4.66		3.349	4.06		
6/12/2024	5.75	1.827		1.0323		4.229
6/13/2024			4.12		1.12	
Mean	4.012	2.522	5.294	4.042	4.984	5.408
Std. Dev.	1.099	0.9468	1.293	1.638	2.478	1.328
Upper Lim.	4.602	3.008	6.076	5.203	6.74	6.593
Lower Lim.	3.342	1.946	4.511	2.882	3.229	4.223

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.58	0.75	0.65			
6/4/2020	0.96	0.75	2.89			
6/18/2020	1.05	0.62	2.82			
7/1/2020	0.69		0.73			
7/2/2020		<0.1				
7/16/2020	0.72	1.55	2.41			
7/30/2020	0.91	<0.1	<0.1			
8/13/2020	1.04	0.71	1			
8/27/2020	1.02	0.54	4.57			
9/21/2020	1.29	1.23	1.77			
2/10/2021	1.69	1.3	6.22			
4/7/2021	1.31	1.08	3.32	3.19	1.1	
5/13/2021				2.82	0.84	
7/7/2021	0.97	0.87	1.88			
7/8/2021				1.85	0.99	
8/31/2021					0.75	
9/1/2021				1.79		
9/27/2021				1.63	0.98	
10/26/2021				0.83	0.42	
11/17/2021				1.53	0.58	
1/31/2022	0.9	0.28	0.81	0.67	0.36	
6/21/2022	0.91	0.93	1.94	1.56	0.93	
10/25/2022		0.42	1.06	0.99	0.49	
10/26/2022	0.53				0.66	
12/7/2022					<0.1	
2/6/2023		1.12	3.08	1.58		
2/7/2023	1.28				0.89	1.61
3/20/2023						1.06
6/6/2023	0.89					
6/7/2023		0.53	1.6	1.16	0.68	0.91
7/19/2023						0.44
10/10/2023						1.7
12/5/2023						0.96
1/4/2024		0.92			1.08	1.01
1/10/2024	0.84		0.98	1.17		
6/12/2024	1.03	0.96		1.5		1.08
6/13/2024			1.94		0.2	
Mean	0.9795	0.7716	2.091	1.591	0.735	0.948
Std. Dev.	0.2759	0.4049	1.502	0.6984	0.2861	0.4929
Upper Lim.	1.141	1.009	2.97	2.085	0.9376	1.388
Lower Lim.	0.8179	0.5345	1.211	1.096	0.5324	0.5082

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.035	0.02	0.0279			
6/4/2020	0.0191	0.0238	0.019			
6/18/2020	0.0201	0.0247	0.0236			
7/1/2020	0.0202		0.0236			
7/2/2020		0.026				
7/16/2020	0.0116	0.0235	0.0269			
7/30/2020	0.005	0.0244	0.0295			
8/13/2020	0.0093	0.0247	0.0355			
8/27/2020	0.0087	0.0268	0.0193			
2/10/2021	0.0165	0.0196	0.092			
4/7/2021	0.008	0.0175	0.0248	0.0113	0.013	
5/13/2021				0.0122	0.0127	
7/7/2021	0.0097	0.0208	0.0297			
7/8/2021			0.0126	0.0131		
8/31/2021				0.0136		
9/1/2021			0.0146			
9/27/2021			0.0147	0.0137		
10/26/2021			0.0145	0.0158		
11/17/2021			0.0147	0.0068		
1/31/2022	0.0056	0.019	0.0244	0.0113	0.0105	
6/21/2022	<0.01	<0.01	0.011	<0.01	<0.001	
10/25/2022		0.0251	0.0298	0.0134	0.0028	
10/26/2022	0.0089				0.0551	
12/7/2022					0.0473	
2/6/2023		0.0234	0.0328	0.00927		
2/7/2023	0.00625				0.0118	0.0378
3/20/2023					0.0361	
6/6/2023	0.00144					
6/7/2023		0.0166	0.0181	0.00896	0.0132	0.0234
7/19/2023					0.037	
10/10/2023					0.0404	
12/5/2023					0.0363	
1/4/2024		0.0176		0.0074	0.0331	
1/10/2024	0.0021		0.0281	0.0091		
6/12/2024	0.0298	0.0156		0.0084		0.0267
6/13/2024			0.0165		<0.001	
Mean	0.01235	0.02078	0.02847	0.01143	0.009671	0.03732
Std. Dev.	0.009324	0.005251	0.01701	0.002954	0.005172	0.009144
Upper Lim.	0.01651	0.02385	0.0298	0.01352	0.01327	0.04548
Lower Lim.	0.00627	0.01864	0.019	0.009338	0.00778	0.02916

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals
 CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-6	CGYP-7
5/21/2020	0.015	0.015	0.069			
6/4/2020	0.027	<0.005	0.09			
6/18/2020	0.028	0.015	0.11			
7/1/2020	<0.01		0.11			
7/2/2020		0.015				
7/16/2020	0.01	<0.005	0.071			
7/30/2020	<0.01	0.014	0.06			
8/13/2020	<0.01	<0.005	0.063			
8/27/2020	0.023	0.016	0.093			
2/10/2021	0.024	0.013	0.11			
4/7/2021	0.02	0.014	0.094	0.058	0.14	
5/13/2021				0.058	0.13	
7/7/2021	0.014	0.015	0.056			
7/8/2021				0.058	0.12	
8/31/2021					0.13	
9/1/2021			0.064			
9/27/2021			0.067	0.15		
10/26/2021			0.053	0.11		
11/17/2021			0.052	0.11		
1/31/2022	0.0183	0.0109	0.1	0.0642	0.128	
6/21/2022	<0.01	<0.005	0.029	0.039	0.1	
10/25/2022		<0.005	0.0517	0.0712	0.148	
10/26/2022	0.00893				0.00785	
12/7/2022					<0.05	
2/6/2023		0.0142	0.0143	0.0687		
2/7/2023	0.0247				0.198	0.0116
3/20/2023						<0.05
6/6/2023	0.00779					
6/7/2023		0.0139	0.0701	0.0766	0.181	0.0115
7/19/2023						0.0151
10/10/2023						0.0135
12/5/2023						0.00732
1/4/2024		0.00952			0.172	0.01
1/10/2024	0.0182		0.113	0.0449		
6/12/2024	0.00838	0.0122		0.0553		0.011
6/13/2024			0.0447		0.0237	
Mean	0.01596	0.01126	0.07493	0.05928	0.1315	0.01879
Std. Dev.	0.00703	0.004284	0.02943	0.01026	0.04196	0.01661
Upper Lim.	0.024	0.015	0.09274	0.06655	0.1612	0.05
Lower Lim.	0.00893	0.005	0.05713	0.05201	0.1018	0.00785

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals
CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-3
5/21/2020	<0.0002	<0.0002
6/4/2020	<0.0002	<0.0002
6/18/2020	<0.0002	0.00047
7/1/2020	0.0002	0.00023
7/16/2020	<0.0002	<0.0002
7/30/2020	<0.0002	<0.0002
8/13/2020	<0.0002	<0.0002
8/27/2020	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002
4/7/2021	<0.0002	0.00021
7/7/2021	<0.0002	<0.0002
1/31/2022	<0.0002	<0.0002
6/21/2022	<0.0002	<0.0002
10/25/2022		<0.0002
10/26/2022	<0.0002	
2/6/2023		<0.0002
2/7/2023	<0.0002	
6/6/2023	<0.0002	
6/7/2023		<0.0002
1/10/2024	<0.0002	<0.0002
6/12/2024	<0.0002	
6/13/2024		<0.0002
Mean	0.0002	0.0002172
Std. Dev.	1.2E-12	6.351E-05
Upper Lim.	0.0002	0.00021
Lower Lim.	0.0002	0.0002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/30/2024 1:02 PM View: Confidence Intervals

CGYP Client: Santee Cooper Data: CGYP

	CGYP-1	CGYP-2	CGYP-3	CGYP-4	CGYP-7
5/21/2020	<0.01	0.0113	<0.01		
6/4/2020	0.0166	0.0078	0.0067		
6/18/2020	0.0143	<0.01	<0.01		
7/1/2020	0.0177		<0.01		
7/2/2020		<0.01			
7/16/2020	<0.01	<0.01	<0.01		
7/30/2020	<0.01	<0.01	<0.01		
8/13/2020	<0.01	<0.01	<0.01		
8/27/2020	<0.01	<0.01	<0.01		
2/10/2021	0.0163	<0.01	<0.01		
4/7/2021	<0.01	<0.01	<0.01	<0.01	
5/13/2021				<0.01	
7/7/2021	<0.01	<0.01	<0.01		
7/8/2021			<0.01		
9/1/2021			<0.01		
9/27/2021			<0.01		
10/26/2021			<0.01		
11/17/2021			<0.01		
1/31/2022	0.018	0.014	0.014	<0.01	
6/21/2022	<0.01	<0.01	<0.01	<0.01	
10/25/2022		0.027	0.019	0.00856	
10/26/2022	0.026				0.046
12/7/2022					0.0558
2/6/2023		<0.01	<0.01	<0.01	
2/7/2023	<0.01				0.002
3/20/2023					<0.01
6/6/2023	<0.01				
6/7/2023		<0.01	<0.01	<0.01	<0.01
7/19/2023					<0.01
10/10/2023					<0.01
12/5/2023					<0.01
1/4/2024		<0.01			<0.01
1/10/2024	<0.01		<0.01	<0.01	
6/12/2024	<0.01	<0.01		<0.01	<0.01
6/13/2024			<0.01		
Mean	0.01272	0.01112	0.01054	0.009897	0.01738
Std. Dev.	0.004526	0.004124	0.002457	0.0003849	0.01799
Upper Lim.	0.0166	0.0113	0.014	0.01	0.046
Lower Lim.	0.01	0.0078	0.0067	0.00856	0.01

FIGURE J.

Appendix IV Trend Tests - Significant Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 5:14 PM

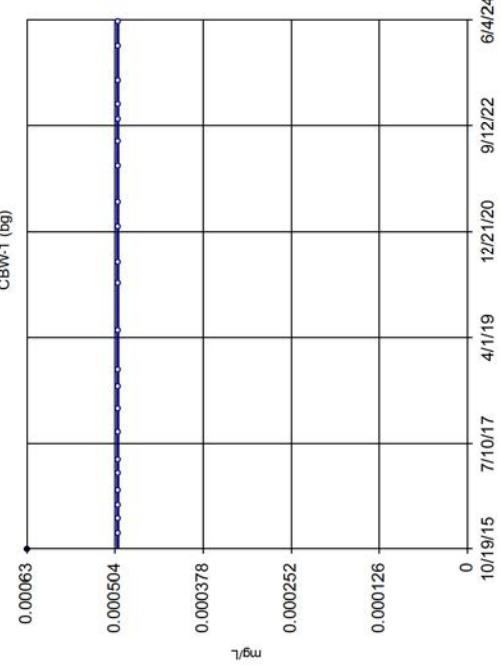
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CGYP-4	-0.00249	-39	-37	Yes	14	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-7	-0.005137	-40	-23	Yes	10	0	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007011	-167	-81	Yes	24	4.167	n/a	0.05	NP
Cobalt (mg/L)	CGYP-2	-0.00195	-61	-53	Yes	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-4	-0.008104	-71	-37	Yes	14	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-7	-0.02182	-27	-23	Yes	10	0	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004776	154	81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.0001137	-142	-81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CGYP-1	-0.003781	-72	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-2	-0.001981	-58	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-7	-0.0136	-25	-23	Yes	10	0	n/a	0.05	NP

Appendix IV Trend Tests - All Results

CGYP Client: Santee Cooper Data CGYP Printed 10/30/2024, 5:14 PM

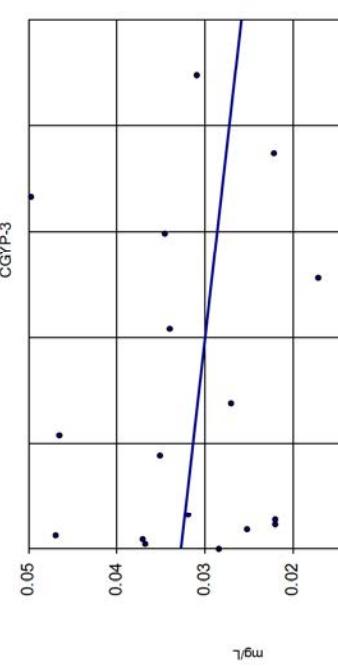
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	CBW-1 (bg)	0	-22	-76	No	23	95.65	n/a	0.05	NP
Beryllium (mg/L)	CGYP-1	0	-2	-53	No	18	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-3	-0.001686	-24	-53	No	18	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-4	-0.00249	-39	-37	Yes	14	0	n/a	0.05	NP
Beryllium (mg/L)	CGYP-6	-0.0002776	-1	-37	No	14	7.143	n/a	0.05	NP
Beryllium (mg/L)	CGYP-7	-0.005137	-40	-23	Yes	10	0	n/a	0.05	NP
Beryllium (mg/L)	PM-1 (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	CBW-1 (bg)	-0.00007011	-167	-81	Yes	24	4.167	n/a	0.05	NP
Cobalt (mg/L)	CGYP-1	-0.001868	-23	-53	No	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-2	-0.00195	-61	-53	Yes	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-3	-0.01498	-53	-53	No	18	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-4	-0.008104	-71	-37	Yes	14	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-6	-0.006791	-13	-37	No	14	0	n/a	0.05	NP
Cobalt (mg/L)	CGYP-7	-0.02182	-27	-23	Yes	10	0	n/a	0.05	NP
Cobalt (mg/L)	PM-1 (bg)	0.00004776	154	81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CBW-1 (bg)	-0.0001137	-142	-81	Yes	24	4.167	n/a	0.05	NP
Lead (mg/L)	CGYP-1	-0.003781	-72	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-2	-0.001981	-58	-53	Yes	18	5.556	n/a	0.05	NP
Lead (mg/L)	CGYP-3	0	0	53	No	18	0	n/a	0.05	NP
Lead (mg/L)	CGYP-4	-0.001232	-33	-37	No	14	7.143	n/a	0.05	NP
Lead (mg/L)	CGYP-6	-0.002449	-28	-37	No	14	14.29	n/a	0.05	NP
Lead (mg/L)	CGYP-7	-0.0136	-25	-23	Yes	10	0	n/a	0.05	NP
Lead (mg/L)	PM-1 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Lithium (mg/L)	CBW-1 (bg)	0	-11	-81	No	24	95.83	n/a	0.05	NP
Lithium (mg/L)	CGYP-1	-0.000819	-41	-53	No	18	22.22	n/a	0.05	NP
Lithium (mg/L)	CGYP-2	-0.0003032	-26	-53	No	18	27.78	n/a	0.05	NP
Lithium (mg/L)	CGYP-3	-0.00779	-34	-53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	CGYP-4	0.0008745	6	37	No	14	0	n/a	0.05	NP
Lithium (mg/L)	CGYP-6	0.005159	3	37	No	14	0	n/a	0.05	NP
Lithium (mg/L)	CGYP-7	-0.002595	-12	-23	No	10	20	n/a	0.05	NP
Lithium (mg/L)	PM-1 (bg)	0	22	81	No	24	87.5	n/a	0.05	NP

Sen's Slope Estimator CBW-1 (bg)



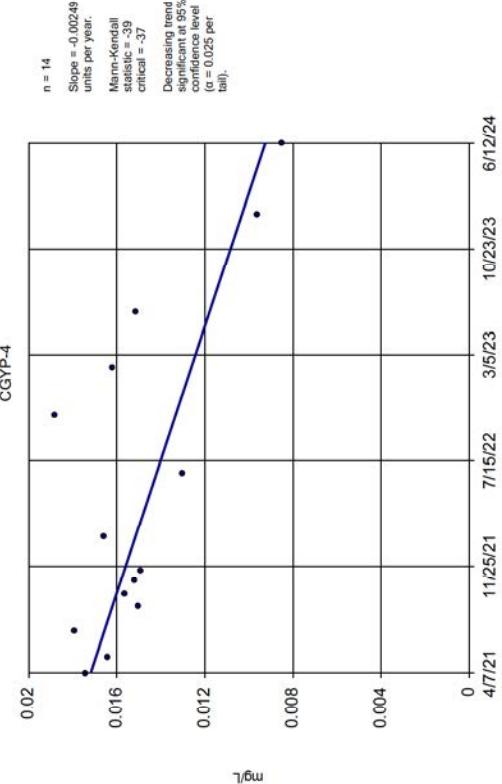
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-3



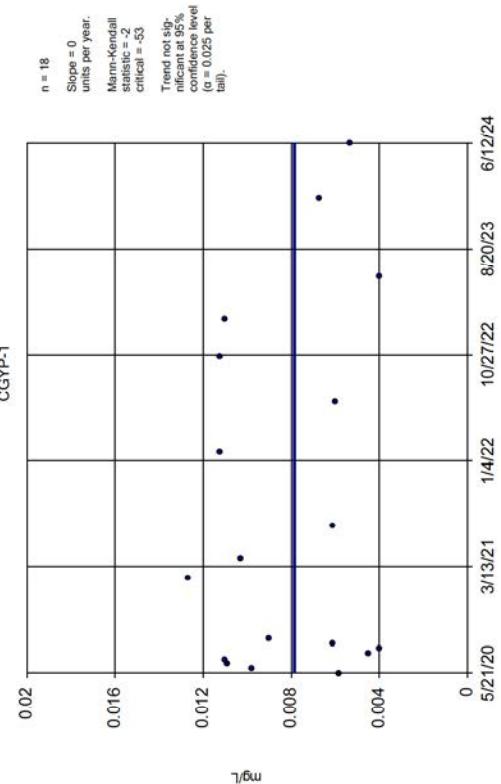
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4



Constituent: Beryllium Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-1

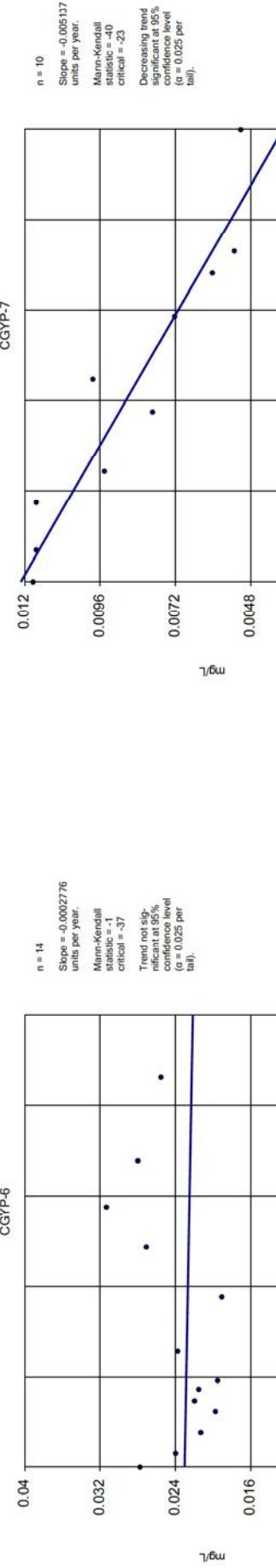


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CGYP Client: Santee Cooper Data: CGYP

Constituent: Beryllium Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

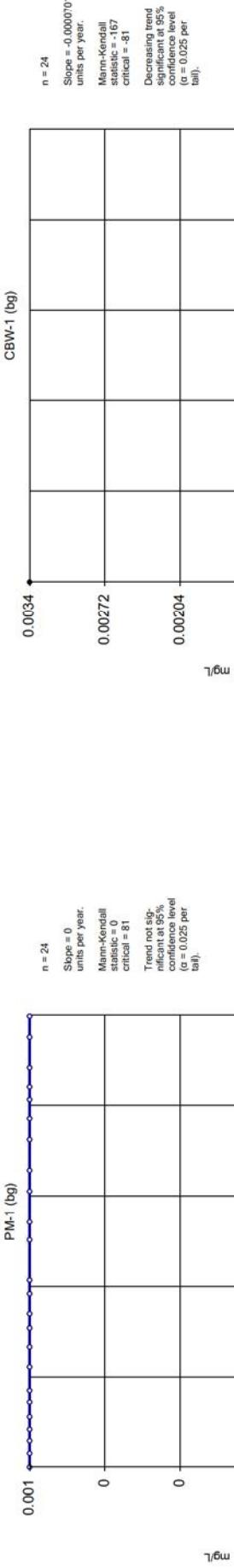
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-6



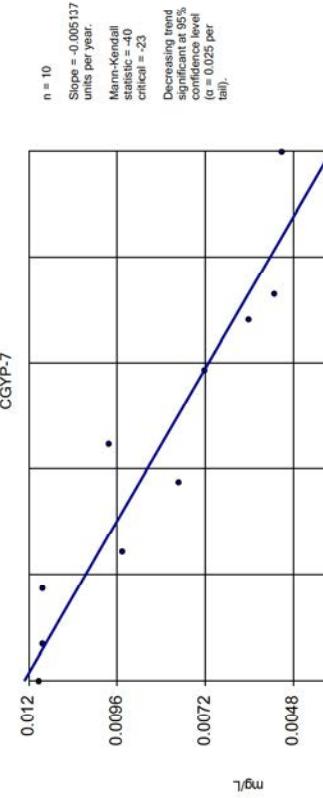
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator PM-1 (μg)



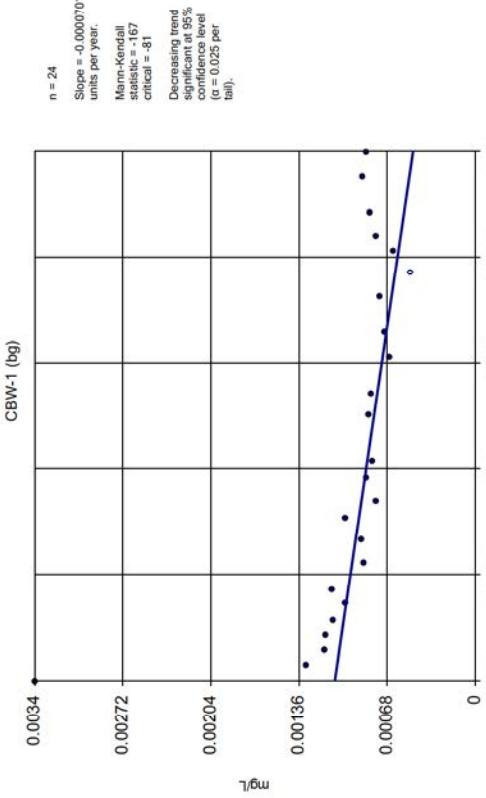
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-7



Constituent: Beryllium Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CBW-1 (μg)

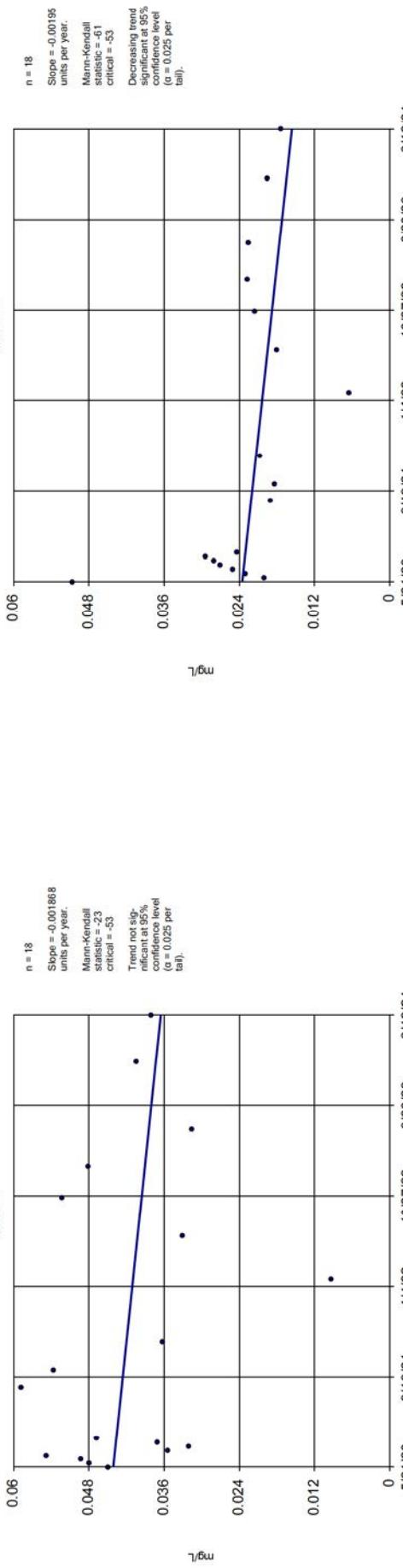


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CGYP Client: Santee Cooper Data: CGYP

Constituent: Cobalt Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Beryllium Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-1



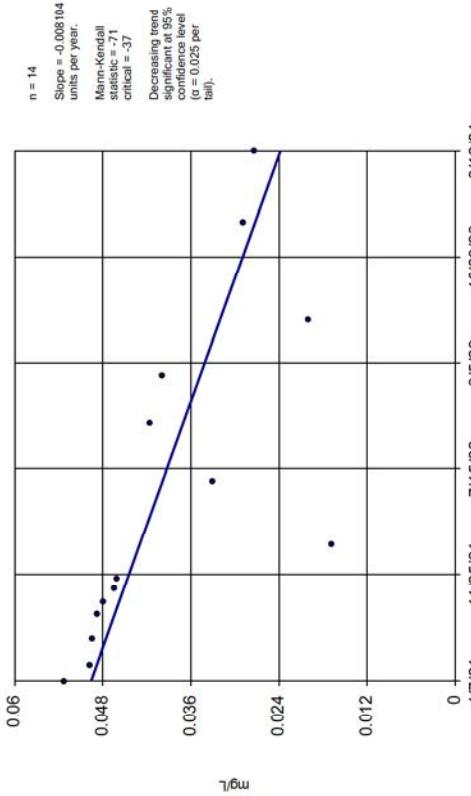
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-3



Constituent: Cobalt Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-2

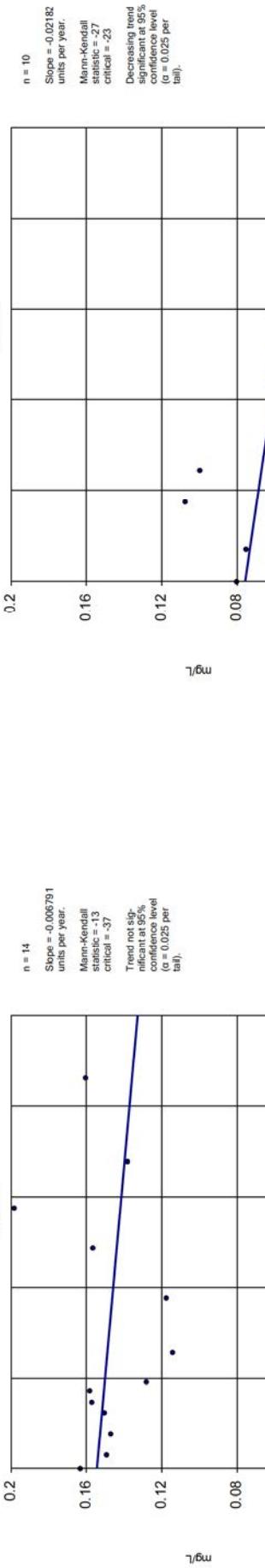


Constituent: Cobalt Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Cobalt Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Cobalt Analysis Run 10/30/2024 5:11 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-6



Constituent: Cobalt Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Sen's Slope Estimator PM-1 (ng)



Constituent: Cobalt Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

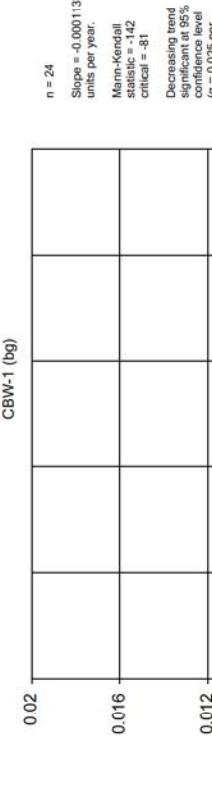
Sen's Slope Estimator CGYP-7



Constituent: Cobalt Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Sen's Slope Estimator CBW-1 (bg)



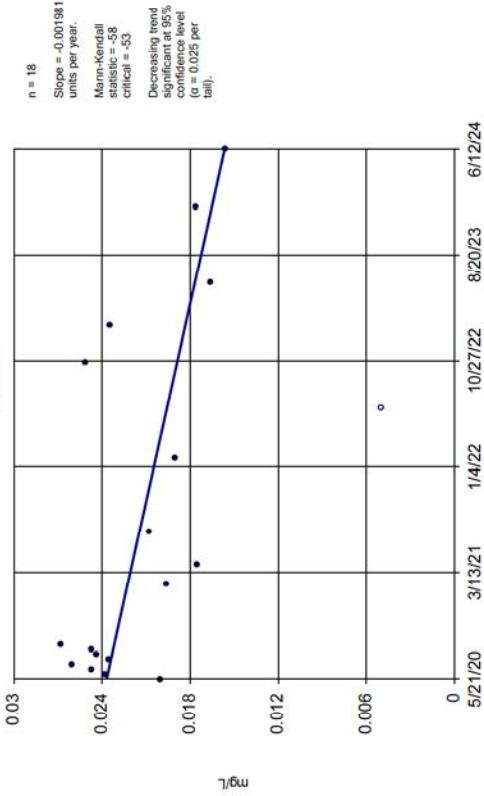
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-1



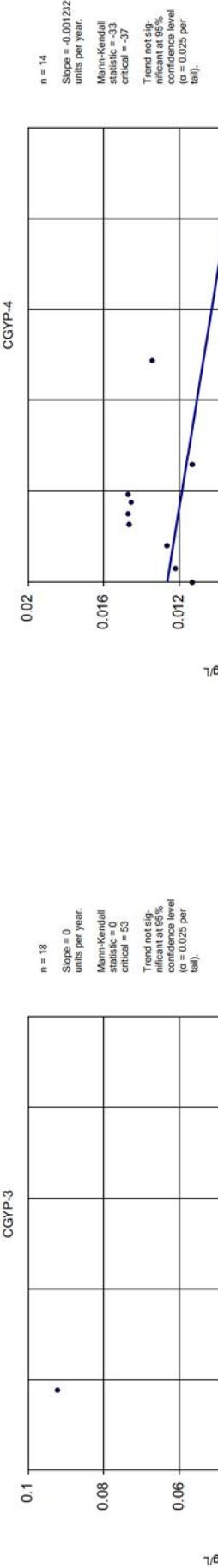
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-2



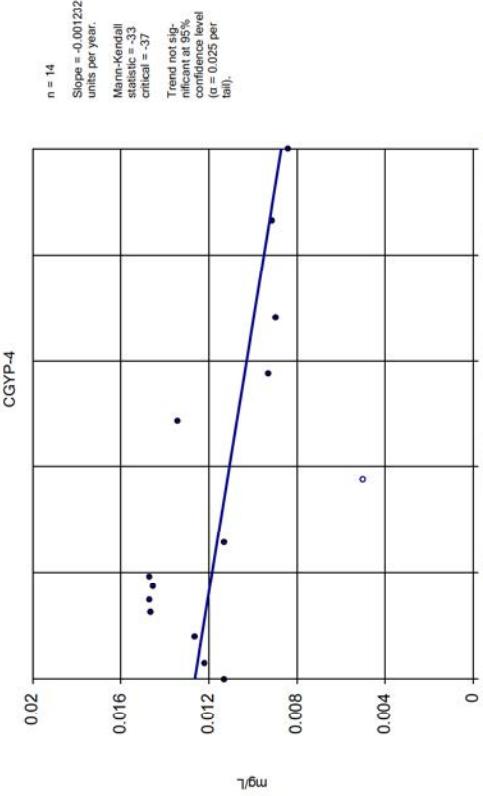
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-3



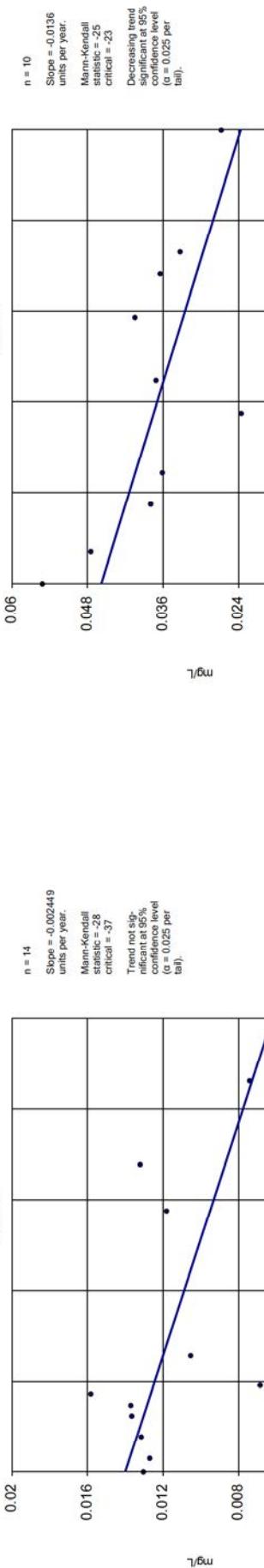
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4



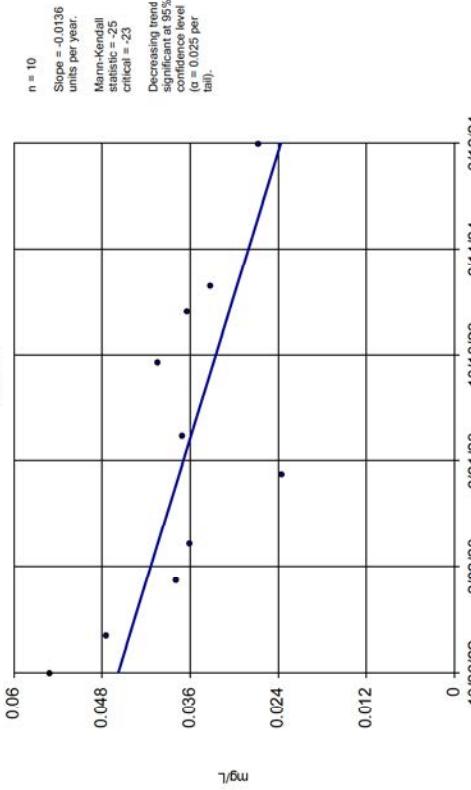
Constituent: Lead Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-6



Constituent: Lead Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-7



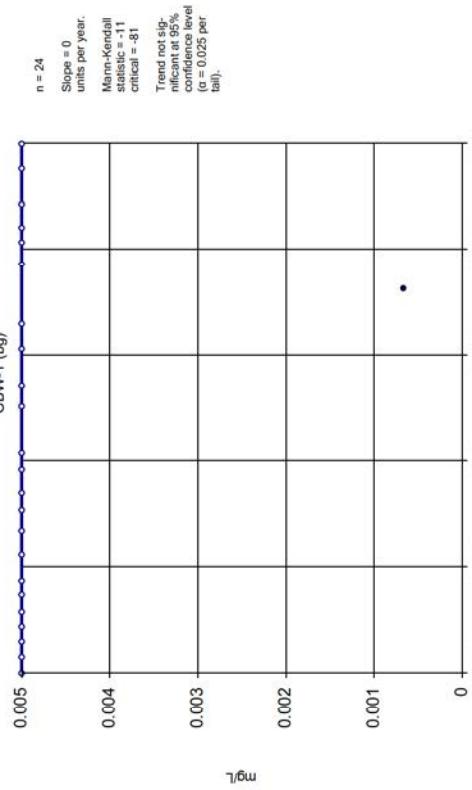
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator PM-1 (bg)



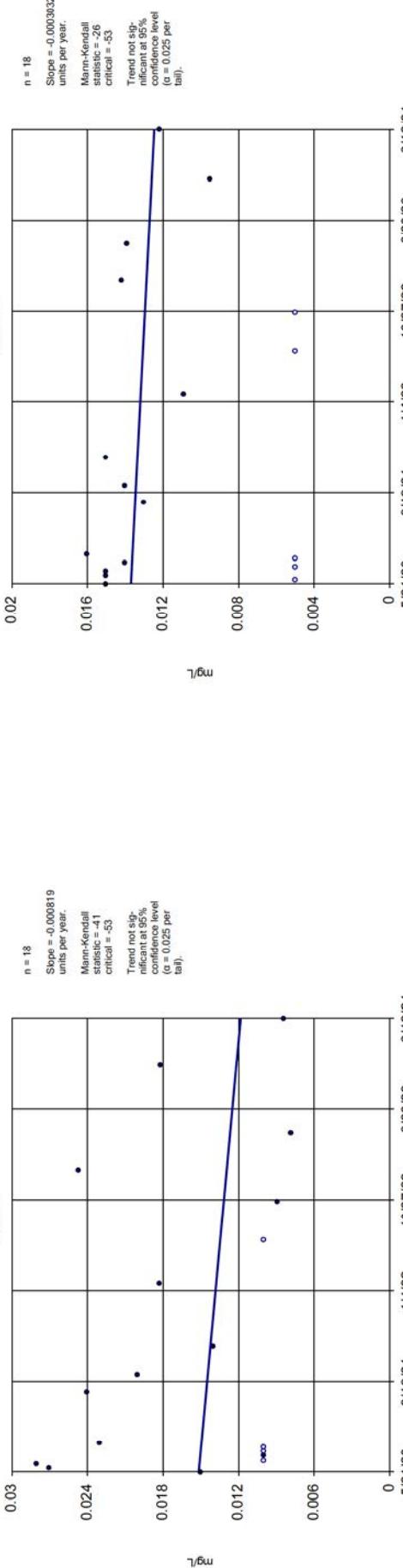
Constituent: Lead Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CBW-1 (bg)



Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

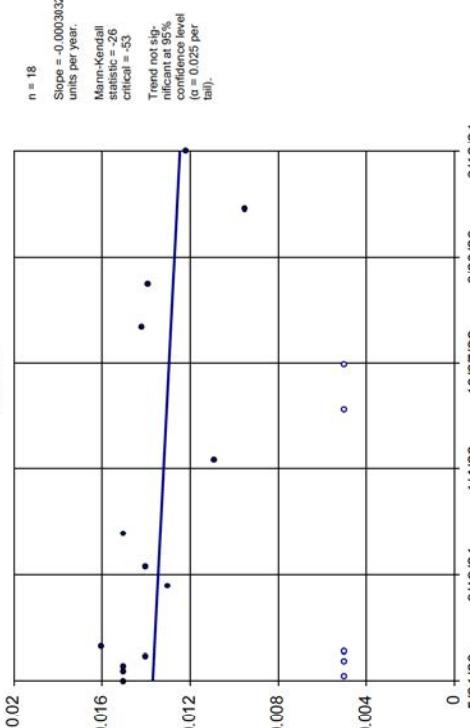
Sen's Slope Estimator CGYP-1



Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

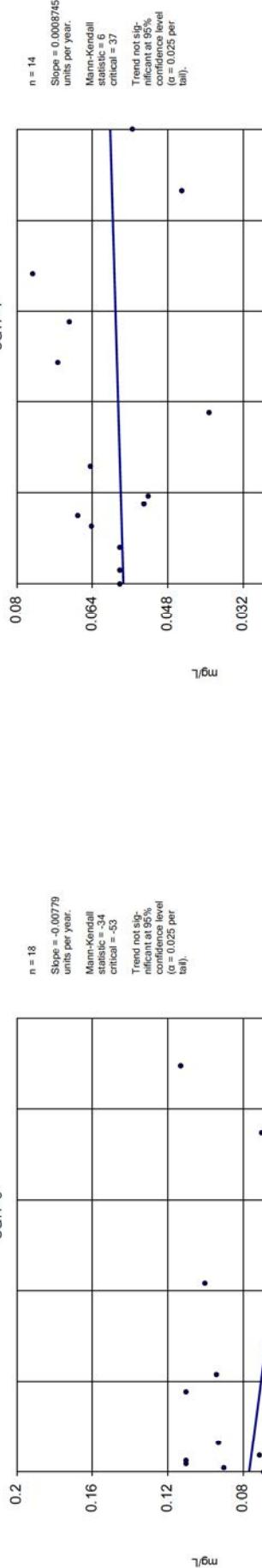
Sen's Slope Estimator CGYP-2



Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

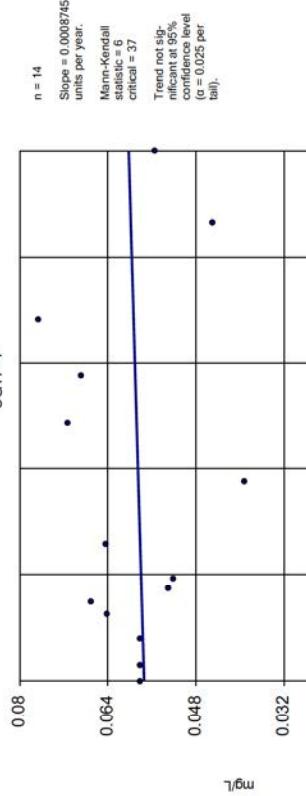
Sen's Slope Estimator CGYP-3



Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

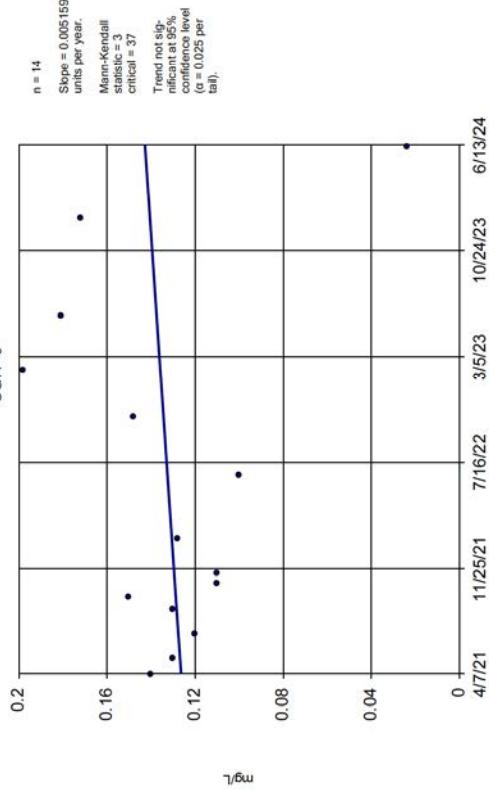
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CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator CGYP-4



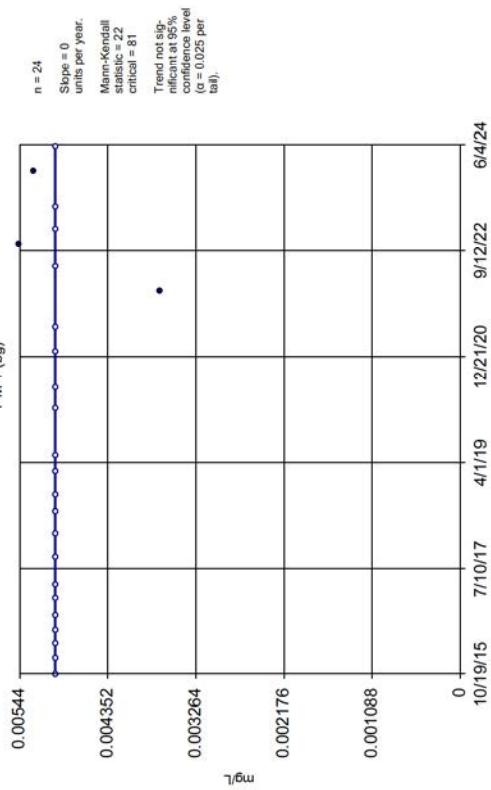
Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator
CGYP-6

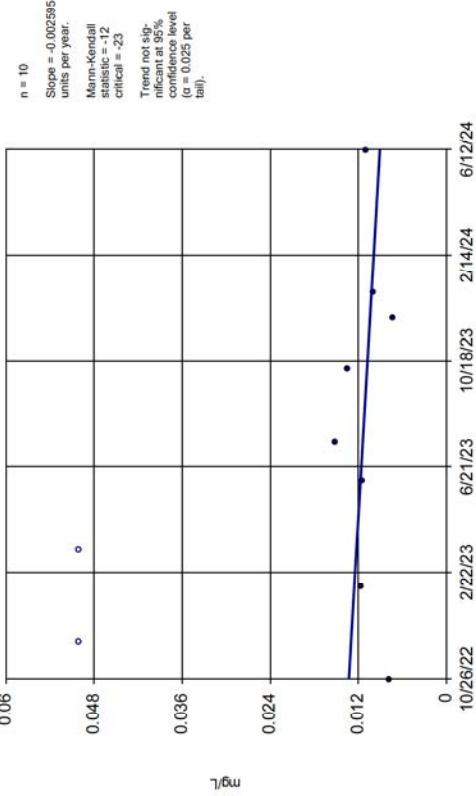
Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator
PM-1 (ng)

Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Sen's Slope Estimator
CGYP-7

Santast™ v.10.0.23a Software licensed to Groundwater Stats Consulting UG
Hollow symbols indicate censored values.

Constituent: Lithium Analysis Run 10/30/2024 5:12 PM View: Appendix IV Trend Tests
CGYP Client: Santee Cooper Data: CGYP

Appendix B:

**Certificates of Analysis, External Lab Reports,
& Field Parameters**

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		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:



Linda Williams - Manager Analytical Services

 Validation date: 3/27/24
Authorized Signature Only- Not Valid Unless Signed

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

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

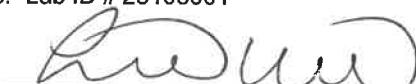
Sample # AF87792 **Location:** GW Well CGYP-1 **Date:** 01/10/2024 **Sample Collector:** WJK/ML
Loc. Code CGYP-1 **Time:** 11:38

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	16.3	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	50.9	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	6.7	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	257	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	40.4	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Lead	2.1	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/23/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	9720	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Lithium	18.2	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	0.84	mg/L	01/18/2024		EPA 300.0
Chloride	733	mg/L	01/18/2024	KCWELLS	EPA 300.0
Sulfate	384	mg/L	01/18/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1570	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	1.32	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	3.34	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.66	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	4.39	SU	01/10/2024	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: 2/27/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

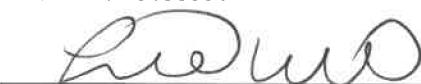
Sample #	AF87793	Location:	GW Well CGYP-2	Date:	01/04/2024	Sample Collector:	MDG/BB
Loc. Code	CGYP-2			Time:	11:33		

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	14.7	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Barium	14.6	ug/L	01/10/2024	SKJACOBS	EPA 6020B
Beryllium	1.8	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Calcium	173	mg/L	01/10/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Cobalt	19.4	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Lead	17.6	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Boron	727	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Lithium	9.52	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	0.92	mg/L	01/08/2024	KCWELLS	EPA 300.0
Chloride	59.3	mg/L	01/08/2024	KCWELLS	EPA 300.0
Sulfate	1130	mg/L	01/08/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1328	mg/L	01/08/2024	TDHARRIS	SM 2540C
Radium 226	0.687	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	2.14	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.827	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	3.83	SU	01/04/2024	MDG/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:



Linda Williams - Manager Analytical Services

 Validation date: 2/27/24
Authorized Signature Only- Not Valid Unless Signed

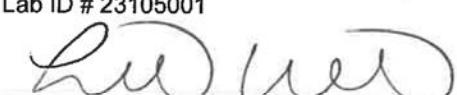
SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample #	AF87794	Location:	GW Well CGYP-2	Date:	01/04/2024	Sample Collector:	MDG/BB
Loc. Code	CGYP-2		DUP		Time: 11:38		
Analysis		Result	Units	Test Date	Analyst	Method	
Arsenic		14.4	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Barium		14.3	ug/L	01/10/2024	SKJACOBS	EPA 6020B	
Beryllium		1.9	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Calcium		188	mg/L	01/10/2024	SKJACOBS	EPA 6020B	
Cadmium		<0.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Cobalt		18.7	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Chromium		<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Lead		18.1	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Antimony		<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Selenium		<10.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Thallium		<1.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B	
Boron		719	ug/L	01/10/2024	SKJACOBS	EPA 6010D	
Lithium		10.1	ug/L	01/10/2024	SKJACOBS	EPA 6010D	
Molybdenum		<5.0	ug/L	01/10/2024	SKJACOBS	EPA 6010D	
Mercury		<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470	
Fluoride		0.89	mg/L	01/08/2024	KCWELLS	EPA 300.0	
Chloride		60.1	mg/L	01/08/2024	KCWELLS	EPA 300.0	
Sulfate		949	mg/L	01/08/2024	KCWELLS	EPA 300.0	
Total Dissolved Solids		1368	mg/L	01/08/2024	KCWELLS	SM 2540C	
Radium 226		0.904	pCi/L	01/24/2024	GEL	EPA 903.1 Mod	
Radium 228		1.84	pCi/L	01/23/2024	GEL	EPA 904.0	
Radium 226/228 Combined Calculation		2.744	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod	

Comments:

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

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date: 2/27/24

Authorized Signature Only- Not Valid Unless Signed



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 # AF87795 Location: GW Well CGYP-3 Date: 01/10/2024 Sample Collector: WJK/ML
Loc. Code CGYP-3 Time: 12:35

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	15.3	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	38.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	30.9	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	665	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	122	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	5.6	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Lead	28.1	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/23/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	21500	ug/L	02/13/2024	SKJACOBS	EPA 6010D
Lithium	113	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	0.98	mg/L	01/18/2024	KCWELLS	EPA 300.0
Chloride	1150	mg/L	01/18/2024	KCWELLS	EPA 300.0
Sulfate	889	mg/L	01/18/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	3978	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	0.589	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	2.76	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.349	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	4.01	SU	01/10/2024	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: 2/27/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF87796 **Location:** GW Well CGYP-4 **Date:** 01/10/2024 **Sample Collector:** WJK/ML

Loc. Code CGYP-4 **Time:** 14:16

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	26.4	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	9.6	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	221	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	28.9	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Lead	9.1	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/23/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	5180	ug/L	02/13/2024	SKJACOBS	EPA 6010D
Lithium	44.9	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	1.17	mg/L	01/18/2024	KCWELLS	EPA 300.0
Chloride	334	mg/L	01/18/2024	KCWELLS	EPA 300.0
Sulfate	502	mg/L	01/18/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1339	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	1.88	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	2.18	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.06	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	3.81	SU	01/10/2024	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:

2/27/24

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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 # AF87798 **Location:** GW Well CGYP-6 **Date:** 01/04/2024 **Sample Collector:** MDG/BB
Loc. Code CGYP-6 **Time:** 10:10

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Barium	118	ug/L	01/10/2024	SKJACOBS	EPA 6020B
Beryllium	25.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Calcium	474	mg/L	01/10/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Cobalt	160	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Chromium	6.1	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Lead	7.4	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Antimony	5.3	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Boron	8330	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Lithium	172	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	1.08	mg/L	01/08/2024		KCWELLS
Chloride	1150	mg/L	01/08/2024	KCWELLS	EPA 300.0
Sulfate	161	mg/L	01/08/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	2484	mg/L	01/08/2024	KCWELLS	SM 2540C
Radium 226	0.410	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	0.872	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.282	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	3.70	SU	01/04/2024	MDG/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:

Linda Williams - Manager Analytical Services

Validation date: 2/27/24

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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

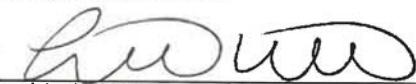
Sample # AF87799 **Location:** GW Well CGYP-7 **Date:** 01/04/2024 **Sample Collector:** MDG/BB
Loc. Code CGYP-7 **Time:** 14:10

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	20.2	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Barium	20.3	ug/L	01/10/2024	SKJACOBS	EPA 6020B
Beryllium	5.3	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Calcium	343	mg/L	01/10/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Cobalt	52.6	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Lead	33.1	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Boron	10300	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Lithium	10.0	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	1.01	mg/L	01/08/2024	KCWELLS	EPA 300.0
Chloride	802	mg/L	01/08/2024	KCWELLS	EPA 300.0
Sulfate	684	mg/L	01/08/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	2120	mg/L	01/08/2024	KCWELLS	SM 2540C
Radium 226	0.734	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	4.97	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.704	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	3.77	SU	01/04/2024	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: 2/27/24
Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

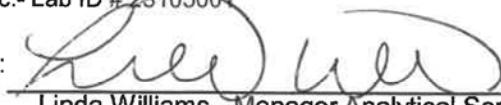
Sample # AF87784 **Location:** GW Well CCMGP-1 **Date:** 01/04/2024 **Sample Collector:** MDG/BB
Loc. Code CCMGP-1 **Time:** 13:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Barium	292	ug/L	01/10/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Calcium	145	mg/L	01/10/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Cobalt	0.56	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Antimony	5.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/12/2024	SKJACOBS	EPA 6020B
Boron	457	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Lithium	25.9	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/10/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	<0.10	mg/L	01/08/2024	KCWELLS	EPA 300.0
Chloride	115	mg/L	01/08/2024	KCWELLS	EPA 300.0
Sulfate	31.8	mg/L	01/08/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	696.2	mg/L	01/08/2024	TDHARRIS	SM 2540C
Radium 226	0.960	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	0.267	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.227	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	6.90	SU	01/04/2024	MDG/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:



Linda Williams - Manager Analytical Services

Validation date: 2/27/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

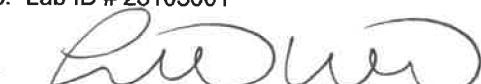
Sample # AF87785 **Location:** GW Well CCMGP-2 **Date:** 01/08/2024 **Sample Collector:** WJK/ML
Loc. Code CCMGP-2 **Time:** 14:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.3	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	37.8	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	227	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	8.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/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	650	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
Fluoride	<0.10	mg/L	01/10/2024	KCWELLS	EPA 300.0
Chloride	75.9	mg/L	01/10/2024	KCWELLS	EPA 300.0
Sulfate	615	mg/L	01/10/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1239	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	1.40	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	2.03	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.43	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	5.79	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: 2/27/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AF87786 **Location:** GW Well CCMGP-3 **Date:** 01/10/2024 **Sample Collector:** WJK/ML
Loc. Code CCMGP-3 **Time:** 09:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	13.1	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	25.1	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	1.3	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	88.0	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	13.7	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Lead	18.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Antimony	5.2	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	01/17/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	117	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	1.11	mg/L	01/18/2024	KCWELLS	EPA 300.0
Chloride	33.6	mg/L	01/18/2024	KCWELLS	EPA 300.0
Sulfate	423	mg/L	01/18/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	773.8	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	1.97	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	0.253	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.223	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	4.13	SU	01/10/2024	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: 2/27/24
Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

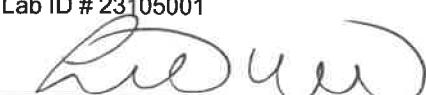
Sample # AF87787 **Location:** GW Well CCMGP-4 **Date:** 01/10/2024 **Sample Collector:** WJK/ML
Loc. Code CCMGP-4 **Time:** 10:20

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	438	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	200	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	6.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/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	01/23/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Boron	1230	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Lithium	10.2	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/12/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/22/2024	EUROFINS SAV	EPA 7470
Fluoride	<0.10	mg/L	01/18/2024	KCWELLS	EPA 300.0
Chloride	217	mg/L	01/18/2024	KCWELLS	EPA 300.0
Sulfate	25.5	mg/L	01/18/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	796.2	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	0.904	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	0.475	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.379	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	6.26	SU	01/10/2024	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: 2/27/24
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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

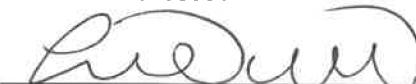
Sample # AF87788 **Location:** GW Well CCMGP-5 **Date:** 01/08/2024 **Sample Collector:** WJK/ML
Loc. Code CCMGP-5 **Time:** 13:31

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Barium	349	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Calcium	76.2	mg/L	01/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Cobalt	3.5	ug/L	01/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/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	15.8	ug/L	01/11/2024	SKJACOBS	EPA 6010D
Lithium	8.21	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
Fluoride	<0.10	mg/L	01/10/2024	KCWELLS	EPA 300.0
Chloride	26.3	mg/L	01/10/2024	KCWELLS	EPA 300.0
Sulfate	2.42	mg/L	01/10/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	331.2	mg/L	01/12/2024	SJBROWN	SM 2540C
Radium 226	2.00	pCi/L	01/24/2024	GEL	EPA 903.1 Mod
Radium 228	0.161	pCi/L	01/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.161	pCi/L	02/12/2024	SJLEVY	EPA 903.1 Mod
pH	6.52	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: 2/27/24

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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 # AF98792 Location: GW Well CCMGP-3 Date: 05/07/2024 Sample Collector: WJK/ML

Loc. Code CCMGP-3

Time: 10:50

Analysis	Result	Units	Test Date	Analyst	Method
Lead	31.7	ug/L	05/16/2024	SKJACOBS	EPA 6020B
pH	3.88	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:

Linda Williams - Manager Analytical Services

Validation date: 6/7/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
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:



Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
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:



Linda Williams - Manager Analytical Services

 Validation date: 8/2/24
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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

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	9.4	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Barium	79.7	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Beryllium	5.3	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Calcium	207	mg/L	06/27/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Cobalt	38.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Lead	29.8	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/20/2024	SKJACOBS	EPA 6020B
Antimony	5.6	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Boron	8840	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	8.38	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Fluoride	1.03	mg/L	06/17/2024		KCWELLS
Chloride	707	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	339	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1631	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.770	pCi/L	07/09/2024	GEL	EPA 903.1 Mod
Radium 228	4.98	pCi/L	07/02/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.75	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	3.98	SU	06/12/2024	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:

Linda Williams - Manager Analytical Services

Validation date: 9

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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 # AG01463 **Location:** GW Well CGYP-2 **Date:** 06/12/2024 **Sample Collector:** ZM/BB
Loc. Code CGYP-2 **Time:** 10:17

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	11.1	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Barium	15.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Beryllium	2.1	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Calcium	208	mg/L	06/27/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Cobalt	17.3	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Lead	15.6	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/20/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Boron	829	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	12.2	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Fluoride	0.96	mg/L	06/17/2024		KCWELLS
Chloride	45.7	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	787	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1240	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.387	pCi/L	07/09/2024	GEL	EPA 903.1 Mod
Radium 228	1.44	pCi/L	07/02/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.827	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	4.06	SU	06/12/2024	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:

and

Validation date: 8/2/24

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01464 Location: GW Well CGYP-2 Date: 06/12/2024 Sample Collector: ZM/BB

Loc. Code	CGYP-2	DUP		Time: 10:22	
Analysis		Result	Units	Test Date	Analyst
Arsenic		11.4	ug/L	06/27/2024	SKJACOBS
Barium		16.0	ug/L	06/27/2024	SKJACOBS
Beryllium		2.1	ug/L	06/27/2024	SKJACOBS
Calcium		210	mg/L	06/27/2024	SKJACOBS
Cadmium		<0.5	ug/L	06/27/2024	SKJACOBS
Cobalt		18.1	ug/L	06/27/2024	SKJACOBS
Chromium		<5.0	ug/L	06/27/2024	SKJACOBS
Lead		15.8	ug/L	06/27/2024	SKJACOBS
Selenium		<10.0	ug/L	06/20/2024	SKJACOBS
Antimony		<5.0	ug/L	06/27/2024	SKJACOBS
Thallium		<1.0	ug/L	06/27/2024	SKJACOBS
Boron		852	ug/L	06/19/2024	SKJACOBS
Lithium		12.7	ug/L	06/19/2024	SKJACOBS
Molybdenum		<5.0	ug/L	06/19/2024	SKJACOBS
Mercury		<0.2	ug/L	06/17/2024	EUROFINS SAV
Fluoride		0.94	mg/L	06/17/2024	KCWELLS
Chloride		43.7	mg/L	06/17/2024	KCWELLS
Sulfate		776	mg/L	06/17/2024	KCWELLS
Total Dissolved Solids		1114	mg/L	06/18/2024	KRMATHER
Radium 226		0.203	pCi/L	07/09/2024	GEL
Radium 228		1.66	pCi/L	07/02/2024	GEL
Radium 226/228 Combined Calculation		1.863	pCi/L	07/19/2024	SJLEVY
pH		***	SU	06/05/2024	ZDMCHENR

Comments:

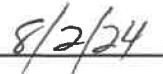
Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:


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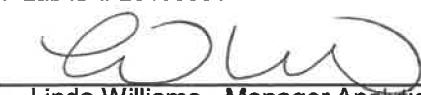
SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01465 Location: GW Well CGYP-3 Date: 06/13/2024 Sample Collector: ZM/BB
Loc. Code CGYP-3
Time: 10:09

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	6.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Barium	42.7	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Beryllium	11.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Calcium	418	mg/L	06/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Cobalt	54.4	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Lead	16.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Boron	12200	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	44.7	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/25/2024	EUROFINS SAV	EPA 7470
Fluoride	1.94	mg/L	06/17/2024	KCWELLS	EPA 300.0
Chloride	699	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	859	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	2489	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.308	pCi/L	07/15/2024	GEL	EPA 903.1 Mod
Radium 228	3.81	pCi/L	07/03/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.12	pCi/L	07/31/2024	SJLEVY	EPA 903.1 Mod
pH	4.25	SU	06/13/2024	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:



Linda Williams - Manager Analytical Services

Validation date:

8/2/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01466 Location: GW Well CGYP-4 Date: 06/12/2024 Sample Collector: ZM/BB
Loc. Code CGYP-4
Time: 09:22

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Barium	24.8	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Beryllium	8.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Calcium	209	mg/L	06/27/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Cobalt	27.4	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Lead	8.4	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/20/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Boron	4730	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	55.3	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Fluoride	1.50	mg/L	06/17/2024	KCWELLS	EPA 300.0
Chloride	307	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	497	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1176	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	1.01	pCi/L	07/09/2024	GEL	EPA 903.1 Mod
Radium 228	0.0223	pCi/L	07/02/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.0323	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	3.88	SU	06/12/2024	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:


Linda Williams - Manager Analytical Services

Validation date:

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01467 Location: GW Well CGYP-6 Date: 06/13/2024 Sample Collector: ZM/BB
Loc. Code CGYP-6
Time: 09:09

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Barium	87.6	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Calcium	297	mg/L	06/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Cobalt	7.4	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Boron	925	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	23.7	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/25/2024	EUROFINS SAV	EPA 7470
Fluoride	0.20	mg/L	06/17/2024	KCWELLS	EPA 300.0
Chloride	167	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	384	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1415	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.293	pCi/L	07/15/2024	GEL	EPA 903.1 Mod
Radium 228	0.823	pCi/L	07/03/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.12	pCi/L	07/31/2024	SJLEVY	EPA 903.1 Mod
pH	6.56	SU	06/13/2024	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:


Linda Williams - Manager Analytical Services

Validation date: 8/2/24
Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01468 Location: GW Well CGYP-7 Date: 06/12/2024 Sample Collector: ZM/BB
Loc. Code CGYP-7
Time: 12:30

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	15.3	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Barium	23.8	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Beryllium	5.1	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Calcium	327	mg/L	06/27/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Cobalt	52.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Lead	26.7	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/20/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Boron	8650	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	11.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Fluoride	1.08	mg/L	06/25/2024	KCWELLS	EPA 300.0
Chloride	558	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	712	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1734	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.689	pCi/L	07/09/2024	GEL	EPA 903.1 Mod
Radium 228	3.54	pCi/L	07/02/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.229	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	3.88	SU	06/12/2024	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:


Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01454 Location: GW Well CCMGP-1 Date: 06/12/2024 Sample Collector: ZM/BB
Loc. Code CCMGP-1
Time: 11:29

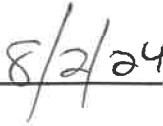
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Barium	373	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Calcium	178	mg/L	06/27/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/20/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Boron	864	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	33.2	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Fluoride	<0.10	mg/L	06/17/2024		EPA 300.0
Chloride	148	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	55.7	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	783.8	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.514	pCi/L	07/09/2024	GEL	EPA 903.1 Mod
Radium 228	2.44	pCi/L	07/02/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.954	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	6.91	SU	06/12/2024	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:


Linda Williams - Manager Analytical Services

Validation date:

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01455 Location: GW Well CCMGP-2 Date: 06/12/2024 Sample Collector: ZM/BB
Loc. Code CCMGP-2
Time: 14:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Barium	51.1	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Calcium	306	mg/L	06/27/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Cobalt	4.3	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Lead	4.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/20/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/27/2024	SKJACOBS	EPA 6020B
Boron	594	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/17/2024	EUROFINS SAV	EPA 7470
Fluoride	0.12	mg/L	06/17/2024	KCWELLS	EPA 300.0
Chloride	50.7	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	610	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1484	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	0.795	pCi/L	07/09/2024	GEL	EPA 903.1 Mod
Radium 228	1.05	pCi/L	07/02/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.845	pCi/L	07/19/2024	SJLEVY	EPA 903.1 Mod
pH	5.85	SU	06/12/2024	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:



Linda Williams - Manager Analytical Services

Validation date: 8/2/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

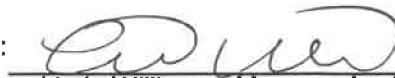
Sample # AG01456 **Location:** GW Well CCMGP-3 **Date:** 06/17/2024 **Sample Collector:** ZM/BB
Loc. Code CCMGP-3 **Time:** 08:51

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	18.1	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Barium	25.1	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Beryllium	2.0	ug/L	06/26/2024	SKJACOBS	EPA 6020B
Calcium	144	mg/L	06/26/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Cobalt	21.6	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2024	SKJACOBS	EPA 6020B
Lead	29.8	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Boron	167	ug/L	06/20/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/20/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/20/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/24/2024	EUROFINS SAV	EPA 7470
Fluoride	1.42	mg/L	06/25/2024	KCWELLS	EPA 300.0
Chloride	234	mg/L	06/25/2024	KCWELLS	EPA 300.0
Sulfate	516	mg/L	07/08/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	988.8	mg/L	06/20/2024	KRMATHER	SM 2540C
Radium 226	1.49	pCi/L	07/15/2024	GEL	EPA 903.1 Mod
Radium 228	4.23	pCi/L	07/03/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.72	pCi/L	07/31/2024	SJLEVY	EPA 903.1 Mod
pH	3.90	SU	06/17/2024	ZM/BB	

Comments:

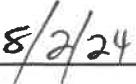
Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117 ; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:


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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG01457 Location: GW Well CCMGP-4 Date: 06/17/2024 Sample Collector: ZM/BB

Loc. Code CCMGP-4

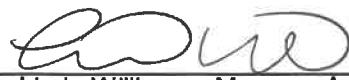
Time: 09:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.3	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Barium	359	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Calcium	228	mg/L	06/25/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Cobalt	7.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Antimony	6.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2024	SKJACOBS	EPA 6020B
Boron	1260	ug/L	06/20/2024	SKJACOBS	EPA 6010D
Lithium	15.5	ug/L	06/20/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/20/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/24/2024	EUROFINS SAV	EPA 7470
Fluoride	0.52	mg/L	06/25/2024	KCWELLS	EPA 300.0
Chloride	248	mg/L	06/25/2024	KCWELLS	EPA 300.0
Sulfate	29.2	mg/L	07/08/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1144	mg/L	06/20/2024	KRMATHER	SM 2540C
Radium 226	1.23	pCi/L	07/15/2024	GEL	EPA 903.1 Mod
Radium 228	1.14	pCi/L	07/03/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.37	pCi/L	07/31/2024	SJLEVY	EPA 903.1 Mod
pH	6.32	SU	06/17/2024	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:



Linda Williams - Manager Analytical Services

Validation date: 8/2/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG01458 Location: GW Well CCMGP-5 Date: 06/13/2024 Sample Collector: ZM/BB
Loc. Code CCMGP-5
Time: 14:02

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Barium	372	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Calcium	71.2	mg/L	06/19/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Cobalt	4.8	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/19/2024	SKJACOBS	EPA 6020B
Boron	15.5	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Lithium	9.32	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/19/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/25/2024	EUROFINS SAV	EPA 7470
Fluoride	<0.10	mg/L	06/17/2024	KCWELLS	EPA 300.0
Chloride	34.1	mg/L	06/17/2024	KCWELLS	EPA 300.0
Sulfate	2.79	mg/L	06/17/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	290.0	mg/L	06/18/2024	KRMATHER	SM 2540C
Radium 226	1.18	pCi/L	07/15/2024	GEL	EPA 903.1 Mod
Radium 228	0.345	pCi/L	07/03/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.53	pCi/L	07/31/2024	SJLEVY	EPA 903.1 Mod
pH	6.32	SU	06/13/2024	ZM/BB	

Comments:

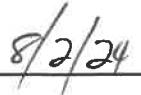
Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:


Authorized Signature Only- Not Valid Unless Signed



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 # AG10540 Location: GW Well CCMGP-3 Date: 09/11/2024 Sample Collector: MDG/AGP

Loc. Code CCMGP-3

Time: 11:53

Analysis	Result	Units	Test Date	Analyst	Method
Lead	22.9	ug/L	10/09/2024	SKJACOBS	EPA 6020B

Comments:

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

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date: 10/30/24

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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

Analysis	Result	Units	Test Date	Analyst	Method
Lead	5.7	ug/L	10/09/2024	SKJACOBS	EPA 6020B

Comments:

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

Analysis Validated:

John

Validation date: 10/30/24

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG10542 Location: GW Well CGYP-6 Date: 09/11/2024 Sample Collector: MDG/AGP
Loc. Code CGYP-6
Time: 15:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Barium	94.3	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Calcium	313	mg/L	10/09/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Cobalt	7.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	09/30/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Boron	1040	ug/L	10/08/2024	SKJACOBS	EPA 6010D
Lithium	19.1	ug/L	10/08/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	10/08/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	09/19/2024	EUROFINS SAV	EPA 7470
Fluoride	0.16	mg/L	09/16/2024	SLROBINS	EPA 300.0
Chloride	149	mg/L	09/17/2024	SLROBINS	EPA 300.0
Sulfate	498	mg/L	09/17/2024	SLROBINS	EPA 300.0
Total Dissolved Solids	1274	mg/L	09/13/2024	LCWILLIA	SM 2540C
Radium 226	1.58	pCi/L	10/11/2024	GEL	EPA 903.1 Mod
Radium 228	0.667	pCi/L	10/08/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.25	pCi/L	10/24/2024	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date: 10/30/24

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG10543 **Location:** GW Well CGYP-6 **Date:** 09/11/2024 **Sample Collector:** MDG/AGP

Loc. Code	CGYP-6	DUP	Time: 15:05
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Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Barium	95.2	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Calcium	313	mg/L	10/09/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Cobalt	7.1	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	09/30/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	10/09/2024	SKJACOBS	EPA 6020B
Boron	1060	ug/L	10/08/2024	SKJACOBS	EPA 6010D
Lithium	18.9	ug/L	10/08/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	10/08/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	09/19/2024	EUROFINS SAV	EPA 7470
Fluoride	0.16	mg/L	09/16/2024	SLROBINS	EPA 300.0
Chloride	150	mg/L	09/17/2024	SLROBINS	EPA 300.0
Sulfate	503	mg/L	09/17/2024	SLROBINS	EPA 300.0
Total Dissolved Solids	1315	mg/L	09/13/2024	LCWILLIA	SM 2540C
Radium 226	0.566	pCi/L	10/07/2024	GEL	EPA 903.1 Mod
Radium 228	0.685	pCi/L	10/08/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.25	pCi/L	10/24/2024	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated:



Linda Williams - Manager Analytical Services

 Validation date: 10/30/24
Authorized Signature Only- Not Valid Unless Signed

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/24/2024 5:33:34 PM Revision 1

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

680-245634-1

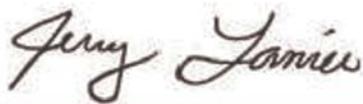
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Job Notes

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

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

Authorization



Generated
1/24/2024 5:33:34 PM
Revision 1

Authorized for release by
Jerry Lanier, Project Manager I
Jerry.Lanier@et.eurofinsus.com
(912)250-0281

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Case Narrative

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

Job ID: 680-245634-1

Job ID: 680-245634-1

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Job Narrative 680-245634-1

REVISION

The report being provided is a revision of the original report sent on 1/23/2024. The report (revision 1) is being revised due to client needing batch QC reported.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 1/18/2024 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 13.6°C

Metals

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

Sample Summary

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

Job ID: 680-245634-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-245634-1	AF87786	GW	01/10/24 09:13	01/18/24 15:10
680-245634-2	AF87787	GW	01/10/24 10:20	01/18/24 15:10
680-245634-3	AF87792	GW	01/10/24 11:38	01/18/24 15:10
680-245634-4	AF87795	GW	01/10/24 12:35	01/18/24 15:10
680-245634-5	AF87796	GW	01/10/24 14:16	01/18/24 15:10
680-245634-6	AF87784	GW	01/04/24 13:18	01/18/24 15:10
680-245634-7	AF87793	GW	01/04/24 11:33	01/18/24 15:10
680-245634-8	AF87794	GW	01/04/24 11:38	01/18/24 15:10
680-245634-9	AF87798	GW	01/04/24 10:10	01/18/24 15:10
680-245634-10	AF87799	GW	01/04/24 14:10	01/18/24 15:10
680-245634-11	AF87788	GW	01/08/24 13:31	01/18/24 15:10
680-245634-12	AF87785	GW	01/08/24 13:31	01/18/24 15:10
680-245634-13	AF87807	GW	01/08/24 10:48	01/18/24 15:10
680-245634-14	AF87768	GW	01/08/24 11:55	01/18/24 15:10
680-245634-15	AF87754	GW	01/10/24 15:16	01/18/24 15:10

Method Summary

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

Job ID: 680-245634-1

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

Protocol References:

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

Laboratory References:

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

Definitions/Glossary

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

Job ID: 680-245634-1

Qualifiers

Metals

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

Glossary

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

Detection Summary

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

Job ID: 680-245634-1

Client Sample ID: AF87786

Lab Sample ID: 680-245634-1

No Detections.

Client Sample ID: AF87787

Lab Sample ID: 680-245634-2

No Detections.

Client Sample ID: AF87792

Lab Sample ID: 680-245634-3

No Detections.

Client Sample ID: AF87795

Lab Sample ID: 680-245634-4

No Detections.

Client Sample ID: AF87796

Lab Sample ID: 680-245634-5

No Detections.

Client Sample ID: AF87784

Lab Sample ID: 680-245634-6

No Detections.

Client Sample ID: AF87793

Lab Sample ID: 680-245634-7

No Detections.

Client Sample ID: AF87794

Lab Sample ID: 680-245634-8

No Detections.

Client Sample ID: AF87798

Lab Sample ID: 680-245634-9

No Detections.

Client Sample ID: AF87799

Lab Sample ID: 680-245634-10

No Detections.

Client Sample ID: AF87788

Lab Sample ID: 680-245634-11

No Detections.

Client Sample ID: AF87785

Lab Sample ID: 680-245634-12

No Detections.

Client Sample ID: AF87807

Lab Sample ID: 680-245634-13

No Detections.

Client Sample ID: AF87768

Lab Sample ID: 680-245634-14

No Detections.

Client Sample ID: AF87754

Lab Sample ID: 680-245634-15

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87786

Date Collected: 01/10/24 09:13

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-1

Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:29	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87787

Lab Sample ID: 680-245634-2

Matrix: GW

Date Collected: 01/10/24 10:20

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:31	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87792

Lab Sample ID: 680-245634-3

Matrix: GW

Date Collected: 01/10/24 11:38

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 09:17	01/22/24 17:43	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87795

Lab Sample ID: 680-245634-4

Matrix: GW

Date Collected: 01/10/24 12:35

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 09:17	01/22/24 17:45	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87796

Lab Sample ID: 680-245634-5

Matrix: GW

Date Collected: 01/10/24 14:16

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 09:17	01/22/24 17:47	1

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87784

Lab Sample ID: 680-245634-6

Matrix: GW

Date Collected: 01/04/24 13:18

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:04	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87793

Lab Sample ID: 680-245634-7

Matrix: GW

Date Collected: 01/04/24 11:33

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:06	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87794

Lab Sample ID: 680-245634-8

Matrix: GW

Date Collected: 01/04/24 11:38

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:12	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87798

Lab Sample ID: 680-245634-9

Matrix: GW

Date Collected: 01/04/24 10:10

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:14	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87799

Date Collected: 01/04/24 14:10

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-10

Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:16	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87788

Date Collected: 01/08/24 13:31

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-11

Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:19	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87785

Lab Sample ID: 680-245634-12

Matrix: GW

Date Collected: 01/08/24 13:31

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:21	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87807

Lab Sample ID: 680-245634-13

Matrix: GW

Date Collected: 01/08/24 10:48

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:23	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87768

Date Collected: 01/08/24 11:55

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-14

Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:25	1

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Eurofins Savannah

Client Sample Results

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

Job ID: 680-245634-1

Client Sample ID: AF87754

Lab Sample ID: 680-245634-15

Matrix: GW

Date Collected: 01/10/24 15:16

Date Received: 01/18/24 15:10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 17:27	1

QC Sample Results

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

Job ID: 680-245634-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-818714/1-A

Matrix: Water

Analysis Batch: 818870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 818714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 08:40	01/22/24 15:22	1

Lab Sample ID: LCS 680-818714/2-A

Matrix: Water

Analysis Batch: 818870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 818714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.317		ug/L		93	80 - 120

Lab Sample ID: 680-245581-A-1-E MS

Matrix: Water

Analysis Batch: 818870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 818714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.200	U	1.00	0.9506		ug/L		95	80 - 120

Lab Sample ID: 680-245581-A-1-F MSD

Matrix: Water

Analysis Batch: 818870

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 818714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit
Mercury	0.200	U	1.00	0.9271		ug/L		93	80 - 120	3 20

Lab Sample ID: MB 680-818722/1-A

Matrix: Water

Analysis Batch: 819104

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 818722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/22/24 09:17	01/22/24 17:37	1

Lab Sample ID: LCS 680-818722/2-A

Matrix: Water

Analysis Batch: 819104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 818722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.500		ug/L		100	80 - 120

Lab Sample ID: 752-15667-K-1-H MS

Matrix: Water

Analysis Batch: 819104

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 818722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.200	U	1.00	0.8392		ug/L		84	80 - 120

Lab Sample ID: 752-15667-K-1-I MSD

Matrix: Water

Analysis Batch: 819104

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 818722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit
Mercury	0.200	U	1.00	0.8391		ug/L		84	80 - 120	0 20

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QC Association Summary

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

Job ID: 680-245634-1

Metals

Prep Batch: 818714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245634-1	AF87786	Total/NA	GW	7470A	1
680-245634-2	AF87787	Total/NA	GW	7470A	2
680-245634-6	AF87784	Total/NA	GW	7470A	3
680-245634-7	AF87793	Total/NA	GW	7470A	4
680-245634-8	AF87794	Total/NA	GW	7470A	5
680-245634-9	AF87798	Total/NA	GW	7470A	6
680-245634-10	AF87799	Total/NA	GW	7470A	7
680-245634-11	AF87788	Total/NA	GW	7470A	8
680-245634-12	AF87785	Total/NA	GW	7470A	9
680-245634-13	AF87807	Total/NA	GW	7470A	10
680-245634-14	AF87768	Total/NA	GW	7470A	11
680-245634-15	AF87754	Total/NA	GW	7470A	12
MB 680-818714/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-818714/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-245581-A-1-E MS	Matrix Spike	Total/NA	Water	7470A	
680-245581-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 818722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245634-3	AF87792	Total/NA	GW	7470A	13
680-245634-4	AF87795	Total/NA	GW	7470A	
680-245634-5	AF87796	Total/NA	GW	7470A	
MB 680-818722/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-818722/2-A	Lab Control Sample	Total/NA	Water	7470A	
752-15667-K-1-H MS	Matrix Spike	Total/NA	Water	7470A	
752-15667-K-1-I MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	14

Analysis Batch: 818870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-818714/1-A	Method Blank	Total/NA	Water	7470A	818714
LCS 680-818714/2-A	Lab Control Sample	Total/NA	Water	7470A	818714
680-245581-A-1-E MS	Matrix Spike	Total/NA	Water	7470A	818714
680-245581-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	818714

Analysis Batch: 819104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245634-1	AF87786	Total/NA	GW	7470A	818714
680-245634-2	AF87787	Total/NA	GW	7470A	818714
680-245634-3	AF87792	Total/NA	GW	7470A	818722
680-245634-4	AF87795	Total/NA	GW	7470A	818722
680-245634-5	AF87796	Total/NA	GW	7470A	818722
680-245634-6	AF87784	Total/NA	GW	7470A	818714
680-245634-7	AF87793	Total/NA	GW	7470A	818714
680-245634-8	AF87794	Total/NA	GW	7470A	818714
680-245634-9	AF87798	Total/NA	GW	7470A	818714
680-245634-10	AF87799	Total/NA	GW	7470A	818714
680-245634-11	AF87788	Total/NA	GW	7470A	818714
680-245634-12	AF87785	Total/NA	GW	7470A	818714
680-245634-13	AF87807	Total/NA	GW	7470A	818714
680-245634-14	AF87768	Total/NA	GW	7470A	818714
680-245634-15	AF87754	Total/NA	GW	7470A	818714

Eurofins Savannah

QC Association Summary

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

Job ID: 680-245634-1

Metals (Continued)

Analysis Batch: 819104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-818722/1-A	Method Blank	Total/NA	Water	7470A	818722
LCS 680-818722/2-A	Lab Control Sample	Total/NA	Water	7470A	818722
752-15667-K-1-H MS	Matrix Spike	Total/NA	Water	7470A	818722
752-15667-K-1-I MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	818722

Lab Chronicle

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

Job ID: 680-245634-1

Client Sample ID: AF87786

Date Collected: 01/10/24 09:13

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-1

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:29

Client Sample ID: AF87787

Date Collected: 01/10/24 10:20

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-2

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:31

Client Sample ID: AF87792

Date Collected: 01/10/24 11:38

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-3

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818722	DW	EET SAV	01/22/24 09:17
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:43

Client Sample ID: AF87795

Date Collected: 01/10/24 12:35

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-4

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818722	DW	EET SAV	01/22/24 09:17
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:45

Client Sample ID: AF87796

Date Collected: 01/10/24 14:16

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-5

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818722	DW	EET SAV	01/22/24 09:17
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:47

Client Sample ID: AF87784

Date Collected: 01/04/24 13:18

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-6

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:04

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-245634-1

Client Sample ID: AF87793

Date Collected: 01/04/24 11:33

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-7

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:06

Client Sample ID: AF87794

Date Collected: 01/04/24 11:38

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-8

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:12

Client Sample ID: AF87798

Date Collected: 01/04/24 10:10

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-9

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:14

Client Sample ID: AF87799

Date Collected: 01/04/24 14:10

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-10

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:16

Client Sample ID: AF87788

Date Collected: 01/08/24 13:31

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-11

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:19

Client Sample ID: AF87785

Date Collected: 01/08/24 13:31

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-12

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:21

Eurofins Savannah

Lab Chronicle

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

Job ID: 680-245634-1

Client Sample ID: AF87807

Date Collected: 01/08/24 10:48

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-13

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:23

Client Sample ID: AF87768

Date Collected: 01/08/24 11:55

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-14

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:25

Client Sample ID: AF87754

Date Collected: 01/10/24 15:16

Date Received: 01/18/24 15:10

Lab Sample ID: 680-245634-15

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			818714	DW	EET SAV	01/22/24 08:40
Total/NA	Analysis	7470A		1	819104	DW	EET SAV	01/22/24 17:27

Laboratory References:

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

Chain of Custody

santee cooper
 Santee Cooper
 One Riverwood Drive
 Moncks Corner, SC 29461
 Phone: (843)761-3000 Ext. 5148
 Fax: (843)761-4175

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA.WILLIAMS @santeecoop.com

125915 / JMO2 - 09.G01-1 / 36500

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	
AF87786	CCMGP-3	1/10/24	0913	WJK ML	1	P	G	GN	2	HG-7471 RL ≤ 0.2 ug/L	X
87	OCMGP-4		1020								
92	CGYP-1		1138								
95	CGYP-3		1235								
96	CGYP-4		1416								
AF87784	CCMGP-1	1/4/24	1318	MDG BB							
93	CGYP-2		1133								
94	CGYP-2 DUP		1138								
98	CGYP-6		1010								
99	CGYP-7		1410								



680-245634 Chain of Custody

01/16/2024,

Relinquished by:	Employee#:	Date	Time	Received by:	Employee #:	Date	Time
Sherly	35594	1/16/23	1100				
Relinquished by:	Employee#:	Date	Time	Received by:	Employee #:	Date	Time

Sample Receiving (Internal Use Only)
 TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#: 13.6/13.6

Date/Time/Init for preservative: 1/19/24 1510

☐ METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Tran. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> Monitor
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TP04	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dissolved Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	<input type="checkbox"/> DFT
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> NPDES	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Sulfates	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Tran. Oil Qual.
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> HGI	<input type="checkbox"/> As	<input type="checkbox"/> Monitor
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Chlorides	<input type="checkbox"/> Finess	<input type="checkbox"/> % Size	<input type="checkbox"/> Color
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Particle Size	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> T	<input type="checkbox"/> Acidity
				<input type="checkbox"/> PCB	<input type="checkbox"/> Sulfur			<input type="checkbox"/> Dissolved Strength

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

Preservative code: 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody



Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4758

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA-WILLIAMS @santeecoop.com

1 / 1

125915 / JMD2-09-G01.1 / 36500

Yes No

No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Henry	55594	1/16/24	1100				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
				C. Mine		1/18/24	1510

Sample Receiving (Internal Use Only)
TEMP (°C): _____ **Initial:** _____

Correct pH: Yes No

Preservative Lot#:

13.6/13.6

Date/Time/Init for preservative:

Metals (all)			Nutrients	Misc.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb						Trans. Oil Quality
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se		<input type="checkbox"/> TOC				*Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn		<input type="checkbox"/> BTEX				Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr		<input type="checkbox"/> Naphthalene				Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti		<input type="checkbox"/> THM/HAA				Osmotic Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl		<input type="checkbox"/> VOC				BTI
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V		<input type="checkbox"/> Oil & Grease				Desalinated Grains
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn		<input type="checkbox"/> E. Coli				Plasticity
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg		<input type="checkbox"/> Total Coliform				Metals in oil (As, Pb, Cu, Ni, Fe)
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI		<input type="checkbox"/> pH				IR
				<input type="checkbox"/> Dissolved As				EN
				<input type="checkbox"/> Dissolved Fe				GO/ER
				<input type="checkbox"/> Rad 226				
				<input type="checkbox"/> Rad 228				
				<input type="checkbox"/> PCB				
					<input type="checkbox"/> Wallboard			
					<input type="checkbox"/> Gypsum (all below)			
					<input type="checkbox"/> AIM			
					<input type="checkbox"/> TOC			
					<input type="checkbox"/> Total metals			
					<input type="checkbox"/> Soluble Metals			
					<input type="checkbox"/> Purity (CaSO4)			
					<input type="checkbox"/> % Moisture			
					<input type="checkbox"/> Sulfites			
					<input type="checkbox"/> pH			
					<input type="checkbox"/> Chlorides			
					<input type="checkbox"/> Particle Size			
					<input type="checkbox"/> Sulfur			
						<input type="checkbox"/> Ultimate		
						<input type="checkbox"/> % Moisture		
						<input type="checkbox"/> Ash		
						<input type="checkbox"/> Sulfur		
						<input type="checkbox"/> BTUs		
						<input type="checkbox"/> Volatile Matter		
						<input type="checkbox"/> CHN		
						Other Tests:		
						<input type="checkbox"/> XRF Scan		
						<input type="checkbox"/> HGI		
						<input type="checkbox"/> Fineness		
						<input type="checkbox"/> Particulate Matter		
							NPDES	
							<input type="checkbox"/> Oil & Grease	
							<input type="checkbox"/> As	
							<input type="checkbox"/> TSS	

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

Preservative code- 1=<4°C 2=HNO₃ 3=H₂SO₄ 4=HCl 5=Na₂S₂O₃ 6=Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-245634-1

Login Number: 245634

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question

Answer

Comment

Radioactivity wasn't checked or is </= background as measured by a survey meter.

N/A

The cooler's custody seal, if present, is intact.

True

Sample custody seals, if present, are intact.

True

The cooler or samples do not appear to have been compromised or tampered with.

True

Samples were received on ice.

True

Cooler Temperature is acceptable.

True

Cooler Temperature is recorded.

True

COC is present.

True

COC is filled out in ink and legible.

True

COC is filled out with all pertinent information.

True

Is the Field Sampler's name present on COC?

True

There are no discrepancies between the containers received and the COC.

True

Samples are received within Holding Time (excluding tests with immediate HTs)

True

Sample containers have legible labels.

True

Containers are not broken or leaking.

True

Sample collection date/times are provided.

True

Appropriate sample containers are used.

True

Sample bottles are completely filled.

True

Sample Preservation Verified.

N/A

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

True

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

N/A

Multiphasic samples are not present.

True

Samples do not require splitting or compositing.

True

Residual Chlorine Checked.

N/A

Accreditation/Certification Summary

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

Job ID: 680-245634-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24

1
2
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14

January 25, 2024

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

Re: ABS Lab Analytical
Work Order: 651811

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,

Max Gloth for
Julie Robinson
Project Manager

Purchase Order: 398684-125915/JM02.09.G01.1/36
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: 651811 GEL Work Order: 651811

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 25, 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:	AF87786	Project:	SOOP00119
Sample ID:	651811001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JAN-24 09:13		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.253	+/-1.06	1.93	3.00	pCi/L			JE1	01/23/24	1234	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.97	+/-0.751	0.548	1.00	pCi/L			LXP1	01/24/24	0905	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test						Result	Nominal	Recovery%	Acceptable Limits			
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								85.7	(15%-125%)			

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: January 25, 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:	AF87787	Project:	SOOP00119
Sample ID:	651811002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JAN-24 10:20		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.475	+/-0.953	1.68	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.904	+/-0.519	0.489	1.00	pCi/L			LXP1	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test			Result			Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"							87	(15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: January 25, 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:	AF87792	Project:	SOOP00119
Sample ID:	651811003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JAN-24 11:38		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.34	+/-1.22	1.60	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.32	+/-0.571	0.422	1.00	pCi/L			LXPI	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result		Nominal	Recovery%	Acceptable Limits			
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"									84.2	(15%-125%)		

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87795	Project:	SOOP00119
Sample ID:	651811004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JAN-24 12:35		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.76	+/-1.35	1.97	3.00	pCi/L			JE1	01/23/24	1234	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.589	+/-0.413	0.405	1.00	pCi/L			LXPI	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result	Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								84.5 (15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87796	Project:	SOOP00119
Sample ID:	651811005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JAN-24 14:16		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.18	+/-1.03	1.45	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.88	+/-0.780	0.689	1.00	pCi/L			LXPI	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result		Nominal	Recovery%	Acceptable Limits			
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"									86.9	(15%-125%)		

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87784	Project:	SOOP00119
Sample ID:	651811006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JAN-24 13:18		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.267	+/-0.651	1.20	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.960	+/-0.489	0.362	1.00	pCi/L			LXP1	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test						Result	Nominal	Recovery%	Acceptable Limits			
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								79.3	(15%-125%)			

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87793	Project:	SOOP00119
Sample ID:	651811007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JAN-24 11:33		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.14	+/-1.02	1.41	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.687	+/-0.410	0.350	1.00	pCi/L			LXPI	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result		Nominal	Recovery%	Acceptable Limits			
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"									81.9	(15%-125%)		

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87794	Project:	SOOP00119
Sample ID:	651811008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JAN-24 11:38		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.84	+/-0.901	1.22	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.904	+/-0.500	0.494	1.00	pCi/L			LXPI	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result	Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								83.3 (15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87798	Project:	SOOP00119
Sample ID:	651811009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JAN-24 10:10		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.872	+/-0.824	1.33	3.00	pCi/L			JE1	01/23/24	1106	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.410	+/-0.424	0.664	1.00	pCi/L			LXPI	01/24/24	0938	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test				Result		Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								84.9 (15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87799	Project:	SOOP00119
Sample ID:	651811010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JAN-24 14:10		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.97	+/-1.62	2.04	3.00	pCi/L			JE1	01/23/24	1234	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.734	+/-0.464	0.506	1.00	pCi/L			LXPI	01/24/24	1013	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result	Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								(84.9 - 115.0%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87788	Project:	SOOP00119
Sample ID:	651811011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	08-JAN-24 13:31		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.161	+/-1.13	2.04	3.00	pCi/L			JE1	01/23/24	1107	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.00	+/-0.735	0.469	1.00	pCi/L			LXPI	01/24/24	1013	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test			Result			Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"							84.1	(15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87785	Project:	SOOP00119
Sample ID:	651811012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	08-JAN-24 13:31		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.03	+/-1.03	1.46	3.00	pCi/L			JE1	01/23/24	1107	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.40	+/-0.680	0.643	1.00	pCi/L			LXPI	01/24/24	1013	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result		Nominal	Recovery%	Acceptable Limits			
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"									77.3	(15%-125%)		

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87807	Project:	SOOP00119
Sample ID:	651811013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	08-JAN-24 10:48		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.24	+/-0.879	1.36	3.00	pCi/L			JE1	01/23/24	1107	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.612	+/-0.463	0.572	1.00	pCi/L			LXPI	01/24/24	1013	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test				Result		Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								86.6 (15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87768	Project:	SOOP00119
Sample ID:	651811014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	08-JAN-24 11:55		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.22	+/-0.865	1.33	3.00	pCi/L			JE1	01/23/24	1107	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.278	+/-0.278	0.391	1.00	pCi/L			LXPI	01/24/24	1013	2553147	2
The following Analytical Methods were performed:													
Method	Description								Analyst Comments				
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test				Result		Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								88.6 (15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Report Date: January 25, 2024

Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID:	AF87754	Project:	SOOP00119
Sample ID:	651811015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JAN-24 15:16		
Receive Date:	12-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.81	+/-1.14	1.75	3.00	pCi/L			JE1	01/23/24	1107	2553124	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.838	+/-0.445	0.393	1.00	pCi/L			LXPI	01/24/24	1013	2553147	2
The following Analytical Methods were performed:													
Method	Description						Analyst Comments						
1	EPA 904.0/SW846 9320 Modified												
2	EPA 903.1 Modified												
Surrogate/Tracer Recovery	Test					Result	Nominal	Recovery%	Acceptable Limits				
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"								81.7 (15%-125%)				

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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QC Summary

Report Date: January 25, 2024

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Santee Cooper
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Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 651811

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2553124										
Radium-228	QC1205623056	651811001	DUP								
				U	0.253	U	1.71	pCi/L	N/A	JE1	01/23/24 12:33
				Uncertainty	+/-0.06		+/-1.31				
Radium-228	QC1205623057	LCS									
				73.5			71.3	pCi/L	97.1	(75%-125%)	01/23/24 11:07
				Uncertainty			+/-3.83				
Radium-228	QC1205623055	MB									
				U	0.385		pCi/L				
				Uncertainty	+/-0.634						01/23/24 11:07
Rad Ra-226											
Batch	2553147										
Radium-226	QC1205623115	651811001	DUP								
				U	1.97		1.83	pCi/L	7.52	(0% - 100%)	LXP1
				Uncertainty	+/-0.751		+/-0.719				01/24/24 10:13
Radium-226	QC1205623117	LCS									
				26.9			26.9	pCi/L	100	(75%-125%)	01/24/24 10:47
				Uncertainty			+/-2.51				
Radium-226	QC1205623114	MB									
				U	0.171		pCi/L				
				Uncertainty	+/-0.334						01/24/24 10:13
Radium-226	QC1205623116	MS									
				U	136		117	pCi/L	84.5	(75%-125%)	01/24/24 10:47
				Uncertainty	+/-0.751		+/-12.1				

Notes:

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

The Qualifiers in this report are defined as follows:

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

J Value is estimated

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

H Analytical holding time was exceeded

< Result is less than value reported

QC Summary

Workorder: 651811

Page 2 of 2

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

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

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

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

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

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

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 651811

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2553124

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
651811001	AF87786
651811002	AF87787
651811003	AF87792
651811004	AF87795
651811005	AF87796
651811006	AF87784
651811007	AF87793
651811008	AF87794
651811009	AF87798
651811010	AF87799
651811011	AF87788
651811012	AF87785
651811013	AF87807
651811014	AF87768
651811015	AF87754
1205623055	Method Blank (MB)
1205623056	651811001(AF87786) Sample Duplicate (DUP)
1205623057	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts

Samples 1205623056 (AF87786DUP) and 651811001 (AF87786) were recounted due to high relative percent difference/relative error ratio. The recounts are reported. Samples 651811004 (AF87795) and 651811010 (AF87799) were recounted due to a suspected false positive. The recounts are reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2553147

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
651811001	AF87786
651811002	AF87787
651811003	AF87792
651811004	AF87795
651811005	AF87796
651811006	AF87784
651811007	AF87793
651811008	AF87794
651811009	AF87798
651811010	AF87799
651811011	AF87788
651811012	AF87785
651811013	AF87807
651811014	AF87768
651811015	AF87754
1205623114	Method Blank (MB)
1205623115	651811001(AF87786) Sample Duplicate (DUP)
1205623116	651811001(AF87786) Matrix Spike (MS)
1205623117	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1205623116 (AF87786MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Chain of Custody

651811



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA WILLIAMS @santeecoop.com

 / /

125915 / JM02-07-GYI-1 / 36500

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	RAID 226	RAID 228
AF87786	CCMGP - 3	1/10/24	0913	WJK ML	-	P	G	GW	2		-	-
87	CCMGP - 4		1020									
92	CGYP - 1		1138									
95	CGYP - 3		1235									
96	CGYP - 4		1416									
AF87784	CCMGP - 1	1/4/24	1318	WDG BB								
93	CGYP - 2		1133									
94	CGYP - 2 DUP		1138									
98	CGYP - 6		1010									
99	CGYP - 7		1410									

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>JW</i>	36851	1/12/24	0520	<i>JW</i>	GEL	1/12/24	0520
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>JW</i>	GEL	1/12/24	1320	<i>In process at GEL</i>		1/12/24	1330

Sample Receiving (Internal Use Only)

TEMP (°C): _____ Initial: _____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

□ METALS (all)			Nutrients	MISC.	Gypsum	Coal	Flyash	Oil
<input type="checkbox"/> Ag	<input type="checkbox"/> Cu	<input type="checkbox"/> Sb	<input type="checkbox"/> TOC	<input type="checkbox"/> BTEX	<input type="checkbox"/> Wallboard	<input type="checkbox"/> Ultimate	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Trans. Oil Qual.
<input type="checkbox"/> Al	<input type="checkbox"/> Fe	<input type="checkbox"/> Se	<input type="checkbox"/> DOC	<input type="checkbox"/> Naphthalene	<input type="checkbox"/> Gypsum(all below)	<input type="checkbox"/> % Moisture	<input type="checkbox"/> LOI	<input type="checkbox"/> %Moisture
<input type="checkbox"/> As	<input type="checkbox"/> K	<input type="checkbox"/> Sn	<input type="checkbox"/> TP/TPO4	<input type="checkbox"/> THM/HAA	<input type="checkbox"/> AIM	<input type="checkbox"/> Ash	<input type="checkbox"/> % Carbon	<input type="checkbox"/> Color
<input type="checkbox"/> B	<input type="checkbox"/> Li	<input type="checkbox"/> Sr	<input type="checkbox"/> NH3-N	<input type="checkbox"/> VOC	<input type="checkbox"/> TOC	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Mineral	<input type="checkbox"/> Acidity
<input type="checkbox"/> Ba	<input type="checkbox"/> Mg	<input type="checkbox"/> Ti	<input type="checkbox"/> F	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Total metals	<input type="checkbox"/> BTUs	<input type="checkbox"/> Analysis	<input type="checkbox"/> Dielectric Strength
<input type="checkbox"/> Be	<input type="checkbox"/> Mn	<input type="checkbox"/> Tl	<input type="checkbox"/> Cl	<input type="checkbox"/> E. Coli	<input type="checkbox"/> Soluble Metals	<input type="checkbox"/> Volatile Matter	<input type="checkbox"/> Sieve	<input type="checkbox"/> IFT
<input type="checkbox"/> Ca	<input type="checkbox"/> Mo	<input type="checkbox"/> V	<input type="checkbox"/> NO2	<input type="checkbox"/> Total Coliform	<input type="checkbox"/> Purity (CaSO4)	<input type="checkbox"/> CHN	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Dissolved Gases
<input type="checkbox"/> Cd	<input type="checkbox"/> Na	<input type="checkbox"/> Zn	<input type="checkbox"/> Br	<input type="checkbox"/> pH	<input type="checkbox"/> % Moisture	<input type="checkbox"/> Other Tests:	<input type="checkbox"/> XRF Scan	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Co	<input type="checkbox"/> Ni	<input type="checkbox"/> Hg	<input type="checkbox"/> NO3	<input type="checkbox"/> Dissolved As	<input type="checkbox"/> Sulfites	<input type="checkbox"/> HGI	<input type="checkbox"/> %Sieve	<input type="checkbox"/> Flashpoint
<input type="checkbox"/> Cr	<input type="checkbox"/> Pb	<input type="checkbox"/> CrVI	<input type="checkbox"/> SO4	<input type="checkbox"/> Dissolved Fe	<input type="checkbox"/> pH	<input type="checkbox"/> Fineness	<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Metals in oil
				<input type="checkbox"/> Rad 226	<input type="checkbox"/> Chlorides	<input type="checkbox"/> Particle Size	<input type="checkbox"/> As	<input type="checkbox"/> (As,Cd,Cr,Ni,Pb Hg)
				<input type="checkbox"/> Rad 228	<input type="checkbox"/> Sulfur	<input type="checkbox"/> Particulate Matter	<input type="checkbox"/> TSS	<input type="checkbox"/> TX
				<input type="checkbox"/> PCB				<input type="checkbox"/> 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,

Page 22 of 25 SDC 65 F811 ash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O3 6=Other (Specify)

Chain of Custody



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

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA WILLIAMS lsanfee@cooper.com

i i

125715 / 0602-09.09.17 / 36500

Yes No

Analysis Group

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>JH</i>	36851	1/12/24	0600	<i>JL</i>	GEL	1/12/24	0600
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
<i>JL</i>	<i>GEL</i>	<i>1-12-24</i>	<i>1530</i>	<i>Thiyasathu</i>	<i>FIEL</i>	<i>1-12-24</i>	<i>1520</i>
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

SAMPLE RECEIPT & REVIEW FORM

Client: <i>SDG</i>	SDG/AR/COC/Work Order: <i>651811</i>	<i>TSR</i>																																																																						
Received By: Thyasia Tatum	Date Received: <i>1-12-24</i>																																																																							
		<input type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Other																																																																						
Carrier and Tracking Number																																																																								
Suspected Hazard Information	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.																																																																						
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/> Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																																																							
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/> COC indication of radioactive symbols on containers equal client designation.																																																																							
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM / mR/Hr Classified as: Rad 1 <input type="checkbox"/> Rad 2 <input type="checkbox"/> Rad 3																																																																							
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/> COC indication of hazard labels on containers equal client designation.																																																																							
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/> If B or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:																																																																							
<table border="1"> <thead> <tr> <th>Sample Receipt Criteria</th> <th><input type="checkbox"/> Yes</th> <th><input type="checkbox"/> NA</th> <th><input checked="" type="checkbox"/> No</th> <th>Comments/Qualifiers (Required for Non-Conforming Items)</th> </tr> </thead> <tbody> <tr> <td>1 Shipping containers received intact and sealed?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Circle Applicable: Seals broken Damaged container Leaking container Other (describe)</td> </tr> <tr> <td>2 Chain of custody documents included with shipment?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Circle Applicable: Client contacted and provided COC COC created upon receipt</td> </tr> <tr> <td>3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Preservation Method: Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry ice <input type="checkbox"/> None <input type="checkbox"/> Other: *all temperatures are recorded in Celsius TEMP: <i>15</i></td> </tr> <tr> <td>4 Daily check performed and passed on IR temperature gun?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):</td> </tr> <tr> <td>5 Sample containers intact and sealed?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Circle Applicable: Seals broken Damaged container Leaking container Other (describe)</td> </tr> <tr> <td>6 Samples requiring chemical preservation at proper pH?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Sample ID's and Containers Affected: If Preservation added, Lot#:</td> </tr> <tr> <td>7 Do any samples require Volatile Analysis?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected:</td> </tr> <tr> <td>8 Samples received within holding time?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>ID's and tests affected:</td> </tr> <tr> <td>9 Sample ID's on COC match ID's on bottles?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>ID's and containers affected:</td> </tr> <tr> <td>10 Date & time on COC match date & time on bottles?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)</td> </tr> <tr> <td>11 Number of containers received match number indicated on COC?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Circle Applicable: No container count on COC Other (describe)</td> </tr> <tr> <td>12 Are sample containers identifiable as GEL provided by use of GEL labels?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>13 COC form is properly signed in relinquished/received sections?</td> <td colspan="3"><input checked="" type="checkbox"/></td> <td>Circle Applicable: Not relinquished Other (describe)</td> </tr> </tbody> </table>			Sample Receipt Criteria	<input type="checkbox"/> Yes	<input type="checkbox"/> NA	<input checked="" type="checkbox"/> No	Comments/Qualifiers (Required for Non-Conforming Items)	1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt	3 Samples requiring cold preservation within (0 ≤ 6 deg. 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13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)																																																																				
Comments (Use Continuation Form if needed):																																																																								

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

List of current GEL Certifications as of 25 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
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
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Appendix C – Well Construction Record



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name: _____ (last) _____ (first) Address: _____ City: _____ State: _____ Zip: _____ Telephone: Work: _____ Home: _____		7. PERMIT NUMBER: 8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement	
2. LOCATION OF WELL: COUNTY: Berkeley Name: Cross Generating Station Street Address: 553 Cross Station Rd. City: Pineville Zip: 29468 Latitude: _____ Longitude: _____		9. WELL DEPTH (completed) _____ ft. Date Started: 5-20-24 Date Completed: 5-20-24 10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam.: 2" _____ Type: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 _____ in. to 10 _____ ft. depth _____ in. to _____ ft. depth Height <u>Above</u> <u>Below</u> Surface 3 _____ ft. Weight _____ lb./ft. Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: CGYP-6		11. SCREEN: Type: PVC Diam.: 2" Slot/Gauge: .010 Length: 10' Set Between: 10 _____ ft. and 20 _____ ft. _____ ft. and _____ ft. Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No 12. STATIC WATER LEVEL 6 _____ ft. below land surface after 24 hours	
4. ABANDONMENT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.		13. PUMPING LEVEL Below Land Surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield: _____	
Formation Description sand orange yellow gray sand gray sandy clay		*Thickness of Stratum 5 5 10	Depth to Bottom of Stratum 5 10 20
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)			
5. REMARKS: Bentonite seal from 6-8'			
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other		19. WELL DRILLER: Scott Hunt, Jr CERT. NO.: 2313 Address: (Print) SAEDACCO 9088 Northfield Drive Fort Mill, SC 29707 Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: <u>Richy Lemire</u> Date: 5/27/2024 Well Driller If D Level Driller, provide supervising driller's name: Richy Lemire	