



Prepared for
Crisp County Power Commission
202 S. 7th Street
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2024 ANNUAL GROUNDWATER MONITORING REPORT

**CRISP COUNTY POWER COMMISSION
PLANT CRISP ASH POND
Warwick, Georgia**

Prepared by
Geosyntec 
consultants

engineers | scientists | innovators

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January 2025

CERTIFICATION BY QUALIFIED PROFESSIONAL ENGINEER

I certify that this Annual Groundwater Monitoring Report was prepared by me or under my direct supervision and meets the requirements of Section 40 C.F.R. §257 of the Federal Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule (40 C.F.R. §257) and the Georgia EPD Solid Waste Management Rule for Coal Combustion Residuals (391-3-4-.10). The Annual Groundwater Monitoring Report includes statistical methods and narrative description appropriate for evaluating the groundwater monitoring data for the CCR management area.

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CERTIFICATION BY QUALIFIED GROUNDWATER SCIENTIST

I certify that this Annual Groundwater Monitoring Report meets the requirements of Section 40 C.F.R. §257 of the Federal Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule (40 C.F.R. §257) and the Georgia EPD Solid Waste Management Rule for Coal Combustion Residuals (391-3-4-.10). The Annual Groundwater Monitoring Report includes statistical methods and narrative description appropriate for evaluating the groundwater monitoring data for the CCR management area.

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LIST OF ACRONYMS AND ABBREVIATIONS

CCPC	Crisp County Power Commission
CCR	Coal Combustion Residuals
C.F.R.	Code of Federal Regulations
cm/sec	Centimeters per Second
DNR	Department of Natural Resources
DO	Dissolved Oxygen
ft/day	Feet per Day
ft/ft	Feet per Foot
ft/year	Feet per Year
GA EPD	Georgia Environmental Protection Division
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
i	horizontal hydraulic gradient
K _h	Horizontal Hydraulic Conductivity
LSADS	Laboratory Services and Applied Science Division
MCL	Maximum Contaminant Level
mg/L	Milligram per Liter
MW	Megawatt
n _e	effective porosity
NTU	Nephelometric Turbidity Units
ORP	Oxidation Reduction Potential
PE	Professional Engineer
PG	Professional Geologist
PL	Prediction Limit
QA/QC	Quality Assurance/Quality Control
SESD	Science and Ecosystem Support Division
SOP	Standard Operating Procedure
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
SU	Standard Unit
TDS	Total Dissolved Solids
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit

EXECUTIVE SUMMARY

Crisp County Power Commission (CCPC) has been monitoring the groundwater quality at the Plant Crisp Ash Pond (ash pond) in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule [40 Code of Federal Regulations (C.F.R.) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rule for CCR (391-3-4-.10). The timeline and status of the monitoring program and the relevant findings and conclusions derived for this reporting period (January through December 2024) are summarized as follows.

- In compliance with 40 C.F.R. §257.94, a groundwater detection monitoring program was conducted between February and September 2017.
- In compliance with 40 C.F.R. §257.95(a), CCPC initiated an assessment monitoring program in March 2018. The ash pond has been monitored under the assessment monitoring program from March 2018 through the current reporting period.
- Pursuant to 40 C.F.R. §257.95 and GA EPD Rule 391-3-4-.10(6), Statistically Significant Increases above background levels were identified for the Appendix III¹ constituents set forth below where concentrations of Appendix III constituents in the downgradient monitoring wells are statistically higher than the concentrations of background wells. No values exceeded regulatory levels or maximum contaminant levels. No Statistically Significant Levels (SSLs) above the Groundwater Protection Standards were identified for Appendix IV² constituents during the reporting period. A summary of statistically significant increases (SSIs) of Appendix III and SSLs³ of Appendix IV parameters is provided in the table below⁴.

Appendix III Parameters	April 2024	October 2024
<i>Calcium</i>	<i>MW-D2, MW-D3</i>	<i>MW-D1, MW-D2, MW-D3</i>
<i>Fluoride</i>	<i>MW-D3</i>	<i>MW-D3</i>

¹ Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

² Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

³ A statistically significant level (SSL) is determined by comparing the confidence intervals developed for each constituent to their groundwater protection standard (GWPS). The GWPS is either the constituent's MCL, if available, or the USEPA Regional Screening Level (RSL), if no MCL is available. If the calculated background interwell tolerance limit is higher than the MCL or the RSL, the background concentration is used as GWPS (40 CFR § 257.95(h)).

⁴ Concentration of select detected constituents were below their laboratory reporting limit (i.e., values shown with "J" flag represent approximate concentrations) as shown in Tables 4 through 7.

<i>Sulfate</i>	<i>MW-D1, MW-D2, MW-D3</i>	<i>MW-D1, MW-D2, MW-D3</i>
<i>Total Dissolved Solids (TDS)</i>	<i>MW-D2, MW-D3</i>	<i>MW-D1, MW-D2, MW-D3</i>
Appendix IV Parameters	<i>No SSLs</i>	<i>No SSLs</i>

- Pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule, assessment monitoring will continue at the ash pond. The next assessment report will be submitted to the GA EPD in July 2025.

1.0 INTRODUCTION

1.1 Overview

Geosyntec Consultants (Geosyntec) of Kennesaw, Georgia, at the request of Crisp County Power Commission (CCPC), prepared this 2024 Annual Groundwater Monitoring Report for the ash pond located at CCPC's Plant Crisp (the Site). Plant Crisp is located in Warwick, Georgia, on the southern end of Lake Blackshear (**Figure 1**). CCPC installed a groundwater monitoring well network in February 2017 in compliance with the requirements of the 40 Code of Federal Regulations (C.F.R.) §257.91 and Section 391-3-4-.10(6) of the Georgia Environmental Protection Division (GA EPD) Coal Combustion Residuals (CCR) Rule.

A groundwater detection monitoring program was conducted between February and September 2017 in compliance with the requirements of the 40 C.F.R. §257.94. The first Annual Groundwater Monitoring Report summarizing the results of detection groundwater monitoring activities was prepared in January 2018 [Geosyntec, 2018]. In compliance with 40 C.F.R. §257.95(a), CCPC initiated an assessment monitoring program for the ash pond in March 2018. The assessment monitoring continued in 2024 by performing semi-annual monitoring events in April 2024 and October 2024. The April 2024 assessment monitoring event was performed for constituents listed in Appendix III to part §257 (referred herein as Appendix III constituents) and Appendix IV to part §257 (referred herein as Appendix IV constituents) (40 C.F.R. §257.95(b)). The October 2024 semi-annual assessment monitoring event was performed for all parameters in Appendix III to part §257 and for those constituents in Appendix IV that were detected during the April 2024 monitoring (40 C.F.R. §257.95(d)(1)). The groundwater monitoring and statistical analyses were performed consistent with the Groundwater Monitoring and Statistical Analysis Plan for the ash pond with the initial preparation in October 2017 and latest revision in April 2020.

The purpose of this report is to present a summary of the April 2024 and October 2024 groundwater assessment monitoring activities and associated laboratory and statistical analysis results. The report has been prepared to meet the annual reporting requirements of 40 C.F.R. §257.90(e) and semi-annual reporting requirements of GA EPD CCR Rule 391-3-4-.10(6)(c)⁵.

⁵ The semi-annual groundwater monitoring report is a state requirement under DNR Rule 391-3-4.10(6)(c): The owner or operator of a CCR unit must submit a semi-annual report to the Division to coincide with the semi-annual sampling event. A qualified groundwater scientist must certify the report.

In summary, the April 2024 and October 2024 sampling events detected concentrations of 40 C.F.R. §257, Appendix IV constituents but all concentrations were below their respective United States Environmental Protection Agency's (USEPA's) maximum contaminant levels (MCLs) (Appendix I to 40 C.F.R. §257)⁶ or groundwater protection standard (GWPS), if MCL is not available for the constituent.

1.2 Site History

Plant Crisp is a dual-fuel (coal and natural gas) electrical generation facility, with a 12.5-megawatt (MW) capacity coal-fired unit and 5 MW capacity natural gas combustion turbine. The byproducts of power generation from the combustion of coal (commonly referred to as CCR) at Plant Crisp included mainly fly ash and bottom ash. The CCR was disposed into a 6.5-acre ash pond located within the plant property using wet sluicing method. The ash pond was constructed in the mid-1970s, as an unlined pond [CDM Smith, 2014], and started to receive sluiced ash in 1976. The coal burning and resulting ash disposal was conducted until August 2015. The coal burn unit was briefly re-activated in December 2016 to eliminate an existing small coal supply. The last burning of coal took place on March 22, 2017. The electrical generation facility, ash pond, and hydroelectric dam are located on approximately 100 acres of CCPC property near Lake Blackshear and the Flint River (**Figure 1**). The ash pond was classified as a low hazard unit during the USEPA's CCR impoundment assessment, dated February 2014 and conducted by CDM Smith [CDM Smith, 2014].

In October 2016, CCPC submitted notification of closure by removal in accordance with 40 C.F.R. §257. The original schedule for closure would have removed CCR by February 2018, however, Georgia Department of Natural Resources (DNR) CCR management regulations were issued in November 2016, DNR Rule 391-3-4-.07(5), after the initial closure plan. DNR Rule 391-3-4-.07(5) required GA EPD's approval of CCR management plans for the receiving landfill. GA EPD approved the CCR management plan for the receiving landfill on March 28, 2019. On November 19, 2018, CCPC submitted a CCR permit application for the existing impoundment and closure of the ash pond by removal in accordance with 40 C.F.R. §257.102(c) and the GA EPD CCR Rule 391-3-4-.10 and other GA EPD regulations as applicable. GA EPD issued a permit on August 17, 2020.

⁶ MCLs are the maximum contaminant levels for potable drinking water which are established setting a lifetime consumption risk or acute level and would be applied to municipal or other drinking water sources.

The ash pond closure construction started in 2021 and was completed in 2024, including CCR removal and final site restoration activities. Closure Construction certification reports from a third-party Professional Engineer have been completed in 2024 and 2025. In addition, on 26 November 2024, GA EPD completed their review of a Major Modification application to the Solid Waste Handling Permit 159-007D (CCR) and issued the draft permit modification for public review and commenting. When this report was prepared, GA EPD was in the process of issuing the final permit modification for the Site.

1.3 Geologic and Hydrogeologic Setting

CCPC is located in the Coastal Plain Physiographic Province of Georgia, which is generally characterized by gently rolling to nearly flat topography. The Coastal Plain Physiographic Province of Georgia is characterized by Late Cretaceous and Cenozoic sedimentary rocks and sediments. Based on the Geologic Map of Georgia [Georgia Department of Natural Resources, 1997], the Site is underlain by Quaternary-aged stream alluvium and undifferentiated terrace deposits underlain by residual soil derived by the weathering of Eocene-aged limestone. Beneath the residuum is Eocene-aged limestone (the Ocala Limestone) that dips gently to the southeast and generally thicken in that direction [Hicks et al, 1987]. The Ocala Limestone comprises part of the Upper Floridan aquifer, which is underlain by low permeability zones within the Lisbon Formation (argillaceous limestone). Subsurface investigations at the Site generally describe the surface geology as embankment fill, alluvium, residuum and limestone bedrock [ND&T, 1994, Rizzo, 2015, Geosyntec, 2019].

The uppermost aquifer at the Site is the unconfined groundwater aquifer that occurs in the alluvium and some upper portions of the residuum. The alluvial sediments consist of alternating layers of clay, silty sand, silty clayey sand, and some gravel (SM, SM-SC). While most of the of the residuum consists of clays and calcareous clay (marl) with limestone fragments, there may be sandy clay and gravelly clay lenses that could act along with the overlying alluvium as part of the uppermost aquifer. Based on field observations (increasing clay content with depth in the residuum and increasing blow counts with depth), the hydraulic conductivity of the residuum is expected to decline with depth. As such, the lower part of the residuum is likely a confining unit and represents the lower boundary of the uppermost aquifer. Recharge to the uppermost aquifer is from infiltration of precipitation.

In March 2019, Geosyntec performed slug testing in four monitoring wells to estimate horizontal hydraulic conductivity (K_h) of the uppermost aquifer. Based on the slug testing

results, the geometric mean of the K_h in the uppermost aquifer was estimated as 1.44×10^{-4} centimeters per second (cm/sec) [0.41 feet per day (ft/day)]. This value is similar to the K_h estimated for the alluvium and residuum during previous investigations.

Under natural conditions, the water table surface is a subdued reflection of the topography, with groundwater generally flowing from southeast to northwest from the higher elevations to lower elevations toward the Flint River. The movement of groundwater in the uppermost aquifer can be characterized as porous media flow.

1.4 Groundwater Monitoring Well Network

In accordance with 40 C.F.R. §257.91, a groundwater monitoring system was installed that: (1) consists of a sufficient number of wells; (2) is installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer; and (3) represents the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions. The well network was certified by a professional engineer (PE) on June 14, 2017; the certification is maintained in the facility's Operating Record. Well construction diagrams of the monitoring wells were included in the January 2018 Annual Groundwater Monitoring Report [Geosyntec, 2018] as well as the Groundwater Monitoring and Statistical Analysis Plan [Geosyntec, 2020]. The certified groundwater monitoring well network includes one monitoring well (MW-U1) located upgradient of the ash pond, representing background groundwater conditions, and three monitoring wells (MW-D1, MW-D2, and MW-D3) located downgradient of the ash pond. The locations of the monitoring wells are shown on **Figure 1** and well construction details are provided in **Table 1**. The monitoring wells are screened in the uppermost aquifer underlying the ash pond, which occurs in the alluvium and some upper portions of the residuum.

CCPC does not currently plan to expand the certified monitoring well network for the ash pond. During the monitoring period: (i) all wells were functioning properly; (ii) there were no dry wells; and (iii) no additional well installation or abandonment was conducted. Therefore, no corrective action was needed for any of the monitoring wells.

2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS RESULTS

2.1 Groundwater Sampling and Laboratory Analysis

Groundwater assessment monitoring events for this reporting period were conducted in April 2024 and in October 2024. The groundwater samples were collected in accordance with the USEPA Laboratory Services & Applied Science Division (LSASD, Athens, Georgia) Operating Procedure (LSASDPROC-301-R6) [USEPA, Athens, Georgia, 2023].

Prior to sampling, depth to groundwater and total well depth were measured for each monitoring well using an electrical water level indicator. The water level indicator was cleaned between wells following the decontamination procedure listed under SESDPROC-205-R3 [USEPA, Athens, Georgia, 2015]. Depth to groundwater data and groundwater elevations are summarized in **Table 2**⁷. The groundwater elevation data were used to prepare the April 2024 and October 2024 potentiometric surface maps. These maps are provided as **Figure 2** and **Figure 3**, respectively. Based on the April and October 2024 potentiometric surface maps, groundwater flow direction is from southeast towards northwest with a hydraulic gradient of approximately 0.012 feet per foot (ft/ft) in both cases (**Table 3**). The average horizontal groundwater flow velocity was calculated using Darcy's equation as approximately 9 feet per year (ft/year) (**Table 3**).

Groundwater sampling was performed using a low-flow sampling method. To assess that the samples collected were representative of the groundwater in the aquifer, field water quality parameters were measured during purging using a Horiba U-52 water quality meter. These parameters include temperature, pH, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO). Measurements were taken within an enclosed flow-through cell to minimize effects of contact with air. Turbidity was measured using LaMotte 2020we turbidity meter. Purging was considered complete when the following stabilization criteria were met for at least three consecutive measurements (as defined by USEPA LSASD operating Procedure ID. LSASDPROC-301-R6):

- pH $\pm$ 0.1 Standard Units (SU);

⁷ In addition to the ash pond monitoring wells (MW-D1, MW-D2, MW-D3, and MW-U1), depth to groundwater level measurements and the calculated groundwater elevations in monitoring wells installed in 2022 for secondary ash areas (MW-D4 through MW-D9 and MW-U2) are presented in Table 2. Groundwater elevation data from the ash pond monitoring wells, the secondary ash areas monitoring wells, and Lake Blackshear are used to make potentiometric surface map.

- Conductivity $\pm 5\%$;
- Turbidity measured less than 10 nephelometric turbidity units (NTU);
- Other parameters used are dissolved oxygen ± 0.2 milligrams per liter (mg/L) or $\pm 10\%$ change in saturation, whichever is greater and ORP (reasonable ORP stability goal is ± 20 mV).

Field groundwater sampling forms are provided in **Appendix A**.

The groundwater samples were collected in laboratory-provided containers. Following sampling, the bottles were sealed, labeled, packed in ice, and shipped under chain-of-custody protocol to Eurofins Environment Testing in Pensacola, FL, a certified laboratory pursuant to the Georgia State Program. The chain-of-custody procedures were conducted in accordance with SESDPROC-005-R2 [USEPA, Athens, Georgia 2013]. The April 2024 groundwater samples were analyzed for Appendix III constituents (i.e., boron, calcium, chloride, fluoride, sulfate, total dissolved solids) and Appendix IV constituents (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226 and 228 combined, selenium, and thallium). The metal constituents were analyzed as total recoverable as the samples were not field-filtered. The October 2024 groundwater samples were analyzed for Appendix III constituents and the Appendix IV constituents that were detected during the April 2024 monitoring event (i.e., arsenic, barium, chromium, fluoride, molybdenum, and radium 226 and 228 combined). Groundwater pH, also an Appendix III constituent, was measured in the field using a Horiba water quality meter.

Field duplicate samples (DUP-22 in April 2024 and DUP-23 in October 2024) were collected for quality assurance/quality control (QA/QC). DUP-22 and DUP-23 were collected from monitoring wells MW-D1 and MW-D2, respectively. The duplicate samples were collected in laboratory-provided bottles and submitted under the same chain-of-custody as the primary samples for analysis of the same parameters by Eurofins Environment Testing. Results from the duplicate samples were presented in **Tables 4** through **Table 7**. Field sampling quality control samples (field blank and equipment blank) were collected during the April and October 2024 monitoring events.

2.2 April 2024 Groundwater Monitoring Results

Laboratory analytical results for Appendix III constituents from the April 2024 monitoring event are summarized in **Table 4**. Appendix III constituents were detected in the upgradient and downgradient monitoring well locations.

Laboratory analytical results for Appendix IV constituents are summarized in **Table 5**. Low levels of Appendix IV constituents (arsenic, barium, fluoride, molybdenum, and radium 226 and 228 combined) were detected in the downgradient monitoring wells. Similarly, low levels of barium, chromium, and fluoride were detected in the background/upgradient monitoring well MW-U1. **Table 5** shows that the detected concentrations of Appendix IV constituents are below their respective USEPA's MCLs or groundwater protection standards (GWPS). Low level Appendix IV constituents detected during the April 2024 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background well. Laboratory reports are included in **Appendix B**.

2.3 October 2024 Groundwater Monitoring Results

Laboratory analytical results of Appendix III constituents from the October 2024 groundwater assessment monitoring event are summarized in **Table 6**. Appendix III constituents were detected in the downgradient and upgradient monitoring well locations.

Laboratory analytical results of Appendix IV constituents from the October 2024 groundwater assessment monitoring event are summarized in **Table 7**. Low levels of Appendix IV constituents (arsenic, barium, chromium, fluoride, molybdenum, and radium 226 and 228 combined) were detected in the downgradient monitoring wells but significantly below groundwater protection standard or MCL levels; with detected chromium, fluoride, and molybdenum concentration were approximate (i.e., shown with "J" flag). Similarly, low levels of barium, chromium, and fluoride were detected in the background/upgradient monitoring well MW-U1. **Table 7** shows that the detected concentrations of Appendix IV constituents are below their respective USEPA's MCLs or GWPS. Low level Appendix IV constituents detected during the October 2024 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background well. The October 2024 laboratory reports are provided in **Appendix B**. Results of the field sampling quality control samples (field blank and equipment blank) are also provided in **Appendix B**.

The April and October 2024 assessment monitoring results were statistically evaluated in accordance with 40 C.F.R. §257.93(g). The statistical analysis results are discussed in Section 3.

3.0 STATISTICAL DATA ANALYSIS PROCEDURES

Statistical analysis of the groundwater data collected during the assessment monitoring event was performed in accordance with the methods listed in the Groundwater Monitoring and Statistical Analysis Plan [Geosyntec, 2020]. The statistical methods meet the requirements of the methods specified in 40 C.F.R. §257.93(f) (1) through (5) and the performance standards specified in 40 C.F.R. §257.93(g). Statistical analysis was performed using Sanitas™ v.9.6.05 software for Appendix III and Appendix IV constituents. Sanitas™ is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance (Unified Guidance) (USEPA, 2009).

The primary objectives of the statistical data analysis conducted during this reporting period are:

- (i) To assess if Appendix III constituents have returned to background levels.
- (ii) To calculate statistically derived background concentration for each Appendix IV constituent: The statistically derived background concentration is used as GWPS when the statistically derived background concentration is higher than the MCL (if an MCL has been established under 40 C.F.R. §161.62 and §141.66) or the standard listed under 40 C.F.R. §257.95 (h)(2) for those constituents without an established MCL.
- (iii) To construct a lower confidence interval for each Appendix IV constituent at each downgradient well and compare the lower confidence interval to an established GWPS and determine whether a statistically significant level (SSL) is present at any of the downgradient monitoring wells.

Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in Sections 3.1 and 3.2.

3.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs). Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the background limit to

assess whether there are significant statistical increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient compliance monitoring well exceeds the constituent's associated PL.

3.2 Appendix IV Statistical Methods

As a first step in developing the GWPS, groundwater data from the background well were screened for potential outlier (anomalous) data. In addition to visual inspection using time-series plots, statistical methods, such as the USEPA 1989 Outlier Screening method, were used to identify outliers in the groundwater data (when the data was normally distributed). Tukey's Outlier Screening method was used when background well data was not normally distributed. Although outliers were detected, they were not removed from the statistical analysis due to: (i) a large number of non-detects (also referred as censored data in the USEPA Unified Guidance) in the data set; and (ii) the USEPA Unified Guidance recommendation on screening data only if the source of the outlier is known. Data distribution was checked using Shapiro Wilk method at 99% confidence level. This method is appropriate for a sample size of less than 50. For statistical data analysis, non-detect laboratory results were replaced with their reporting limit in accordance with the USEPA Unified Guidance recommendation [USEPA, 2009].

The USEPA Unified Guidance recommends utilizing upper tolerance limits (UTL) from the background well to establish background concentrations. In addition, the CCR Rule lists the UTL method, calculated using data from the background well, as one of the methods acceptable for CCR data analysis [40 C.F.R. §257.93(f)(3)]. As a result, the GWPSs for the site were developed utilizing the UTL method and generally consisted of the following procedures:

- Parametric tolerance limits (95% coverage and 95% confidence) were constructed when the background data followed a normal or transformed-normal distribution.
- Non-parametric tolerance limits were calculated for data sets with greater than 50% non-detect values, and for data sets which do not follow a normal or transformed-normal distribution.
- The UTL was calculated for each constituent using background well data collected during the eight detection monitoring events and the assessment monitoring events conducted to date.

As described in 40 C.F.R. §257.95(h), which was adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022, the GWPS is:

- (1) the maximum contaminant level (MCL) established under 40 C.F.R. §141.62 and §141.66.
- (2) where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.100 mg/L.
- (3) the UTL computed from background well data for constituents where the UTL is higher than the MCL or rule-specified GWPS.

3.3 Evaluation of SSLs for Appendix IV Constituents

The USEPA Unified Guidance [USEPA, 2009] recommends utilizing the lower confidence interval from a downgradient well along with the double quantification rule to evaluate SSLs. A 99% lower confidence interval was constructed for each constituent at each downgradient well and the double quantification rule was used to evaluate SSLs. Under this rule, an SSL can be concluded if the lower confidence limit is higher than the GWPS.

4.0 STATISTICAL ANALYSIS RESULTS

Appendix III statistical analyses results identified SSIs for the following constituents: calcium, fluoride, sulfate, and TDS during the April 2024 and October 2024 monitoring events. The PL for each constituent and the list of wells with SSIs are summarized in **Table 8**. Because Appendix III statistical analyses results indicated that groundwater conditions have not returned to background levels, assessment monitoring should continue pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule.

The statistical analysis results for Appendix IV constituents are summarized in **Table 9**, which shows the (i) ratio of non-detects to total number of samples; (ii) basic statistics for each constituent in a monitoring well such as minimum and maximum; (iii) UTL of each constituent constructed based on the background well data; (iv) an MCL value for the constituent (if available) established under 40 C.F.R. §161.62 and 40 C.F.R. §141.66 or the standard listed under 40 C.F.R. §257.95(h)(2); and (v) the selected GWPS for each constituent.

Table 10 shows the lower confidence limit constructed for each Appendix IV constituent at each downgradient well and the results of comparison between the lower confidence limit and the selected GWPS to evaluate if there are any SSLs. Comparison of the lower confidence limit to the selected GWPS revealed no SSLs during the 2024 reporting period. The Sanitas[™] statistical calculations and time-series graphs for each constituent are provided in **Appendix C**.

If Appendix IV constituents continue to remain statistically below the GWPS after 5-years from the removal of CCR waste from the ash pond, groundwater monitoring will be discontinued in accordance with 40 C.F.R. §257.102(c) and GA EPD CCR Rule 391-3-4-.10.

5.0 FUTURE GROUNDWATER MONITORING PROGRAM

Data collected during the assessment monitoring events indicated that Appendix IV constituents detected in the downgradient monitoring wells were below their respective GWPS. Pursuant to the CCR Rule 40 C.F.R. §257.95(d)(1) and GA EPD's CCR Rules, CCPC will continue groundwater sampling semi-annually for Appendix III and Appendix IV constituents. The next annual groundwater monitoring report summarizing the 2025 groundwater monitoring results will be submitted by January 31, 2026. Pursuant to the GA EPD CCR Rule 391-3-4-.10(6)(c), a semi-annual monitoring will be conducted in April 2025 and a semi-annual monitoring report will be submitted to GA EPD by July 31, 2025.

The CCR removal at the ash pond has been completed in 2023. Assuming the concentrations of the Appendix IV constituents continue to remain below their respective GWPS, CCPC will discontinue groundwater monitoring after 5-years from the removal of all CCR waste from the ash pond in accordance with 40 C.F.R. §257.102(c) and GA EPD CCR Rule 391-3-4-.10.

6.0 REFERENCES

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TABLES

Table 1. Monitoring Well Network Summary
Crisp County Power Commission
Plant Crisp Ash Pond

Well ID	Hydraulic Location	Installation Date	Well Depth (ft BTOC)	Easting ⁽¹⁾	Northing ⁽¹⁾	TOC Elevation ⁽²⁾ (ft MSL)	Screen Interval Elevation ⁽²⁾ (ft MSL)
MW-D1	Downgradient	2/22/2017	22.9	2365315.12	670708.47	241.77	218.85 - 228.85
MW-D2	Downgradient	2/21/2017	22.6	2365308.73	671291.61	232.66	209.64 - 219.64
MW-D3	Downgradient	2/22/2017	22.7	2365715.53	671291.07	233.78	210.52 - 220.52
MW-U1	Upgradient	2/23/2017	37.4	2366420.55	669996.79	249.52	212.78 - 222.78

Notes:

ft = feet

BTOC = Below top of casing

TOC = Top of casing

MSL = Mean sea level

The easting, northing, and TOC elevations were obtained from a revised survey performed by J.B. Faircloth & Associates, P.C. on 26 November 2019.

⁽¹⁾: The easting and northing coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

⁽²⁾: Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

**Table 2. Groundwater Elevation Summary
Crisp County Power Commission
Plant Crisp Ash Pond**

Well ID	Monitoring CCR Unit	TOC Elevation (ft MSL) ⁽¹⁾	Date: 4/23/2024		Date: 10/16/2024	
			Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-D1	Ash Pond	241.77	13.53	228.24	15.20	226.57
MW-D2	Ash Pond	232.66	11.73	220.93	12.75	219.91
MW-D3	Ash Pond	233.78	6.18	227.60	6.77	227.01
MW-U1	Ash Pond	249.52	7.85	241.67	10.84	238.68
MW-D4	Secondary Ash Area	246.51	8.92	237.59	10.52	235.99
MW-D5	Secondary Ash Area	241.16	7.23	233.93	8.49	232.67
MW-D6	Secondary Ash Area	252.63	19.92	232.71	21.58	231.05
MW-D7	Secondary Ash Area	230.18	6.29	223.89	7.48	222.70
MW-D8	Secondary Ash Area	226.76	6.46	220.30	7.57	219.19
MW-D9	Secondary Ash Area	221.42	6.25	215.17	6.61	214.81
MW-U2	Secondary Ash Area	248.79	7.48	241.31	10.19	238.60
Lake Blackshear	--	--	--	236.98 ⁽²⁾	--	236.97 ⁽³⁾

Notes:

ft = feet

TOC = Top of casing

MSL = mean sea level

BTOC = Below top of casing

-- : not applicable

⁽¹⁾: Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

⁽²⁾: Surface water elevation on 4/23/2024 at 12:00 PM.

⁽³⁾: Surface water elevation on 10/16/2024 at 12:00 PM.

**Table 3. Hydraulic Gradient and Groundwater Flow Velocity Calculations
Crisp County Power Commission
Plant Crisp Ash Pond**

Location	Hydraulic Gradient (4/23/2024)				Groundwater Flow Velocity (4/23/2024)			Hydraulic Gradient (10/16/2024)				Groundwater Flow Velocity (10/16/2024)		
	h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K _h (ft/day)	η _e	V (ft/year) ¹	h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K _h (ft/day)	η _e	V (ft/year) ¹
Between MW-U1 (h ₁) and MW-D9	241.67	215.17	2,075	0.013	0.41	0.20	9.6	238.68	214.81	2,075	0.012	0.41	0.20	8.6
Between MW-D4 (h ₁) and MW-D9	237.59	215.17	1,690	0.013	0.41	0.20	9.9	235.99	214.81	1,690	0.013	0.41	0.20	9.4
Between Lake Blackshear (h ₁) and MW-D3 (h ₂)	236.98	227.60	905	0.010	0.41	0.20	7.8	236.97	227.01	905	0.011	0.41	0.20	8.2
Average				0.012			9.03				0.012			8.73

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

ft/year = feet per year

h₁ and h₂ = groundwater elevation for upgradient and downgradient locations, respectively.

Δh/Δl = hydraulic gradient

K_h = hydraulic conductivity geometric mean of 0.41 ft/day estimated using slug testing in monitoring wells.

Δl = distance between upgradient and downgradient locations.

η_e = effective porosity (estimated based on fine-grained sand aquifer) (Kresic, 2007)

V = groundwater flow velocity

⁽¹⁾ Groundwater flow velocity equation: $V = [K_h * (\Delta h / \Delta l)] / \eta_e$

Table 4. Appendix III Analytical Data Summary - Sampling Performed on 23 April 2024
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix III to 40 C.F.R. Part 257 - Constituents for Detection Monitoring

Constituent	Unit	MCL ⁽¹⁾	MDL ⁽²⁾	Upgradient Well ID	Downgradient Well ID			
					MW-D1		MW-D2	MW-D3
					MW-U1	DUP-22		
Boron	mg/L	N/A	0.022	ND	0.099	0.098	0.10	0.12
Calcium	mg/L	N/A	0.14	33	21	20	110	64
Chloride	mg/L	N/A	1.4	1.5 J	4.7	2.8	3.7	2.5
Fluoride	mg/L	4	0.022	0.050 J	0.047 J	0.040 J	0.059 J	0.13
Sulfate	mg/L	N/A	1.4	2.3 J	12	11	11	22
pH⁽³⁾	SU	N/A	--	7.92	6.25	6.25	6.80	7.50
Total Dissolved Solids	mg/L	N/A	5.0	120	84	80	330	220

Notes:

mg/L = milligrams per liter.

ND = the constituent was not detected above the analytical method detection limit (MDL).

MCL = Maximum Contaminant Level

MDL = Method Detection Limit

S.U. = Standard Unit.

N/A = not applicable because the constituent does not have an MCL.

J = result is less than the reporting level but greater than or equal to the MDL and the reported concentration is an approximate value.

B = compound was found in the blank and sample.

-- = not applicable

DUP-22 is a duplicate sample collected from MW-D1.

⁽¹⁾: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.

⁽²⁾: MDL indicates minimum detection limit, which is the minimum concentration of analyte that can be measured and reported.

⁽³⁾: The pH value was recorded at the time of sample collection in the field.

Table 5. Appendix IV Analytical Data Summary - Sampling Performed on 23 April 2024
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix IV to 40 C.F.R. Part 257 - Constituents for Assessment Monitoring

Constituent	Unit	MCL ⁽¹⁾	CCR-Rule Specified ⁽²⁾	MDL	Upgradient Well ID	Downgradient Well ID			
					MW-U1	MW-D1		MW-D2	MW-D3
						MW-D1	DUP-22		
Antimony	mg/L	0.006	N/A	0.00034	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.00086	ND	ND	ND	ND	0.0012 J
Barium	mg/L	2	N/A	0.00089	0.0018 J	0.015	0.012	0.13	0.038
Beryllium	mg/L	0.004	N/A	0.00020	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.000078	ND	ND	ND	ND	ND
Chromium	mg/L	0.1 ⁽³⁾	N/A	0.0012	0.0012 J	ND	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00022	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.022	0.050 J	0.047 J	0.040 J	0.059 J	0.13
Lead	mg/L	0.015 ⁽⁴⁾	N/A	0.00021	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0020	ND	ND	ND	ND	ND
Mercury	mg/L	0.002 ⁽⁵⁾	N/A	0.00008	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.00086	ND	ND	ND	ND	0.0049 J
Radium 226 and 228 Combined	pCi/L	5	N/A	-- ⁽⁶⁾	-0.150 U	0.925	0.636	0.189 U	0.113 U
Selenium	mg/L	0.05	N/A	0.00099	ND	ND	ND	ND	ND
Thallium	mg/L	0.002	N/A	0.00026	ND	ND	ND	ND	ND

Notes:

mg/L = milligrams per liter.

pCi/L = picocuries per liter.

ND = the constituent was not detected above the analytical method detection limit (MDL).

J = concentration is less than the reporting level but greater than or equal to the MDL and the reported concentration is an approximate value.

U = result is less than the sample detection limit.

N/A = not applicable for the constituent.

⁽¹⁾: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.

⁽²⁾: On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated Groundwater Protection Standard (GWPS) for cobalt, lithium, lead, and molybdenum.

⁽³⁾: MCL value for total chromium.

⁽⁴⁾: Lead Treatment Technology Action Level is 0.015 mg/L.

⁽⁵⁾: Value for inorganic mercury.

Table 6. Appendix III Analytical Data Summary - Sampling Performed on 16 October 2024
Crisp County Power Commission
Plant Crisp Ash Pond
Appendix III to 40 C.F.R. Part 257 - Constituents for Detection Monitoring

Constituent	Unit	MCL ⁽¹⁾	MDL ⁽²⁾	Upgradient Well ID	Downgradient Well ID			
				MW-U1	MW-D1	MW-D2		MW-D3
						DUP-23	MW-D2	
Boron	mg/L	N/A	0.022	ND	0.13	0.14	0.14	0.20
Calcium	mg/L	N/A	0.14	38	50.0	140.0	140.0	79
Chloride	mg/L	N/A	1.4	ND	3.4	5.7	6.0	1.9 J
Fluoride	mg/L	4	0.022	0.064 J	0.078 J	0.066 J	0.066 J	0.13
Sulfate	mg/L	N/A	1.4	2.3 J	16	14	13	22
pH⁽³⁾	SU	N/A	N/A	7.95	6.84	6.76	6.76	7.48
Total Dissolved Solids	mg/L	N/A	5.0	110 H	130 H	370 H	360 H	210 H

Notes:

mg/L = milligrams per liter.

ND = the constituent was not detected above the analytical method detection limit (MDL).

MCL = Maximum Contaminant Level

MDL = Method Detection Limit

S.U. = Standard Unit.

N/A = not applicable because the constituent does not have an MCL.

J = result is less than the reporting level but greater than or equal to the MDL and the reported concentration is an approximate value.

H = Sample was prepped or analyzed beyond the specified holding time. The results should be considered estimate.

-- = not applicable

DUP-23 is a duplicate sample collected from MW-D1.

⁽¹⁾: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.

⁽²⁾: MDL indicates minimum detection limit, which is the minimum concentration of analyte that can be measured and reported.

⁽³⁾: The pH value was recorded at the time of sample collection in the field.

Table 7. Appendix IV Analytical Data Summary - Sampling Performed on 16 October 2024
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix IV to 40 C.F.R. Part 257 - Constituents for Assessment Monitoring

Constituent	Unit	MCL ⁽¹⁾	CCR-Rule Specified ⁽²⁾	MDL	Upgradient Well ID	Downgradient Well ID			
					MW-U1	MW-D1	MW-D2		MW-D3
							DUP-23	MW-D2	
Antimony	mg/L	0.006	N/A	0.00034	ND	--	--	--	--
Arsenic	mg/L	0.01	N/A	0.00086	ND	ND	ND	ND	0.0014
Barium	mg/L	2	N/A	0.00089	0.0022 J ^6+	0.012 ^6+	0.15 ^6+	0.15 ^6+	0.047 ^6+
Chromium	mg/L	0.1 ⁽³⁾	N/A	0.0012	0.0022 J	ND	ND	ND	0.0017 J
Cobalt	mg/L	N/A	0.006	0.00022	ND	--	--	--	--
Fluoride	mg/L	4	N/A	0.022	0.064 J	0.078 J	0.066 J	0.066 J	0.13
Lead	mg/L	0.015 ⁽⁴⁾	N/A	0.00021	ND	--	--	--	--
Molybdenum	mg/L	N/A	0.1	0.00086	ND	ND	ND	ND	0.0062 J
Radium 226 and 228 Combined	pCi/L	5	N/A	-- ⁽⁵⁾	-0.162 U	0.136 U	0.649 U	0.519 U	-0.400 U
Selenium	mg/L	0.050	N/A	0.00099	ND	--	--	--	--

Notes:

mg/L = milligrams per liter.

pCi/L = picocuries per liter.

ND = the constituent was not detected above the analytical method detection limit (MDL).

J = concentration is less than the reporting level but greater than or equal to the MDL and the reported concentration is an approximate value.

U = result is less than the sample detection limit.

^6+ = Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.

N/A = not applicable for the constituent.

⁽¹⁾: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.

⁽²⁾: On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated Groundwater Protection Standard (GWPS) for cobalt, lithium, lead, and molybdenum.

⁽³⁾: MCL value for total chromium.

⁽⁴⁾: Lead Treatment Technology Action Level is 0.015 mg/L.

⁽⁵⁾: During the analysis of radium, background concentrations are subtracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.0648 pCi/L for MW-U1, 0.909 pCi/L for MW-D1, 0.664 pCi/L for MW-D2, 0.698 pCi/L for MW-D3, and 0.732 pCi/L for DUP-23.

**Table 8. Evaluation of SSIs for Appendix III Constituents
Crisp County Power Commission
Plant Crisp Ash Pond**

Appendix III to Part 257 Constituents for Detection Monitoring	Prediction Limit¹	Wells with SSI (April 2024 Monitoring)	Wells with SSI (October 2024 Monitoring)
Boron (mg/L)	0.34	None	None
Calcium (mg/L)	39.95	MW-D2, MW-D3	MW-D1, MW-D2, MW-D3
Chloride (mg/L)	9.833	None	None
Field pH (SU)	<5.07 or >9.43	None	None
Fluoride (mg/L)	0.09568	MW-D3	MW-D3
Sulfate (mg/L)	4.426	MW-D1, MW-D2, MW-D3	MW-D1, MW-D2, MW-D3
Total Dissolved Solids (TDS) (mg/L)	128.3	MW-D2, MW-D3	MW-D1, MW-D2, MW-D3

Notes:

mg/L = milligrams per liter.

SSI = Statistically Significant Increases compared to background.

SU = Standard Unit

¹: The prediction limit values were calculated using data collected from the background well MW-U1 between February 2017 and October 2024. The April 2024 concentrations were compared to the predication values calculated in April 2024. The October 2024 measurements were compared with the most recent prediction limit values.

Table 9. Summary of Basic Groundwater Statistics and GWPS for Appendix IV Constituents
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix IV to Part 257 - Constituents for Assessment Monitoring	Well ID	Number of Samples	Number of Non-detects	% Non-detects	Minimum	Maximum	Upper Tolerance Limit	Maximum Contaminant Level (MCL established under 40 CFR §161.62 and 40 CFR §141.66) or Groundwater Protection Standard (GWPS listed under 40 CFR §257.95(h)(2))	Selected GWPS for the Site
Antimony [mg/L]	MW-D1	15	15	100%	<0.0005	<0.0025		0.006	0.006
	MW-D2	15	15	100%	<0.0005	<0.0025			
	MW-D3	15	15	100%	<0.0005	<0.0025			
	MW-U1	17	17	100%	<0.0005	<0.0025	0.0025		
Arsenic [mg/L]	MW-D1	22	22	100%	<0.00025	<0.0025		0.01	0.01
	MW-D2	22	18	82%	0.00027 (B)	<0.0025			
	MW-D3	22	6	27%	0.00048 (J)	<0.0025			
	MW-U1	23	19	83%	0.00015 (JB)	<0.0025	0.0025		
Barium [mg/L]	MW-D1	23	0	0%	0.0095	0.027		2	2
	MW-D2	23	0	0%	0.087	0.190			
	MW-D3	23	0	0%	0.038	0.230			
	MW-U1	24	0	0%	0.0018	0.0062	0.0062		
Beryllium [mg/L]	MW-D1	15	15	100%	<0.0004	<0.0025		0.004	0.004
	MW-D2	15	15	100%	<0.0004	<0.0025			
	MW-D3	15	15	100%	<0.0004	<0.0025			
	MW-U1	16	16	100%	<0.0004	<0.0025	0.002		
Cadmium [mg/L]	MW-D1	16	16	100%	<0.0002	<0.0025		0.005	0.005
	MW-D2	16	15	94%	0.000075 (J)	<0.0025			
	MW-D3	16	15	94%	0.000071 (J)	<0.0025			
	MW-U1	17	17	100%	<0.0002	<0.0025	0.001		
Chromium [mg/L]	MW-D1	21	18	86%	<0.0005	0.0050		0.1	0.1
	MW-D2	21	18	86%	<0.0005	0.0038			
	MW-D3	21	18	86%	<0.0005	0.0037			
	MW-U1	22	2	9%	0.0011	0.0051	0.0051		
Cobalt [mg/L]	MW-D1	20	19	95%	<0.0005	<0.0025		0.006	0.006
	MW-D2	20	18	90%	0.00047 (J)	<0.0025			
	MW-D3	20	5	25%	0.00035 (J)	<0.0025			
	MW-U1	22	21	95%	<0.0005	<0.0025	0.0025		
Fluoride [mg/L]	MW-D1	23	0	0%	0.040	0.180		4	4
	MW-D2	23	3	13%	0.040	0.120			
	MW-D3	23	0	0%	0.060	0.200 F1			
	MW-U1	24	3	13%	0.040	0.130	0.1247		
Lead [mg/L]	MW-D1	15	14	93%	<0.00025	<0.0013		0.015	0.0015
	MW-D2	15	13	87%	<0.00025	<0.0013			
	MW-D3	15	15	100%	<0.00025	<0.0013			
	MW-U1	17	16	94%	<0.00025	<0.0013	0.0013		
Lithium [mg/L]	MW-D1	18	17	94%	<0.0005	<0.005		0.04	0.04
	MW-D2	18	16	89%	<0.0005	<0.005			
	MW-D3	18	15	83%	0.00048 (J)	<0.005			
	MW-U1	19	17	89%	0.00034 (J)	0.0058	0.0058		
Mercury [mg/L]	MW-D1	15	14	93%	0.000077 (JB)	<0.0002		0.002	0.002
	MW-D2	15	13	87%	0.00011 (JB)	<0.0002			
	MW-D3	15	14	93%	0.00011 (JB)	<0.0002			
	MW-U1	16	15	94%	0.000099 (JB)	<0.0002	0.0002		
Molybdenum [mg/L]	MW-D1	21	21	100%	<0.002	<0.02		0.10	0.10
	MW-D2	21	18	86%	0.0012 (J)	<0.02			
	MW-D3	21	4	19%	0.0017 (J)	<0.01			
	MW-U1	22	21	95%	0.0011 (J)	<0.02	0.02		
Radium 226 and 228 Combined [pCi/L]	MW-D1	23	6	26%	0.0994	1.420		5	5
	MW-D2	23	6	26%	0.0139	1.280			
	MW-D3	23	7	30%	0.000	1.280			
	MW-U1	23	7	30%	0.000	1.720	3.801		
Selenium [mg/L]	MW-D1	18	15	83%	<0.00025	0.0014		0.05	0.05
	MW-D2	18	14	78%	<0.00025	0.0026			
	MW-D3	18	12	67%	0.00021 (J)	0.0028			
	MW-U1	20	13	65%	0.00039	<0.0013	0.0013		
Thallium [mg/L]	MW-D1	19	19	100%	<0.0001	<0.0005		0.002	0.002
	MW-D2	19	9	47%	0.000085 (J)	<0.0005			
	MW-D3	19	5	26%	0.000095 (J)	<0.0005			
	MW-U1	20	20	100%	<0.0001	<0.0005	0.0005		

Notes:
mg/L = milligrams per liter
pCi/L = picocuries per liter
Highlighted cells show the background well (MW-U1).
J - Result is less than the reporting level but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.
B - Compound was found in the blank and sample.

Table 10. Evaluation of SSLs for Appendix IV Constituents
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix IV to Part 257 - Constituents for Assessment Monitoring	Well ID	Selected Groundwater Protection Standard (GWPS) for the Site (From Table 9)	Lower Confidence Limit if Detected During the 2024 Monitoring Period	Concentrations in Downgradient Well Show Statistically Significant Level (SSL) Above GWPS?
Antimony [mg/L]	MW-U1	0.006	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Arsenic [mg/L]	MW-U1	0.01	Background Well	
	MW-D1		0.00025	No
	MW-D2		0.00095	No
	MW-D3		0.00071	No
Barium [mg/L]	MW-U1	2	Background Well	
	MW-D1		0.0167	No
	MW-D2		0.1557	No
	MW-D3		0.1625	No
Beryllium [mg/L]	MW-U1	0.004	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Cadmium [mg/L]	MW-U1	0.005	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Chromium [mg/L]	MW-U1	0.1	Background Well	
	MW-D1		0.00020	No
	MW-D2		0.00180	No
	MW-D3		0.00120	No
Cobalt [mg/L]	MW-U1	0.006	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Fluoride [mg/L]	MW-U1	4	Background Well	
	MW-D1		0.09299	No
	MW-D2		0.07645	No
	MW-D3		0.130	No
Lead [mg/L]	MW-U1	0.0015	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Lithium [mg/L]	MW-U1	0.04	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Mercury [mg/L]	MW-U1	0.002	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Molybdenum [mg/L]	MW-U1	0.10	Background Well	
	MW-D1		0.002	No
	MW-D2		0.0025	No
	MW-D3		0.0025	No
Radium 226 and 228 Combined [pCi/L]	MW-U1	5	Background Well	
	MW-D1		0.2561	No
	MW-D2		0.3198	No
	MW-D3		0.2887	No
Selenium [mg/L]	MW-U1	0.05	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Thallium [mg/L]	MW-U1	0.002	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

ND = Not Detected

Highlighted cells show the background well (MW-U1).

FIGURES



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from June 2016.



Legend

-  Groundwater Monitoring Well (Ash Pond)
-  Ash Pond Approximate Boundary
-  Approximate CCPC Property Boundary

0 250 500 1,000
Feet

Groundwater Monitoring Well Location Map

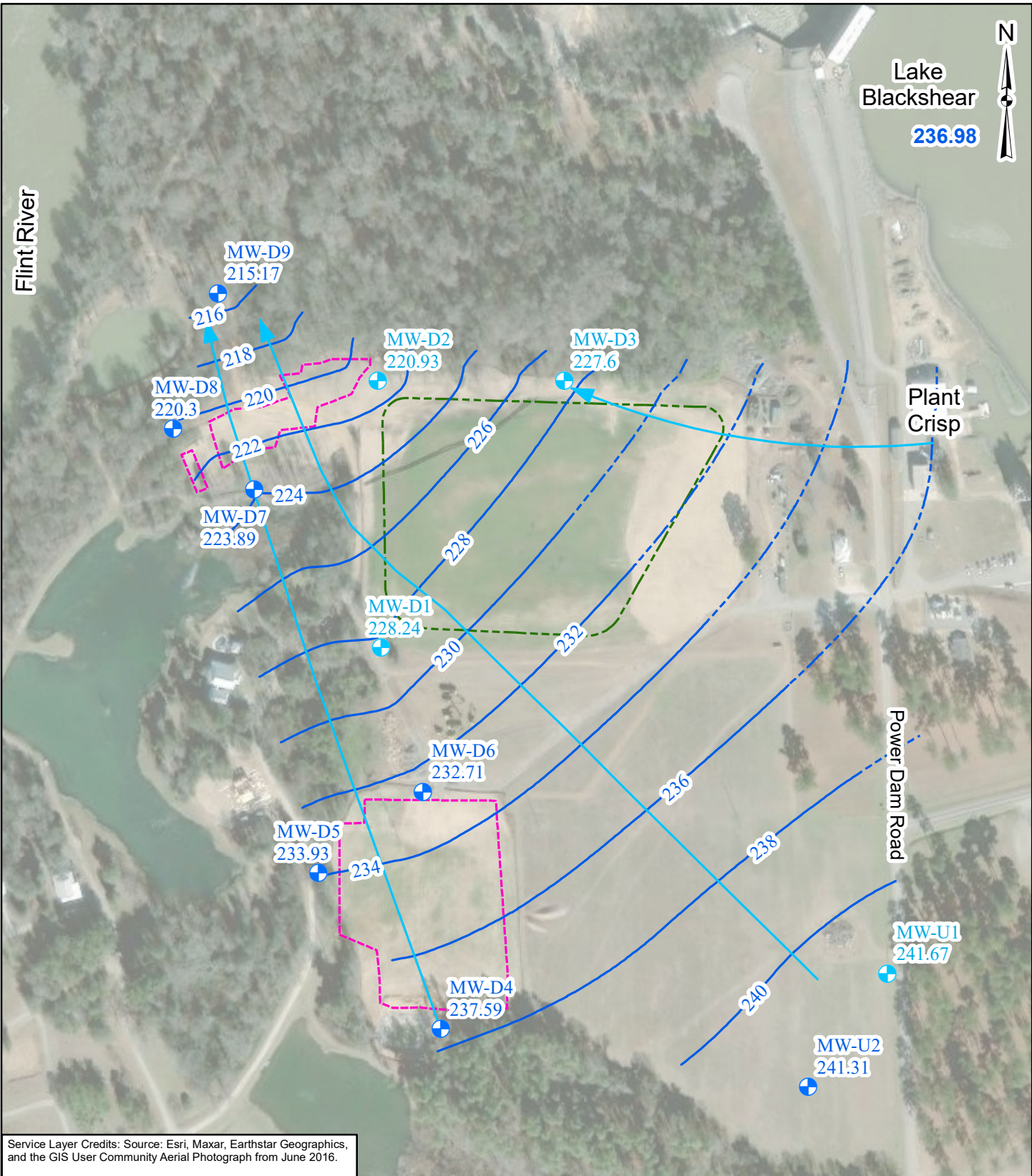
Crisp County Power Commission
Warwick, Georgia

Geosyntec
consultants

KENNESAW, GA

DATE:	JANUARY 2025
PROJECT NO.	GW6152
DOCUMENT NO.	GA 240382
FILE NO.	FIGURE 1 GROUNDWATER MONITORING WELL LOCATION MAP.MXD
FIGURE NO.	1

\\n0-01\prj\GIS\Crisp County\GIS\MXD\2024\April_2024_Potentiometric Surface Map.mxd 7/16/2024 8:11:30 AM



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from June 2016.

STAMP

Dawit Yifru
PG001965

Legend

- Monitoring Well (Ash Pond)
- Monitoring Well (Secondary Ash Areas)
- Groundwater Elevation Contour - 23 April 2024 (ft, MSL) (dashed where inferred)
- Groundwater Flow Direction
- Secondary Ash Area Approximate Boundary
- Ash Pond Approximate Boundary

Note: MW-U1 serves as background monitoring well for the ash pond and secondary ash areas.

0 150 300 Feet

**Potentiometric Surface Map
(April 2024)**

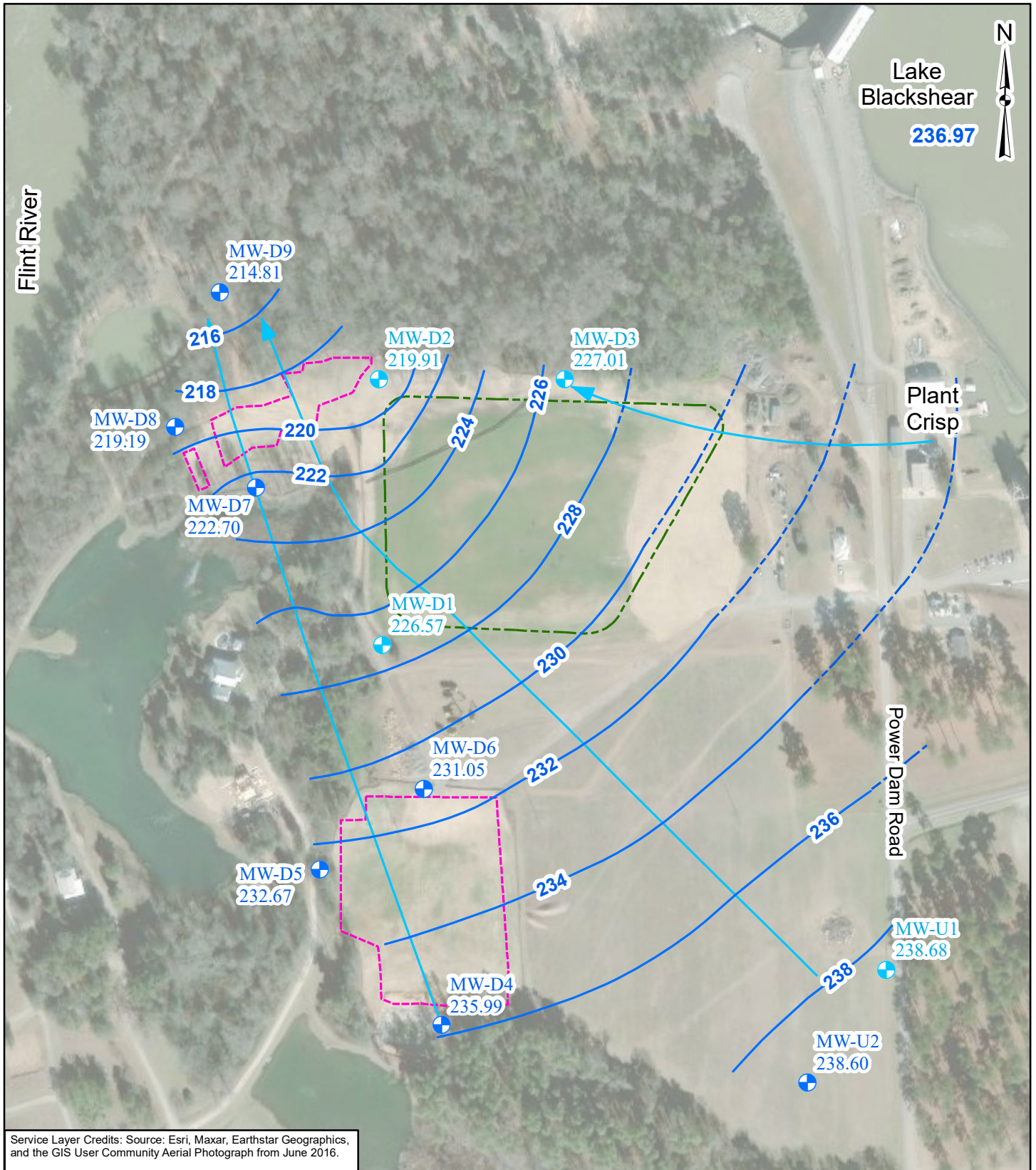
Crisp County Power Commission
Warwick, Georgia

Geosyntec
consultants

KENNESAW, GA

DATE:	JANUARY 2025
PROJECT NO.	GW6152
DOCUMENT NO.	GA 240382
FILE NO.	FIGURE 2 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	2

\\a-o-01\prj\GIS\Warwick County\GIS\MXD\2024\October_2024_Potentiometric Surface Map.mxd 12/23/2024 9:09:20 AM



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from June 2016.

STAMP

Dawit Yifru
PG001965

Legend

- Monitoring Well (Ash Pond)
- Monitoring Well (Secondary Ash Areas)
- Groundwater Elevation Contour - 16 October 2024 (ft, MSL) (dashed where inferred)
- Groundwater Flow Direction
- Secondary Ash Area Approximate Boundary
- Ash Pond Approximate Boundary

Note: MW-U1 serves as background monitoring well for the ash pond and secondary ash areas.

0 150 300
Feet

Potentiometric Surface Map (October 2024)

Crisp County Power Commission
Warwick, Georgia

Geosyntec
consultants

KENNESAW, GA

DATE:	JANUARY 2025
PROJECT NO.	GW6152
DOCUMENT NO.	GA 240382
FILE NO.	FIGURE 2 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	3

APPENDIX A

Field Groundwater Sampling Forms

April 2024

Water Level Measurement Form

Site Name:	<u>Crisp County Power</u>	Sampling Person:	
Location:	<u>Warwick, Georgia</u>	Field Conditions:	
Date:	<u>4/23/2024</u>		

Well ID	Time	TOC Elevation	Depth to Water (ft BTOC)	Well Depth (ft BTOC)	GW Elevation	Field Observations
MW-U1		249.52	7.85	37.35	241.67	
MW-U2		248.79	7.48	30.96	241.31	
MW-D1		241.77	13.53	22.82	228.24	
MW-D2		232.66	11.73	22.51	220.93	
MW-D3		233.78	6.18	22.72	227.6	
MW-D4		246.51	8.92	29.91	237.59	
MW-D5		241.16	7.23	36.05	233.93	
MW-D6		252.63	19.92	37.49	232.71	
MW-D7		230.18	6.29	27.03	223.89	
MW-D8		226.76	6.46	27.65	220.3	
MW-D9		221.42	6.25	27.31	215.17	

TOC = Top of casing

BTOC = Below top of casing

Low-Flow Test Report:

Test Date / Time: 4/23/2024 12:07:17 PM
Project: CCPC
Operator Name: Zain W.

Location Name: MW-U1 Well Diameter: 2 in Casing Type: PVC Initial Depth to Water: 7.85 ft	Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 28.75 ft Estimated Total Volume Pumped: 5 liters Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.49 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965586
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Test Notes:
Appendix III and IV

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 12:07 PM	00:00	7.90 pH	21.55 °C	194.28 µS/cm	7.07 mg/L	0.40 NTU	42.6 mV	8.34 ft	250.00 ml/min
4/23/2024 12:12 PM	05:00	7.92 pH	21.54 °C	186.96 µS/cm	7.05 mg/L	0.27 NTU	41.1 mV	8.34 ft	250.00 ml/min
4/23/2024 12:17 PM	10:00	7.92 pH	21.55 °C	186.30 µS/cm	7.04 mg/L	0.16 NTU	42.7 mV	8.34 ft	250.00 ml/min
4/23/2024 12:22 PM	15:00	7.92 pH	21.62 °C	186.05 µS/cm	7.01 mg/L	0.23 NTU	43.8 mV	8.34 ft	250.00 ml/min

Samples

Sample ID:	Description:
MW-U1-20240423	Grab.

Low-Flow Test Report:

Test Date / Time: 4/23/2024 1:37:13 PM
Project: CCPC
Operator Name: Zain W.

Location Name: MW-D1 Well Diameter: 2 in Casing Type: PVC Initial Depth to Water: 13.57 ft	Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 14.5 ft Estimated Total Volume Pumped: 7.5 liters Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965586
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Test Notes:
Appendix III and IV

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 1:37 PM	00:00	6.07 pH	21.41 °C	97.52 µS/cm	2.55 mg/L	1.44 NTU	125.0 mV	13.64 ft	250.00 ml/min
4/23/2024 1:42 PM	05:00	6.08 pH	20.14 °C	111.71 µS/cm	1.51 mg/L	1.19 NTU	105.5 mV	13.64 ft	250.00 ml/min
4/23/2024 1:47 PM	10:00	6.17 pH	19.99 °C	121.89 µS/cm	1.54 mg/L	1.02 NTU	96.1 mV	13.64 ft	250.00 ml/min
4/23/2024 1:52 PM	15:00	6.19 pH	20.02 °C	131.99 µS/cm	1.59 mg/L	1.47 NTU	90.8 mV	13.65 ft	250.00 ml/min
4/23/2024 1:57 PM	20:00	6.24 pH	19.94 °C	131.93 µS/cm	1.69 mg/L	0.56 NTU	87.0 mV	13.65 ft	250.00 ml/min
4/23/2024 2:02 PM	25:00	6.25 pH	20.03 °C	132.56 µS/cm	1.69 mg/L	1.02 NTU	84.3 mV	13.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
MW-D1-20240423	Grab.
DUP-22-20240423	Grab.

Low-Flow Test Report:

Test Date / Time: 4/23/2024 1:31:46 PM
Project: CCPC
Operator Name: Tristan H.

Location Name: MW-D2 Well Diameter: 2 in Casing Type: PVC Initial Depth to Water: 11.73 ft	Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 18.0 ft Estimated Total Volume Pumped: 7.0 liters Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884187
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Test Notes:
Appendix III and IV

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 1:31 PM	00:00	6.80 pH	21.20 °C	514.32 µS/cm	0.26 mg/L	0.12 NTU	103.9 mV	12.00 ft	200.00 ml/min
4/23/2024 1:36 PM	05:00	6.81 pH	19.70 °C	531.03 µS/cm	0.32 mg/L	0.76 NTU	98.0 mV	12.16 ft	200.00 ml/min
4/23/2024 1:41 PM	10:00	6.78 pH	19.61 °C	525.40 µS/cm	0.81 mg/L	0.89 NTU	81.1 mV	12.33 ft	200.00 ml/min
4/23/2024 1:46 PM	15:00	6.79 pH	19.46 °C	531.40 µS/cm	0.85 mg/L	1.70 NTU	68.5 mV	12.50 ft	200.00 ml/min
4/23/2024 1:51 PM	20:00	6.79 pH	19.49 °C	539.78 µS/cm	0.86 mg/L	3.20 NTU	50.6 mV	12.64 ft	200.00 ml/min
4/23/2024 1:56 PM	25:00	6.80 pH	19.44 °C	537.52 µS/cm	0.85 mg/L	2.73 NTU	54.1 mV	12.77 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-D2-20240423	Grab.

Low-Flow Test Report:

Test Date / Time: 4/23/2024 3:29:15 PM
Project: CCPC
Operator Name: Tristan H.

Location Name: MW-D3 Well Diameter: 2 in Casing Type: PVC Initial Depth to Water: 6.2 ft	Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 17.5 ft Estimated Total Volume Pumped: 5.8 liters Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.98 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884187
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Test Notes:
Appendix III and IV

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 3:29 PM	00:00	7.49 pH	21.09 °C	373.21 µS/cm	2.65 mg/L	0.50 NTU	106.8 mV	7.76 ft	200.00 ml/min
4/23/2024 3:34 PM	05:00	7.49 pH	20.71 °C	373.93 µS/cm	2.64 mg/L	0.36 NTU	67.7 mV	7.97 ft	200.00 ml/min
4/23/2024 3:39 PM	10:00	7.51 pH	20.45 °C	366.67 µS/cm	2.76 mg/L	0.36 NTU	64.9 mV	8.10 ft	200.00 ml/min
4/23/2024 3:44 PM	15:00	7.50 pH	20.33 °C	367.24 µS/cm	2.71 mg/L	0.00 NTU	58.9 mV	8.18 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-D3-20230423	Grab.

October 2024

Water Level Measurement Form

Site Name: Crisp County Power

Location: Warwick, Georgia

Date:

Sampling Person:

Field Conditions:

Zain Webb, Danya Gene
Clear, 60°F

[illegible]

EQUIPMENT CALIBRATION LOG

Field Technician Zan Webb

Date 10-16-24

Time (start) 1030

Time (finish) 1101

Smartroll SN 883530

Turbidity Meter Type LaMotte 2020

SN 1571-3019

Weather Conditions Clear, 60°F

Facility and Unit CCPC

Project No GW8836

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	24010943 05/2025	15.85	4490	~~4413.8~~ 4060.0	4490.0	± 5 %	☒ Yes ☐ No	
pH (4)			4.00	3.95	4.00	± 0.1 SU	☒ Yes ☐ No	
Mid-Day pH (4) check	—	—	4.00	—	—	± 0.1 SU	☐ Yes ☐ No	
pH (7)	24008587 06/2025	15.49	7.00	6.81	7.00	± 0.1 SU	☒ Yes ☐ No	
Mid-Day pH (7) check			7.00	—	—	± 0.1 SU	☐ Yes ☐ No	
pH (10)	24004946 06/2025	15.77	10.00	9.76	10.00	± 0.1 SU	☒ Yes ☐ No	
Mid-Day pH (10) check			10.00	—	—	± 0.1 SU	☐ Yes ☐ No	
ORP (mV)	24011792 06/2025	15.78	228	242.2	228.0	± 20mV	☒ Yes ☐ No	
DO (%) (1pt, 100% water saturated air cal)			100	101.76%	100.2	± 0 % saturation	☒ Yes ☐ No	
Turbidity 0 NTU			0	0	0	± 0.5 NTU	☒ Yes ☐ No	
Turbidity 1 NTU			1.00	0.94	1.00	± 0.5 NTU	☒ Yes ☐ No	
Turbidity 10 NTU			10.00	10.51	10.00	± 0.5 NTU	☒ Yes ☐ No	

EQUIPMENT CALIBRATION LOG

Field Technician: D. GencDate: 10/16/2024Time (start): 1045Time (finish): 1115Smartroll SN: 851413Turbidity Meter Type LaMotte 2020weSN: 1596-3019Weather Conditions SunnyFacility and Unit CCPCProject No: GW8836

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	#24010943 05/2025	21.82	4490	4726.7	—	+/- 5 %	☒ Yes No	
pH (4)			4.00	4.21	4.02	+/- 0.1 SU	☒ Yes No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	Yes No	
pH (7)	#24008587 06/2025	21.90	7.00	6.94	—	+/- 0.1 SU	☒ Yes No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No	
pH (10)	#24004996 06/2025	21.55	10.00	9.80	10.07	+/- 0.1 SU	☒ Yes No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No	
ORP (mV)	#24011792 06/2025	21.33	228	226.3	—	+/- 20mV	☒ Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	107.02	100.54	+/- 6 % saturation	☒ Yes No	
Turbidity 0 NTU			0	—0.23	—	+/- 0.5 NTU	☒ Yes No	
Turbidity 1 NTU			1.00	3.25	2.07	+/- 0.5 NTU	Yes ☒ No	
Turbidity 10 NTU			10.00	8.80	9.61	+/- 0.5 NTU	☒ Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician Zain Webb

Date 10-17-24

Time (start) 0740

Time (finish) 0805

Smartroll SN 883530

Turbidity Meter Type LaMotte 2020

SN 1571-3019

Weather Conditions Clear, 60°F

Facility and Unit CCPC

Project No GW8836

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	24010943 05/2025	12.22	4490	4669.9	4490.0	±0.5%	☒ Yes ☐ No	
pH (4)			4.00	3.95	4.00	±0.1 SL	☒ Yes ☐ No	
Mid-Day pH (4) check	—	—	4.00	—	—	±0.1 SL	Yes No	
pH (7)	24008587 06/2025	13.68	7.00	7.00	7.00	±0.1 SL	☒ Yes ☐ No	
Mid-Day pH (7) check			7.00	—	—	±0.1 SL	Yes No	
pH (10)	24004996 06/2025	14.18	10.00	10.09	10.00	±0.1 SL	☒ Yes ☐ No	
Mid-Day pH (10) check			10.00	—	—	±0.1 SL	Yes No	
ORP (mV)	24011792 06/2025	14.16	228	231.0	228.0	±20mV	☒ Yes ☐ No	
DO (%) (1pt, 100% water saturated air cal)			100	93.78	100%	±0.5% saturation	☒ Yes ☐ No	
Turbidity 0 NTU			0	0	0	±0.5 NTU	☒ Yes ☐ No	
Turbidity 1 NTU			1.00	1.00	1.00	±0.5 NTU	☒ Yes ☐ No	
Turbidity 10 NTU			10.00	10.07	10.00	±0.5 NTU	☒ Yes ☐ No	

EQUIPMENT CALIBRATION LOG

Field Technician: D. Ganc

Date: 10/17/2024

Time (start): 0730

Time (finish): 0800

SmartTroll SN: 851413

Turbidity Meter Type: LaMotte 2020we

SN: 1596-3019

Weather Conditions: Cloudy

Facility and Unit: CCPC

Project No.: GW8836

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	#24010943 05/2025	12.30	4490	5053.9	4490.8	+/- 5 %	☒ Yes No	
pH (4)			4.00	4.06	—	+/- 0.1 SU	☒ Yes No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	Yes No	
pH (7)	#24008587 06/2025	12.90	7.00	5.45	6.98	+/- 0.1 SU	☒ Yes No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No	
pH (10)	#24004996 06/2025	12.70	10.00	8.74	10.02	+/- 0.1 SU	☒ Yes No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No	
ORP (mV)	#24011792 06/2025	12.90	228	243.2	228.1	+/- 20mV	☒ Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	96.03	100.25	+/- 6 % saturation	☒ Yes No	
Turbidity 0 NTU			0	-0.16	—	+/- 0.5 NTU	☒ Yes No	
Turbidity 1 NTU			1.00	1.29	—	+/- 0.5 NTU	☒ Yes No	
Turbidity 10 NTU			10.00	6.97	10.18	+/- 0.5 NTU	☒ Yes No	

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-U1	SAMPLE ID: MW-U1-20241016
DATE: 10-16-24	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 37.35 feet to 37.35 feet	STATIC DEPTH TO WATER (feet): 10.84	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (37.35 feet - 10.84 feet) X 0.16 gallons/foot = 4.24 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.35	PURGING INITIATED AT: 1142	PURGING ENDED AT: 1212	TOTAL VOLUME PURGED (gallons): 7.0

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1142	1.0	1.0	200.00	10.84	7.92	22.67	198.65	6.78	2.27	146.6	clear
1147	1.0	2.0	200.00	11.45	7.92	22.53	192.95	6.77	1.91	460.6	
1152	1.0	3.0	200.00	11.45	7.93	22.29	191.56	6.78	1.23	500.5	
1157	1.0	4.0	200.00	11.45	7.93	22.27	190.27	6.76	1.09	531.3	
1202	1.0	5.0	200.00	11.45	7.94	22.36	189.39	6.75	0.84	555.5	
1207	1.0	6.0	200.00	11.45	7.94	22.49	189.36	6.76	0.88	574.7	
1212	1.0	7.0	200.00	11.45	7.95	22.45	188.38	6.72	0.86	595.7	
ZW 10-16-24											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Zain Webb / Geosyntec	SAMPLER(S) SIGNATURE(S): Zain Webb	SAMPLING INITIATED AT: 1217	SAMPLING ENDED AT: 1242
PUMP OR TUBING DEPTH IN WELL (feet): 32.35	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y ☒ (N) Filtration Equipment Type: _____	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y ☒ (N) TUBING Y ☒ (N (replaced))		DUPLICATE: Y ☒ (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-U1-20241016	1	HDPE	1.9L	HNO3	----	7.95	9315, 9320, Ra226, Ra228	APP	250
↓	1	HDPE	1.0L	NONE	----	7.95	SM4500, 2540C	APP	250
↓	1	HDPE	0.25L	HNO3	----	7.95	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:
 1. Well Sign Present: ☒ Yes ☐ No
 2. Well Access: open
 3. Sampling & Purging Equipment Condition: good
 4. Site Condition that may Affect Sampling Present? ☐ Yes (describe below) ☒ No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

TD = 37.40 ft

GROUNDWATER SAMPLING LOG

Pg 1 of 2

SITE NAME: CRISP COUNTY POWER COMMISSION		SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D1		SAMPLE ID: MW-D1-20241016	
DATE: 10-16-24			

PURGING DATA

WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 0.25		WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet): 15.20		PURGE PUMP TYPE OR BAILER: PP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22.83 feet - 15.20 feet) X 0.16 gallons/foot = 1.22 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5		PURGING INITIATED AT: 1333		PURGING ENDED AT: 1433		TOTAL VOLUME PURGED (gallons): 9.75			
TIME	VOLUME PURGED (gallons) <i>clear</i>	CUMUL. VOLUME PURGED (gallons) <i>clear</i>	PURGE RATE (gpm) <i>clear</i>	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1333	0.75	0.75	150	15.20	7.56	24.42	320.08	5.05	5.35	243.6	Clear
1338	0.75	1.5	150	15.33	7.58	24.08	319.93	4.98	4.47	578.0	
1343	0.75	2.25	150	15.37	7.54	24.29	319.96	4.73	1.47	683.2	
1348	0.75	3.0	150	15.38	7.49	24.46	317.70	3.89	1.02	705.5	
1353	0.75	3.75	150	15.38	7.41	24.43	313.89	3.73	0.93	718.6	
1358	0.75	4.5	150	15.38	7.28	24.65	305.01	3.38	0.76	630.5	
1303	0.75	5.25	150	15.39	7.11	24.52	293.04	3.07	0.69	729.4	
1408	0.75	6.0	150	15.39	7.04	24.56	287.32	2.85	0.61	641.4	
1413	0.75	6.75	150	15.39	6.96	24.51	281.62	2.79	0.55	742.2	
1418	0.75	7.5	150	15.39	6.93	24.72	279.85	2.70	0.77	647.4	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Zain Webb / Geosyntec				SAMPLER(S) SIGNATURE(S): Zain Webb				SAMPLING INITIATED AT: 1438		SAMPLING ENDED AT: 1516	
PUMP OR TUBING DEPTH IN WELL (feet): 17.5				TUBING MATERIAL CODE: LDPE				FIELD-FILTERED: Y ☒ (N)		FILTER SIZE: — µm	
FIELD DECONTAMINATION: PUMP Y ☒ (N)				TUBING Y ☒ (N (replaced))				DUPLICATE: Y ☒ (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLIN G EQUIPME NT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-D1-20241016	1	HDPE	1.9L	HNO3	----	6.84	9315, 9320, Ra226, Ra228		APP 250		
↓	1	HDPE	1.0L	NONE	----	6.84	SM4500, 2540C		APP 250		
↓	1	HDPE	0.25L	HNO3	----	6.84	6020, 7470A		APP 250		

FIELD SAMPLING CONDITIONS:

- Well Sign Present: ☒ Yes ☐ No
- Well Access: open
- Sampling & Purging Equipment Condition: good
- Site Condition that may Affect Sampling Present? ☐ Yes (describe below) ☒ No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)

pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

TD = 22.84 ft

GROUNDWATER SAMPLING LOG

Pg 2 of 2

SITE NAME: CRISP COUNTY POWER COMMISSION		SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-01		DATE: 10-16-24	

PURGING DATA

WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 0.25		WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet): 15.20		PURGE PUMP TYPE OR BAILER: PP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22.83 feet - 15.20 feet) X 0.16 gallons/foot = 1.22 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5		PURGING INITIATED AT: 1333		PURGING ENDED AT: 1433		TOTAL VOLUME PURGED (gallons): 9.75			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1423	0.75	8.25	150	15.37	6.87	24.82	274.29	2.64	0.78	753.2	
1428	0.75	9.0	150	15.39	6.87	24.90	273.92	2.58	0.75	656.7	
1433	0.75	9.75	150	15.40	6.84	24.85	270.10	2.47	0.72	765.7	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Rain Webb / Geosystems				SAMPLER(S) SIGNATURE(S): Rain Webb				SAMPLING INITIATED AT: 1438		SAMPLING ENDED AT: 1516	
PUMP OR TUBING DEPTH IN WELL (feet): 17.5				TUBING MATERIAL CODE: LDPE		FIELD-FILTERED: Y ☒ N ☐ Filtration Equipment Type: ---				FILTER SIZE: --- µm	
FIELD DECONTAMINATION: PUMP Y ☒ TUBING Y ☒ (replaced)				DUPLICATE: Y ☒ N ☐							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLIN G EQUIPME NT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					SAMPLE PUMP FLOW RATE (mL per minute)
MW-01-20241016	1	HDPE	1.9L	HNO3	----	6.84	9315, 9320, Ra226, Ra228		APP		250
↓	1	HDPE	1.0L	NONE	----	6.84	SM4500, 2540C		APP		250
↓	1	HDPE	0.25L	HNO3	----	6.84	6020, 7470A		APP		250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ☒ Yes ☐ No2. Well Access: **open**3. Sampling & Purging Equipment Condition: **good**4. Site Condition that may Affect Sampling Present? ☐ Yes (describe below) ☒ No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)

pH: ± 0.1 units Specific Conductance: $\pm 5\%$ Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

SITE NAME: CRISP COUNTY POWER COMMISSION		SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D2		SAMPLE ID: MW-D2-20241016	
		DATE: 10/16/24	

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.75	PURGE PUMP TYPE OR BAILER: PP
-------------------------------------	--	---	---	---

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (22.69 feet - 12.75 feet) X 0.16 gallons/foot = 1.38 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons): 4
--	--	-------------------------------	---------------------------	-------------------------------------

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Baller; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: D. Genc	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1520
--	---	-----------------------------	-------------------------

PUMP OR TUBING DEPTH IN WELL (feet):	18	TUBING MATERIAL CODE:	LDPE	FIELD-FILTERED: Y <u>N</u>	FILTER SIZE: <u>1</u> μm
--------------------------------------	----	-----------------------	------	----------------------------	--------------------------

FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
------------------------	------	---	---	--------	---	--------------	------------	---	---

[illegible]

1. Well Sign Present: ✓ Yes _____ No

2. Well Access: Good

3. Sampling & Purging Equipment Condition: Good

4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) ✓ No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;
S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

pH: ± 0.1 units **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** 0.2 mg/L or 10% change in saturation (whichever is greater) **Turbidity:** readings < 10 NTU; **ORP:** $+ 20$ mV.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION		SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D3		SAMPLE ID: MW-D3-20241016	
		DATE: 10/16/24	

PURGING DATA

WELL		TUBING		WELL SCREEN INTERVAL				STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:	
DIAMETER (inches): 2		DIAMETER (inches): 0.25		DEPTH: feet to feet		STATIC DEPTH TO WATER (feet): 6.77		PURGE PUMP TYPE OR BAILER:		PP	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22.70 feet - 6.77 feet) X 0.16 gallons/foot = 2.55 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5			PURGING INITIATED AT: 1545		PURGING ENDED AT: 1635		TOTAL VOLUME PURGED (gallons): 5	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm) mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1545	start	purging									
1550	1	1	200	8.44	7.71	26.36	349.70	5.22	2.33	70.9	clear
1555	1	2	200	8.51	7.51	26.24	364.04	2.97	1.17	68.3	"
1600	1	3	200	8.54	7.47	25.95	367.23	2.54	0.80	65.5	"
1605	1	4	200	8.55	7.47	25.60	366.45	2.51	0.89	79.3	"
1610	1	5	200	8.56	7.48	25.74	363.59	2.54	0.80	63.5	"
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>D. Gerc</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			SAMPLING INITIATED AT: <u>1610</u>		SAMPLING ENDED AT: <u>1635</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>17.5</u>				TUBING MATERIAL CODE: <u>LDPE</u>			FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type: _____		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y <u>N</u>				TUBING Y <u>N</u> (replaced)			DUPLICATE: Y <u>N</u>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>03-2024-06</u>	<u>1</u>	<u>HDPE</u>	<u>1.9L</u>	<u>HNO3</u>	<u>----</u>	<u>7.48</u>	<u>9315, 9320, Ra226, Ra228</u>		<u>APP</u>	<u>250</u>	
<u>↓</u>	<u>1</u>	<u>HDPE</u>	<u>1.0L</u>	<u>NONE</u>	<u>----</u>	<u>7.48</u>	<u>SM4500, 2540C</u>		<u>APP</u>	<u>250</u>	
	<u>1</u>	<u>HDPE</u>	<u>0.25L</u>	<u>HNO3</u>	<u>----</u>	<u>7.48</u>	<u>6020, 7470A</u>		<u>APP</u>	<u>250</u>	
FIELD SAMPLING CONDITIONS:											
1. Well Sign Present: <u>✓</u> Yes _____ No											
2. Well Access: <u>Good</u>											
3. Sampling & Purging Equipment Condition: <u>Good</u>											
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) <u>X</u> No											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)

pH: ± 0.1 units **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** 0.2 mg/L or 10% change in saturation (whichever is greater) **Turbidity:** readings < 10 NTU **ORP:** $+ 20$ mV.

APPENDIX B

Laboratory Analytical Reports

April 2024

ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
Geosyntec Consultants Inc
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Generated 5/10/2024 10:04:11 AM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-255088-1

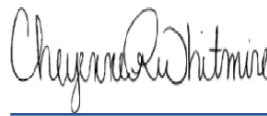
Eurofins Pensacola

Job Notes

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Authorization



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Authorized for release by
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(850)471-6222

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Case Narrative

Client: Geosyntec Consultants Inc
Project: Crisp County Power

Job ID: 400-255088-1

Job ID: 400-255088-1

Eurofins Pensacola

Job Narrative 400-255088-1

Receipt

The samples were received on 4/26/2024 9:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

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

Eurofins Pensacola

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: MW-D1-20240423

Lab Sample ID: 400-255088-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.099		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	21		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	84		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.7		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.047	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.25				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D2-20240423

Lab Sample ID: 400-255088-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.10		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	110		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	330		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.7		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.059	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	11		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.80				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D3-20240423

Lab Sample ID: 400-255088-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0012	J	0.0013	0.00086	mg/L	1		6020B	Total Recoverable
Barium	0.038		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.12		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	64		0.25	0.14	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0049	J	0.010	0.00086	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	22		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.50				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-22-20240423

Lab Sample ID: 400-255088-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.012		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.098		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	20		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	80		5.0	5.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: DUP-22-20240423 (Continued)

Lab Sample ID: 400-255088-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	11		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255088-1	MW-D1-20240423	Water	04/23/24 14:07	04/26/24 09:03
400-255088-2	MW-D2-20240423	Water	04/23/24 14:02	04/26/24 09:03
400-255088-3	MW-D3-20240423	Water	04/23/24 15:49	04/26/24 09:03
400-255088-4	DUP-22-20240423	Water	04/23/24 00:00	04/26/24 09:03

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: MW-D1-20240423

Lab Sample ID: 400-255088-1

Date Collected: 04/23/24 14:07

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 22:14	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 22:14	1
Barium	0.015		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 22:14	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 22:14	1
Boron	0.099		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 22:14	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 22:14	1
Calcium	21		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 22:14	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 22:14	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 22:14	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 22:14	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 22:14	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 22:14	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 22:14	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 22:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	84		5.0	5.0	mg/L			04/30/24 10:15	1
Chloride (SM 4500 Cl- E)	4.7		2.0	1.4	mg/L			05/02/24 12:25	1
Fluoride (SM 4500 F C)	0.047	J	0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	12		5.0	1.4	mg/L			05/08/24 09:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.25				SU			04/23/24 13:07	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: MW-D2-20240423

Lab Sample ID: 400-255088-2

Date Collected: 04/23/24 14:02

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 22:10	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 22:10	1
Barium	0.13		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 22:10	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 22:10	1
Boron	0.10		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 22:10	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 22:10	1
Calcium	110		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 22:10	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 22:10	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 22:10	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 22:10	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 22:10	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 22:10	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 22:10	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 22:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	330		5.0	5.0	mg/L			04/30/24 10:15	1
Chloride (SM 4500 Cl- E)	3.7		2.0	1.4	mg/L			05/02/24 12:25	1
Fluoride (SM 4500 F C)	0.059	J	0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	11		5.0	1.4	mg/L			05/08/24 09:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.80				SU			04/23/24 13:02	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: MW-D3-20240423

Lab Sample ID: 400-255088-3

Date Collected: 04/23/24 15:49

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 22:06	1
Arsenic	0.0012	J	0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 22:06	1
Barium	0.038		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 22:06	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 22:06	1
Boron	0.12		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 22:06	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 22:06	1
Calcium	64		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 22:06	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 22:06	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 22:06	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 22:06	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 22:06	1
Molybdenum	0.0049	J	0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 22:06	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 22:06	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 22:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	220		5.0	5.0	mg/L			04/30/24 10:15	1
Chloride (SM 4500 Cl- E)	2.5		2.0	1.4	mg/L			05/02/24 12:26	1
Fluoride (SM 4500 F C)	0.13		0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	22		5.0	1.4	mg/L			05/08/24 09:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.50				SU			04/23/24 14:49	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: DUP-22-20240423

Lab Sample ID: 400-255088-4

Date Collected: 04/23/24 00:00

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 22:02	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 22:02	1
Barium	0.012		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 22:02	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 22:02	1
Boron	0.098		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 22:02	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 22:02	1
Calcium	20		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 22:02	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 22:02	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 22:02	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 22:02	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 22:02	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 22:02	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 22:02	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 22:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	80		5.0	5.0	mg/L			04/29/24 16:01	1
Chloride (SM 4500 Cl- E)	2.8		2.0	1.4	mg/L			05/02/24 12:27	1
Fluoride (SM 4500 F C)	0.040	J	0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	11		5.0	1.4	mg/L			05/08/24 09:55	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: MW-D1-20240423

Lab Sample ID: 400-255088-1

Date Collected: 04/23/24 14:07

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 22:14
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 09:57
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670251	CJK	EET PEN	05/02/24 12:25
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	670842	KWS	EET PEN	05/08/24 09:53
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/23/24 13:07

Client Sample ID: MW-D2-20240423

Lab Sample ID: 400-255088-2

Date Collected: 04/23/24 14:02

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 22:10
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 09:55
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670251	CJK	EET PEN	05/02/24 12:25
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	670842	KWS	EET PEN	05/08/24 09:54
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/23/24 13:02

Client Sample ID: MW-D3-20240423

Lab Sample ID: 400-255088-3

Date Collected: 04/23/24 15:49

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 22:06
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 09:53
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670251	CJK	EET PEN	05/02/24 12:26
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	670842	KWS	EET PEN	05/08/24 09:55
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/23/24 14:49

Eurofins Pensacola

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Client Sample ID: DUP-22-20240423

Lab Sample ID: 400-255088-4

Date Collected: 04/23/24 00:00

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 22:02
Total/NA	Prep	7470A			836618	DW	EET SAV	05/06/24 16:53
Total/NA	Analysis	7470A		1	836859	DW	EET SAV	05/07/24 14:15
Total/NA	Analysis	SM 2540C		1	669793	HA	EET PEN	04/29/24 16:01
Total/NA	Analysis	SM 4500 CI- E		1	670251	CJK	EET PEN	05/02/24 12:27
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	670842	KWS	EET PEN	05/08/24 09:55

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Metals

Prep Batch: 835692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total Recoverable	Water	3005A	
400-255088-2	MW-D2-20240423	Total Recoverable	Water	3005A	
400-255088-3	MW-D3-20240423	Total Recoverable	Water	3005A	
400-255088-4	DUP-22-20240423	Total Recoverable	Water	3005A	
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-255090-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-255090-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 835904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total Recoverable	Water	6020B	835692
400-255088-2	MW-D2-20240423	Total Recoverable	Water	6020B	835692
400-255088-3	MW-D3-20240423	Total Recoverable	Water	6020B	835692
400-255088-4	DUP-22-20240423	Total Recoverable	Water	6020B	835692
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	6020B	835692
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	6020B	835692
400-255090-C-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	835692
400-255090-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	835692

Prep Batch: 836157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	7470A	
400-255088-2	MW-D2-20240423	Total/NA	Water	7470A	
400-255088-3	MW-D3-20240423	Total/NA	Water	7470A	
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255090-C-7-C MS	Matrix Spike	Total/NA	Water	7470A	
400-255090-C-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 836331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	7470A	836157
400-255088-2	MW-D2-20240423	Total/NA	Water	7470A	836157
400-255088-3	MW-D3-20240423	Total/NA	Water	7470A	836157
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	836157
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	836157
400-255090-C-7-C MS	Matrix Spike	Total/NA	Water	7470A	836157
400-255090-C-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	836157

Prep Batch: 836618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-4	DUP-22-20240423	Total/NA	Water	7470A	
MB 680-836618/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836618/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255088-4 MS	DUP-22-20240423	Total/NA	Water	7470A	
400-255088-4 MSD	DUP-22-20240423	Total/NA	Water	7470A	

Analysis Batch: 836859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-4	DUP-22-20240423	Total/NA	Water	7470A	836618

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Metals (Continued)

Analysis Batch: 836859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-836618/1-A	Method Blank	Total/NA	Water	7470A	836618
LCS 680-836618/2-A	Lab Control Sample	Total/NA	Water	7470A	836618
400-255088-4 MS	DUP-22-20240423	Total/NA	Water	7470A	836618
400-255088-4 MSD	DUP-22-20240423	Total/NA	Water	7470A	836618

General Chemistry

Analysis Batch: 669793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-4	DUP-22-20240423	Total/NA	Water	SM 2540C	
MB 400-669793/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-669793/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-255088-4 DU	DUP-22-20240423	Total/NA	Water	SM 2540C	

Analysis Batch: 669873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	SM 2540C	
400-255088-2	MW-D2-20240423	Total/NA	Water	SM 2540C	
400-255088-3	MW-D3-20240423	Total/NA	Water	SM 2540C	
MB 400-669873/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-669873/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254872-D-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 669910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	SM 4500 F C	
400-255088-2	MW-D2-20240423	Total/NA	Water	SM 4500 F C	
400-255088-3	MW-D3-20240423	Total/NA	Water	SM 4500 F C	
400-255088-4	DUP-22-20240423	Total/NA	Water	SM 4500 F C	
MB 400-669910/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-669910/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-669910/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-255088-1 MS	MW-D1-20240423	Total/NA	Water	SM 4500 F C	
400-255088-1 MSD	MW-D1-20240423	Total/NA	Water	SM 4500 F C	
400-255090-B-5 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 670251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	SM 4500 Cl- E	
400-255088-2	MW-D2-20240423	Total/NA	Water	SM 4500 Cl- E	
400-255088-3	MW-D3-20240423	Total/NA	Water	SM 4500 Cl- E	
400-255088-4	DUP-22-20240423	Total/NA	Water	SM 4500 Cl- E	
MB 400-670251/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-670251/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-670251/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-254864-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-254864-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 670842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

General Chemistry (Continued)

Analysis Batch: 670842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-2	MW-D2-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255088-3	MW-D3-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255088-4	DUP-22-20240423	Total/NA	Water	SM 4500 SO4 E	
MB 400-670842/13	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-670842/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-670842/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-255088-1 MS	MW-D1-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255088-1 MSD	MW-D1-20240423	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 671089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	Field Sampling	
400-255088-2	MW-D2-20240423	Total/NA	Water	Field Sampling	
400-255088-3	MW-D3-20240423	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-835692/1-A

Matrix: Water

Analysis Batch: 835904

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 835692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000550	J	0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 20:53	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 20:53	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 20:53	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 20:53	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 20:53	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 20:53	1

Lab Sample ID: LCS 680-835692/2-A

Matrix: Water

Analysis Batch: 835904

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 835692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0548		mg/L		110	80 - 120
Arsenic	0.100	0.108		mg/L		108	80 - 120
Barium	0.100	0.109		mg/L		109	80 - 120
Beryllium	0.0500	0.0567		mg/L		113	80 - 120
Boron	0.400	0.463		mg/L		116	80 - 120
Cadmium	0.0500	0.0561		mg/L		112	80 - 120
Calcium	5.00	5.22		mg/L		104	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.0500	0.0544		mg/L		109	80 - 120
Lead	0.500	0.528		mg/L		106	80 - 120
Lithium	0.500	0.547		mg/L		109	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Thallium	0.0500	0.0511		mg/L		102	80 - 120

Lab Sample ID: 400-255090-C-1-B MS

Matrix: Water

Analysis Batch: 835904

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 835692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00042	J B	0.0500	0.0560		mg/L		111	75 - 125
Arsenic	ND		0.100	0.109		mg/L		109	75 - 125
Barium	0.018		0.100	0.130		mg/L		112	75 - 125
Beryllium	ND		0.0500	0.0555		mg/L		111	75 - 125
Boron	0.027	J	0.400	0.455		mg/L		107	75 - 125
Cadmium	ND		0.0500	0.0571		mg/L		114	75 - 125
Calcium	52		5.00	53.8	4	mg/L		44	75 - 125
Chromium	ND		0.100	0.113		mg/L		112	75 - 125
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

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

Lab Sample ID: 400-255090-C-1-B MS
Matrix: Water
Analysis Batch: 835904

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 835692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.513		mg/L		103	75 - 125
Lithium	ND		0.500	0.525		mg/L		105	75 - 125
Molybdenum	ND		0.100	0.108		mg/L		108	75 - 125
Selenium	ND		0.100	0.111		mg/L		111	75 - 125
Thallium	ND		0.0500	0.0520		mg/L		104	75 - 125

Lab Sample ID: 400-255090-C-1-C MSD
Matrix: Water
Analysis Batch: 835904

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 835692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00042	J B	0.0500	0.0512		mg/L		102	75 - 125	9	20
Arsenic	ND		0.100	0.101		mg/L		101	75 - 125	8	20
Barium	0.018		0.100	0.119		mg/L		101	75 - 125	9	20
Beryllium	ND		0.0500	0.0532		mg/L		106	75 - 125	4	20
Boron	0.027	J	0.400	0.438		mg/L		103	75 - 125	4	20
Cadmium	ND		0.0500	0.0514		mg/L		103	75 - 125	10	20
Calcium	52		5.00	48.7	4	mg/L		-59	75 - 125	10	20
Chromium	ND		0.100	0.103		mg/L		103	75 - 125	9	20
Cobalt	ND		0.0500	0.0511		mg/L		102	75 - 125	7	20
Lead	ND		0.500	0.496		mg/L		99	75 - 125	3	20
Lithium	ND		0.500	0.507		mg/L		101	75 - 125	3	20
Molybdenum	ND		0.100	0.0982		mg/L		98	75 - 125	9	20
Selenium	ND		0.100	0.102		mg/L		102	75 - 125	8	20
Thallium	ND		0.0500	0.0481		mg/L		96	75 - 125	8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-836157/1-A
Matrix: Water
Analysis Batch: 836331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 836157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/03/24 20:07	1

Lab Sample ID: LCS 680-836157/2-A
Matrix: Water
Analysis Batch: 836331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 836157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

Lab Sample ID: 400-255090-C-7-C MS
Matrix: Water
Analysis Batch: 836331

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 836157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00104		mg/L		104	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 400-255090-C-7-D MSD

Matrix: Water

Analysis Batch: 836331

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 836157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00103		mg/L		103	80 - 120	1	20

Lab Sample ID: MB 680-836618/1-A

Matrix: Water

Analysis Batch: 836859

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 836618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:11	1

Lab Sample ID: LCS 680-836618/2-A

Matrix: Water

Analysis Batch: 836859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 836618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

Lab Sample ID: 400-255088-4 MS

Matrix: Water

Analysis Batch: 836859

Client Sample ID: DUP-22-20240423

Prep Type: Total/NA

Prep Batch: 836618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00101		mg/L		101	80 - 120

Lab Sample ID: 400-255088-4 MSD

Matrix: Water

Analysis Batch: 836859

Client Sample ID: DUP-22-20240423

Prep Type: Total/NA

Prep Batch: 836618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00102		mg/L		102	80 - 120	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-669793/1

Matrix: Water

Analysis Batch: 669793

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			04/29/24 16:01	1

Lab Sample ID: LCS 400-669793/2

Matrix: Water

Analysis Batch: 669793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	288		mg/L		98	78 - 122

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 400-255088-4 DU

Matrix: Water

Analysis Batch: 669793

Client Sample ID: DUP-22-20240423

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	80		78.0		mg/L		3	5

Lab Sample ID: MB 400-669873/1

Matrix: Water

Analysis Batch: 669873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			04/30/24 10:15	1

Lab Sample ID: LCS 400-669873/2

Matrix: Water

Analysis Batch: 669873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	286		mg/L		98	78 - 122

Lab Sample ID: 400-254872-D-5 DU

Matrix: Water

Analysis Batch: 669873

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	440		434		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-670251/13

Matrix: Water

Analysis Batch: 670251

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			05/02/24 12:17	1

Lab Sample ID: LCS 400-670251/14

Matrix: Water

Analysis Batch: 670251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.2		mg/L		96	90 - 110

Lab Sample ID: MRL 400-670251/15

Matrix: Water

Analysis Batch: 670251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	ND		mg/L		53	50 - 150

Eurofins Pensacola

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-254864-B-1 MS

Matrix: Water

Analysis Batch: 670251

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2100		10.0	2150	4	mg/L		98	73 - 120		

Lab Sample ID: 400-254864-B-1 MSD

Matrix: Water

Analysis Batch: 670251

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2100		10.0	2150	4	mg/L		87	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-669910/9

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			04/30/24 11:35	1

Lab Sample ID: LCS 400-669910/11

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	5.00	4.95		mg/L		99	90 - 110		

Lab Sample ID: MRL 400-669910/10

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.100	0.0917	J	mg/L		92	50 - 150		

Lab Sample ID: 400-255088-1 MS

Matrix: Water

Analysis Batch: 669910

Client Sample ID: MW-D1-20240423

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.047	J	0.100	0.137		mg/L		90	75 - 125		

Lab Sample ID: 400-255088-1 MSD

Matrix: Water

Analysis Batch: 669910

Client Sample ID: MW-D1-20240423

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.047	J	0.100	0.131		mg/L		85	75 - 125	4	4

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-255090-B-5 DU
Matrix: Water
Analysis Batch: 669910

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.050	J	0.0504	J	mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-670842/13
Matrix: Water
Analysis Batch: 670842

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			05/08/24 09:52	1

Lab Sample ID: LCS 400-670842/14
Matrix: Water
Analysis Batch: 670842

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	14.4	J	mg/L		96	90 - 110

Lab Sample ID: MRL 400-670842/12
Matrix: Water
Analysis Batch: 670842

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.62	J	mg/L		92	50 - 150

Lab Sample ID: 400-255088-1 MS
Matrix: Water
Analysis Batch: 670842

Client Sample ID: MW-D1-20240423
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	12		10.0	22.4		mg/L		108	77 - 128

Lab Sample ID: 400-255088-1 MSD
Matrix: Water
Analysis Batch: 670842

Client Sample ID: MW-D1-20240423
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	12		10.0	22.0		mg/L		104	77 - 128	2	5

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

[illegible]

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255088-1

Login Number: 255088

List Source: Eurofins Pensacola

List Number: 1

Creator: Pardonner, Brett

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	2.0°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24

Eurofins Pensacola

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
Geosyntec Consultants Inc
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-255088-2

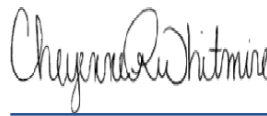
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Job Notes

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

Authorization



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Authorized for release by
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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255088-1	MW-D1-20240423	Water	04/23/24 14:07	04/26/24 09:03
400-255088-2	MW-D2-20240423	Water	04/23/24 14:02	04/26/24 09:03
400-255088-3	MW-D3-20240423	Water	04/23/24 15:49	04/26/24 09:03
400-255088-4	DUP-22-20240423	Water	04/23/24 00:00	04/26/24 09:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Client Sample ID: MW-D1-20240423

Lab Sample ID: 400-255088-1

Date Collected: 04/23/24 14:07

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0526	U	0.128	0.128	1.00	0.236	pCi/L	05/02/24 08:33	05/24/24 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					05/02/24 08:33	05/24/24 07:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.873		0.422	0.430	1.00	0.591	pCi/L	05/02/24 08:41	05/23/24 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					05/02/24 08:41	05/23/24 11:37	1
Y Carrier	81.1		30 - 110					05/02/24 08:41	05/23/24 11:37	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.925		0.441	0.449	5.00	0.591	pCi/L		05/25/24 06:59	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Client Sample ID: MW-D2-20240423

Lab Sample ID: 400-255088-2

Date Collected: 04/23/24 14:02

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0204	U	0.129	0.129	1.00	0.271	pCi/L	05/02/24 08:33	05/24/24 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					05/02/24 08:33	05/24/24 07:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.209	U	0.278	0.278	1.00	0.465	pCi/L	05/02/24 08:41	05/23/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					05/02/24 08:41	05/23/24 11:44	1
Y Carrier	82.2		30 - 110					05/02/24 08:41	05/23/24 11:44	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.189	U	0.306	0.306	5.00	0.465	pCi/L		05/25/24 06:59	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Client Sample ID: MW-D3-20240423

Lab Sample ID: 400-255088-3

Date Collected: 04/23/24 15:49

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.221	U	0.165	0.166	1.00	0.235	pCi/L	05/02/24 08:33	05/24/24 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					05/02/24 08:33	05/24/24 07:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.108	U	0.242	0.242	1.00	0.493	pCi/L	05/02/24 08:41	05/23/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					05/02/24 08:41	05/23/24 11:44	1
Y Carrier	81.1		30 - 110					05/02/24 08:41	05/23/24 11:44	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.113	U	0.293	0.293	5.00	0.493	pCi/L		05/25/24 06:59	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Client Sample ID: DUP-22-20240423

Lab Sample ID: 400-255088-4

Date Collected: 04/23/24 00:00

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193	U	0.171	0.172	1.00	0.262	pCi/L	05/02/24 08:33	05/24/24 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:33	05/24/24 07:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.443	U	0.316	0.319	1.00	0.475	pCi/L	05/02/24 08:41	05/23/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:41	05/23/24 11:44	1
Y Carrier	80.0		30 - 110					05/02/24 08:41	05/23/24 11:44	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.636		0.359	0.362	5.00	0.475	pCi/L		05/25/24 06:59	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Client Sample ID: MW-D1-20240423

Lab Sample ID: 400-255088-1

Date Collected: 04/23/24 14:07

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659708	MLT	EET SL	05/02/24 08:33
Total/NA	Analysis	9315		1	663324	SCB	EET SL	05/24/24 07:54
Total/NA	Prep	PrecSep_0			659781	MLT	EET SL	05/02/24 08:41
Total/NA	Analysis	9320		1	662988	SCB	EET SL	05/23/24 11:37
Total/NA	Analysis	Ra226_Ra228		1	663384	FLC	EET SL	05/25/24 06:59

Client Sample ID: MW-D2-20240423

Lab Sample ID: 400-255088-2

Date Collected: 04/23/24 14:02

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659708	MLT	EET SL	05/02/24 08:33
Total/NA	Analysis	9315		1	663324	SCB	EET SL	05/24/24 07:54
Total/NA	Prep	PrecSep_0			659781	MLT	EET SL	05/02/24 08:41
Total/NA	Analysis	9320		1	663153	SCB	EET SL	05/23/24 11:44
Total/NA	Analysis	Ra226_Ra228		1	663384	FLC	EET SL	05/25/24 06:59

Client Sample ID: MW-D3-20240423

Lab Sample ID: 400-255088-3

Date Collected: 04/23/24 15:49

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659708	MLT	EET SL	05/02/24 08:33
Total/NA	Analysis	9315		1	663324	SCB	EET SL	05/24/24 07:54
Total/NA	Prep	PrecSep_0			659781	MLT	EET SL	05/02/24 08:41
Total/NA	Analysis	9320		1	663153	SCB	EET SL	05/23/24 11:44
Total/NA	Analysis	Ra226_Ra228		1	663384	FLC	EET SL	05/25/24 06:59

Client Sample ID: DUP-22-20240423

Lab Sample ID: 400-255088-4

Date Collected: 04/23/24 00:00

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659708	MLT	EET SL	05/02/24 08:33
Total/NA	Analysis	9315		1	663324	SCB	EET SL	05/24/24 07:54
Total/NA	Prep	PrecSep_0			659781	MLT	EET SL	05/02/24 08:41
Total/NA	Analysis	9320		1	663153	SCB	EET SL	05/23/24 11:44
Total/NA	Analysis	Ra226_Ra228		1	663384	FLC	EET SL	05/25/24 06:59

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Pensacola

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Rad

Prep Batch: 659708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	PrecSep-21	
400-255088-2	MW-D2-20240423	Total/NA	Water	PrecSep-21	
400-255088-3	MW-D3-20240423	Total/NA	Water	PrecSep-21	
400-255088-4	DUP-22-20240423	Total/NA	Water	PrecSep-21	
MB 160-659708/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-659708/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
380-92936-O-1-B DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 659781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255088-1	MW-D1-20240423	Total/NA	Water	PrecSep_0	
400-255088-2	MW-D2-20240423	Total/NA	Water	PrecSep_0	
400-255088-3	MW-D3-20240423	Total/NA	Water	PrecSep_0	
400-255088-4	DUP-22-20240423	Total/NA	Water	PrecSep_0	
MB 160-659781/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-659781/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
380-92936-O-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-659708/1-A

Matrix: Water

Analysis Batch: 663322

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 659708

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03158	U	0.120	0.120	1.00	0.232	pCi/L	05/02/24 08:33	05/24/24 08:01	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					05/02/24 08:33	05/24/24 08:01	1

Lab Sample ID: LCS 160-659708/2-A

Matrix: Water

Analysis Batch: 663322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 659708

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	11.07		1.35	1.00	0.270	pCi/L	98	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	87.3		30 - 110							

Lab Sample ID: 380-92936-O-1-B DU

Matrix: Water

Analysis Batch: 663322

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 659708

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.321		0.08613	U	0.158	1.00	0.173	pCi/L	0.70	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	97.5		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-659781/1-A

Matrix: Water

Analysis Batch: 662988

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 659781

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2856	U	0.320	0.321	1.00	0.524	pCi/L	05/02/24 08:41	05/23/24 11:32	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					05/02/24 08:41	05/23/24 11:32	1
Y Carrier	77.8		30 - 110					05/02/24 08:41	05/23/24 11:32	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-659781/2-A
Matrix: Water
Analysis Batch: 662988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 659781

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228		8.92	9.708		1.35	1.00	0.518	pCi/L	109	75 - 125		
	LCS	LCS										
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	87.3		30 - 110									
Y Carrier	78.1		30 - 110									

Lab Sample ID: 380-92936-O-1-D DU
Matrix: Water
Analysis Batch: 662988

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 659781

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit		RER	RER Limit
Radium-228	0.459		0.3819		0.302	1.00	0.279	pCi/L		0.12	1
	DU	DU									
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	97.5		30 - 110								
Y Carrier	79.3		30 - 110								



Eurofins Pensacola
3355 McLeMORE Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255088-2

Login Number: 255088

List Source: Eurofins Pensacola

List Number: 1

Creator: Pardonner, Brett

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	2.0°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255088-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
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JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-255094-1

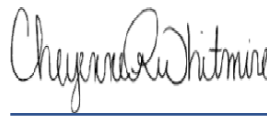
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Job Notes

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Authorization



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Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: MW-U1-20240423

Lab Sample ID: 400-255094-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0018	J	0.0025	0.00089	mg/L	1			6020B	Total
										Recoverable
Calcium	33		0.25	0.14	mg/L	1			6020B	Total
										Recoverable
Chromium	0.0012	J	0.0025	0.0012	mg/L	1			6020B	Total
										Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1			SM 2540C	Total/NA
Chloride	1.5	J	2.0	1.4	mg/L	1			SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.022	mg/L	1			SM 4500 F C	Total/NA
Sulfate	2.3	J	5.0	1.4	mg/L	1			SM 4500 SO4 E	Total/NA
Field pH	7.92				SU	1			Field Sampling	Total/NA

Client Sample ID: MW-U2-20240423

Lab Sample ID: 400-255094-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0092		0.0025	0.00089	mg/L	1			6020B	Total
										Recoverable
Calcium	12		0.25	0.14	mg/L	1			6020B	Total
										Recoverable
Selenium	0.0012	J	0.0013	0.00099	mg/L	1			6020B	Total
										Recoverable
Total Dissolved Solids	58		5.0	5.0	mg/L	1			SM 2540C	Total/NA
Fluoride	0.041	J	0.10	0.022	mg/L	1			SM 4500 F C	Total/NA
Sulfate	23		5.0	1.4	mg/L	1			SM 4500 SO4 E	Total/NA
Field pH	7.37				SU	1			Field Sampling	Total/NA

Client Sample ID: EB-20240424

Lab Sample ID: 400-255094-3

No Detections.

Client Sample ID: FB-20240424

Lab Sample ID: 400-255094-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255094-1	MW-U1-20240423	Water	04/23/24 12:27	04/26/24 09:03
400-255094-2	MW-U2-20240423	Water	04/23/24 12:37	04/26/24 09:03
400-255094-3	EB-20240424	Water	04/24/24 13:20	04/26/24 09:03
400-255094-4	FB-20240424	Water	04/24/24 12:50	04/26/24 09:03

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: MW-U1-20240423

Lab Sample ID: 400-255094-1

Date Collected: 04/23/24 12:27

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:46	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:46	1
Barium	0.0018	J	0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:46	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:46	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:46	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:46	1
Calcium	33		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:46	1
Chromium	0.0012	J	0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:46	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:46	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:46	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:46	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:46	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:46	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	120		5.0	5.0	mg/L			04/30/24 10:15	1
Chloride (SM 4500 Cl- E)	1.5	J	2.0	1.4	mg/L			05/02/24 17:31	1
Fluoride (SM 4500 F C)	0.050	J	0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	2.3	J	5.0	1.4	mg/L			05/10/24 11:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.92				SU			04/23/24 11:27	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: MW-U2-20240423

Lab Sample ID: 400-255094-2

Date Collected: 04/23/24 12:37

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:50	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:50	1
Barium	0.0092		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:50	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:50	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:50	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:50	1
Calcium	12		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:50	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:50	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:50	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:50	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:50	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:50	1
Selenium	0.0012	J	0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:50	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	58		5.0	5.0	mg/L			04/30/24 10:15	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:31	1
Fluoride (SM 4500 F C)	0.041	J	0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	23		5.0	1.4	mg/L			05/10/24 11:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.37				SU			04/23/24 11:37	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: EB-20240424

Lab Sample ID: 400-255094-3

Date Collected: 04/24/24 13:20

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:54	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:54	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:54	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:54	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:54	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:54	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:54	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:54	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:54	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:54	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:54	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:54	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:54	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND		5.0	5.0	mg/L			05/01/24 12:14	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:32	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			05/10/24 11:14	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: FB-20240424

Lab Sample ID: 400-255094-4

Date Collected: 04/24/24 12:50

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:58	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:58	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:58	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:58	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:58	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:58	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:58	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:58	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:58	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:58	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:58	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:58	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:58	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND		5.0	5.0	mg/L			05/01/24 12:14	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:33	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			05/10/24 11:14	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: MW-U1-20240423

Lab Sample ID: 400-255094-1

Date Collected: 04/23/24 12:27

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:46
Total/NA	Prep	7470A			836618	DW	EET SAV	05/06/24 16:53
Total/NA	Analysis	7470A		1	836859	DW	EET SAV	05/07/24 14:22
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:31
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:12
Total/NA	Analysis	Field Sampling		1	671263	C1H	EET PEN	04/23/24 11:27

Client Sample ID: MW-U2-20240423

Lab Sample ID: 400-255094-2

Date Collected: 04/23/24 12:37

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:50
Total/NA	Prep	7470A			836618	DW	EET SAV	05/06/24 16:53
Total/NA	Analysis	7470A		1	836859	DW	EET SAV	05/07/24 14:24
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:31
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:13
Total/NA	Analysis	Field Sampling		1	671263	C1H	EET PEN	04/23/24 11:37

Client Sample ID: EB-20240424

Lab Sample ID: 400-255094-3

Date Collected: 04/24/24 13:20

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:54
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 09:59
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:32
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:14

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Client Sample ID: FB-20240424
Date Collected: 04/24/24 12:50
Date Received: 04/26/24 09:03

Lab Sample ID: 400-255094-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:58
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:01
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:33
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:14

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Metals

Prep Batch: 835692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total Recoverable	Water	3005A	
400-255094-2	MW-U2-20240423	Total Recoverable	Water	3005A	
400-255094-3	EB-20240424	Total Recoverable	Water	3005A	
400-255094-4	FB-20240424	Total Recoverable	Water	3005A	
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-255090-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-255090-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 835904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total Recoverable	Water	6020B	835692
400-255094-2	MW-U2-20240423	Total Recoverable	Water	6020B	835692
400-255094-3	EB-20240424	Total Recoverable	Water	6020B	835692
400-255094-4	FB-20240424	Total Recoverable	Water	6020B	835692
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	6020B	835692
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	6020B	835692
400-255090-C-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	835692
400-255090-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	835692

Prep Batch: 836157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-3	EB-20240424	Total/NA	Water	7470A	
400-255094-4	FB-20240424	Total/NA	Water	7470A	
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255090-C-7-C MS	Matrix Spike	Total/NA	Water	7470A	
400-255090-C-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 836331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-3	EB-20240424	Total/NA	Water	7470A	836157
400-255094-4	FB-20240424	Total/NA	Water	7470A	836157
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	836157
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	836157
400-255090-C-7-C MS	Matrix Spike	Total/NA	Water	7470A	836157
400-255090-C-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	836157

Prep Batch: 836618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	7470A	
400-255094-2	MW-U2-20240423	Total/NA	Water	7470A	
MB 680-836618/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836618/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255088-C-4-C MS	Matrix Spike	Total/NA	Water	7470A	
400-255088-C-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 836859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	7470A	836618
400-255094-2	MW-U2-20240423	Total/NA	Water	7470A	836618

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Metals (Continued)

Analysis Batch: 836859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-836618/1-A	Method Blank	Total/NA	Water	7470A	836618
LCS 680-836618/2-A	Lab Control Sample	Total/NA	Water	7470A	836618
400-255088-C-4-C MS	Matrix Spike	Total/NA	Water	7470A	836618
400-255088-C-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	836618

General Chemistry

Analysis Batch: 669873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 2540C	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 2540C	
MB 400-669873/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-669873/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254872-D-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 669910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 4500 F C	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 4500 F C	
400-255094-3	EB-20240424	Total/NA	Water	SM 4500 F C	
400-255094-4	FB-20240424	Total/NA	Water	SM 4500 F C	
MB 400-669910/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-669910/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-669910/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-255088-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-255088-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-255090-B-5 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 670073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-3	EB-20240424	Total/NA	Water	SM 2540C	
400-255094-4	FB-20240424	Total/NA	Water	SM 2540C	
MB 400-670073/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-670073/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254881-C-8 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 670327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 4500 CI- E	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 4500 CI- E	
400-255094-3	EB-20240424	Total/NA	Water	SM 4500 CI- E	
400-255094-4	FB-20240424	Total/NA	Water	SM 4500 CI- E	
MB 400-670327/44	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-670327/45	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-670327/46	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-255090-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
400-255090-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	
400-255094-4 MS	FB-20240424	Total/NA	Water	SM 4500 CI- E	
400-255094-4 MSD	FB-20240424	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

General Chemistry

Analysis Batch: 671139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255094-3	EB-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255094-4	FB-20240424	Total/NA	Water	SM 4500 SO4 E	
MB 400-671139/27	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-671139/28	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-671139/26	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-255094-1 MS	MW-U1-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255094-1 MSD	MW-U1-20240423	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 671263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	Field Sampling	
400-255094-2	MW-U2-20240423	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-835692/1-A

Matrix: Water

Analysis Batch: 835904

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 835692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000550	J	0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 20:53	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 20:53	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 20:53	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 20:53	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 20:53	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 20:53	1

Lab Sample ID: LCS 680-835692/2-A

Matrix: Water

Analysis Batch: 835904

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 835692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0548		mg/L		110	80 - 120
Arsenic	0.100	0.108		mg/L		108	80 - 120
Barium	0.100	0.109		mg/L		109	80 - 120
Beryllium	0.0500	0.0567		mg/L		113	80 - 120
Boron	0.400	0.463		mg/L		116	80 - 120
Cadmium	0.0500	0.0561		mg/L		112	80 - 120
Calcium	5.00	5.22		mg/L		104	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.0500	0.0544		mg/L		109	80 - 120
Lead	0.500	0.528		mg/L		106	80 - 120
Lithium	0.500	0.547		mg/L		109	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Thallium	0.0500	0.0511		mg/L		102	80 - 120

Lab Sample ID: 400-255090-C-1-B MS

Matrix: Water

Analysis Batch: 835904

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 835692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00042	J B	0.0500	0.0560		mg/L		111	75 - 125
Arsenic	ND		0.100	0.109		mg/L		109	75 - 125
Barium	0.018		0.100	0.130		mg/L		112	75 - 125
Beryllium	ND		0.0500	0.0555		mg/L		111	75 - 125
Boron	0.027	J	0.400	0.455		mg/L		107	75 - 125
Cadmium	ND		0.0500	0.0571		mg/L		114	75 - 125
Calcium	52		5.00	53.8	4	mg/L		44	75 - 125
Chromium	ND		0.100	0.113		mg/L		112	75 - 125
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

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

Lab Sample ID: 400-255090-C-1-B MS
Matrix: Water
Analysis Batch: 835904

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 835692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.513		mg/L		103	75 - 125
Lithium	ND		0.500	0.525		mg/L		105	75 - 125
Molybdenum	ND		0.100	0.108		mg/L		108	75 - 125
Selenium	ND		0.100	0.111		mg/L		111	75 - 125
Thallium	ND		0.0500	0.0520		mg/L		104	75 - 125

Lab Sample ID: 400-255090-C-1-C MSD
Matrix: Water
Analysis Batch: 835904

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 835692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00042	J B	0.0500	0.0512		mg/L		102	75 - 125	9	20
Arsenic	ND		0.100	0.101		mg/L		101	75 - 125	8	20
Barium	0.018		0.100	0.119		mg/L		101	75 - 125	9	20
Beryllium	ND		0.0500	0.0532		mg/L		106	75 - 125	4	20
Boron	0.027	J	0.400	0.438		mg/L		103	75 - 125	4	20
Cadmium	ND		0.0500	0.0514		mg/L		103	75 - 125	10	20
Calcium	52		5.00	48.7	4	mg/L		-59	75 - 125	10	20
Chromium	ND		0.100	0.103		mg/L		103	75 - 125	9	20
Cobalt	ND		0.0500	0.0511		mg/L		102	75 - 125	7	20
Lead	ND		0.500	0.496		mg/L		99	75 - 125	3	20
Lithium	ND		0.500	0.507		mg/L		101	75 - 125	3	20
Molybdenum	ND		0.100	0.0982		mg/L		98	75 - 125	9	20
Selenium	ND		0.100	0.102		mg/L		102	75 - 125	8	20
Thallium	ND		0.0500	0.0481		mg/L		96	75 - 125	8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-836157/1-A
Matrix: Water
Analysis Batch: 836331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 836157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/03/24 20:07	1

Lab Sample ID: LCS 680-836157/2-A
Matrix: Water
Analysis Batch: 836331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 836157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

Lab Sample ID: 400-255090-C-7-C MS
Matrix: Water
Analysis Batch: 836331

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 836157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00104		mg/L		104	80 - 120

Eurofins Pensacola

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 400-255090-C-7-D MSD

Matrix: Water

Analysis Batch: 836331

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 836157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00103		mg/L		103	80 - 120	1	20

Lab Sample ID: MB 680-836618/1-A

Matrix: Water

Analysis Batch: 836859

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 836618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:11	1

Lab Sample ID: LCS 680-836618/2-A

Matrix: Water

Analysis Batch: 836859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 836618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

Lab Sample ID: 400-255088-C-4-C MS

Matrix: Water

Analysis Batch: 836859

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 836618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00101		mg/L		101	80 - 120

Lab Sample ID: 400-255088-C-4-D MSD

Matrix: Water

Analysis Batch: 836859

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 836618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00102		mg/L		102	80 - 120	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-669873/1

Matrix: Water

Analysis Batch: 669873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			04/30/24 10:15	1

Lab Sample ID: LCS 400-669873/2

Matrix: Water

Analysis Batch: 669873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	286		mg/L		98	78 - 122

Eurofins Pensacola

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 400-254872-D-5 DU

Matrix: Water

Analysis Batch: 669873

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	440		434		mg/L		2	5

Lab Sample ID: MB 400-670073/1

Matrix: Water

Analysis Batch: 670073

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			05/01/24 12:14	1

Lab Sample ID: LCS 400-670073/2

Matrix: Water

Analysis Batch: 670073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	268		mg/L		91	78 - 122

Lab Sample ID: 400-254881-C-8 DU

Matrix: Water

Analysis Batch: 670073

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		194		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-670327/44

Matrix: Water

Analysis Batch: 670327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			05/02/24 17:24	1

Lab Sample ID: LCS 400-670327/45

Matrix: Water

Analysis Batch: 670327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.8		mg/L		96	90 - 110

Lab Sample ID: MRL 400-670327/46

Matrix: Water

Analysis Batch: 670327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.87		mg/L		143	50 - 150

Eurofins Pensacola

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-255090-B-1 MS

Matrix: Water

Analysis Batch: 670327

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		10.0	10.5		mg/L		105	73 - 120		

Lab Sample ID: 400-255090-B-1 MSD

Matrix: Water

Analysis Batch: 670327

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		10.0	10.7		mg/L		107	73 - 120	3	8

Lab Sample ID: 400-255094-4 MS

Matrix: Water

Analysis Batch: 670327

Client Sample ID: FB-20240424

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		10.0	8.63		mg/L		86	73 - 120		

Lab Sample ID: 400-255094-4 MSD

Matrix: Water

Analysis Batch: 670327

Client Sample ID: FB-20240424

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		10.0	8.72		mg/L		87	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-669910/9

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			04/30/24 11:35	1

Lab Sample ID: LCS 400-669910/11

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	5.00	4.95		mg/L		99	90 - 110		

Lab Sample ID: MRL 400-669910/10

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.100	0.0917	J	mg/L		92	50 - 150		

Eurofins Pensacola

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-255088-B-1 MS

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.047	J	0.100	0.137		mg/L		90	75 - 125

Lab Sample ID: 400-255088-B-1 MSD

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.047	J	0.100	0.131		mg/L		85	75 - 125	4	4

Lab Sample ID: 400-255090-B-5 DU

Matrix: Water

Analysis Batch: 669910

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.050	J	0.0504	J	mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-671139/27

Matrix: Water

Analysis Batch: 671139

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			05/10/24 11:11	1

Lab Sample ID: LCS 400-671139/28

Matrix: Water

Analysis Batch: 671139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	13.9		mg/L		93	90 - 110

Lab Sample ID: MRL 400-671139/26

Matrix: Water

Analysis Batch: 671139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.59	J	mg/L		92	50 - 150

Lab Sample ID: 400-255094-1 MS

Matrix: Water

Analysis Batch: 671139

Client Sample ID: MW-U1-20240423

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.3	J	10.0	11.5		mg/L		92	77 - 128

Eurofins Pensacola

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-255094-1 MSD					Client Sample ID: MW-U1-20240423							
Matrix: Water					Prep Type: Total/NA							
Analysis Batch: 671139												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfate	2.3	J	10.0	11.6		mg/L		92	77 - 128	0	5	

Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record



Environment Testing

Client Information		COC No: 400-129991-29334.1	
Company: Geosyntec Consultants Inc		Page: 1 of 4	
Address: 1255 Roberts Blvd, NW Suite 200		Job #:	
City: Kennesaw		State of Origin: GA	
State, Zip: GA, 30144		COC No: 400-129991-29334.1	
Phone: 770-371-6027		Page: 1 of 4	
Email: dyifru@geosyntec.com		Job #:	
Project Name: CCR App.III/IV GW Monitoring Crisp Co		Preservation Codes: D - HNO3 N - None	
Site: Crisp County Power		Other:	
PO #: 40007960		Special Instructions/Note:	
WO #: 40007960		pH = 7.93 pH = 7.37	
SSOW#:		pH	
Due Date Requested:		pH	
TAT Requested (days):		pH	
Compliance Project: ☒ Yes ☐ No		pH	
Purchase Order not required		pH	
PO #:		pH	
WO #:		pH	
Project #:		pH	
SSOW#:		pH	
Sample Identification		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	
FB-20240424		pH	
Sample Date		pH	
Sample Time		pH	
Sample Type (C=Comp, G=grab)		pH	
Matrix (Water, Solid, On-water, On-solid, Tissue, Air)		pH	
MW-U1-20240423		pH	
MW-U2-20240423		pH	
EWB-20240424		pH	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255094-1

Login Number: 255094

List Source: Eurofins Pensacola

List Number: 1

Creator: Pardonner, Brett

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	5.4°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24

Eurofins Pensacola

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
Geosyntec Consultants Inc
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Generated 6/4/2024 5:42:47 PM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-255094-2

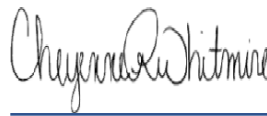
Eurofins Pensacola

Job Notes

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

Authorization



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Authorized for release by
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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255094-1	MW-U1-20240423	Water	04/23/24 12:27	04/26/24 09:03
400-255094-2	MW-U2-20240423	Water	04/23/24 12:37	04/26/24 09:03
400-255094-3	EB-20240424	Water	04/24/24 13:20	04/26/24 09:03
400-255094-4	FB-20240424	Water	04/24/24 12:50	04/26/24 09:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Client Sample ID: MW-U1-20240423

Lab Sample ID: 400-255094-1

Date Collected: 04/23/24 12:27

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00597	U	0.0504	0.0504	1.00	0.105	pCi/L	05/02/24 08:25	06/03/24 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:25	06/03/24 12:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.156	U	0.236	0.237	1.00	0.501	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	76.3		30 - 110					05/02/24 08:31	05/29/24 11:54	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.150	U	0.241	0.242	5.00	0.501	pCi/L		06/04/24 07:23	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Client Sample ID: MW-U2-20240423

Lab Sample ID: 400-255094-2

Date Collected: 04/23/24 12:37

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00326	U	0.0641	0.0641	1.00	0.131	pCi/L	05/02/24 08:25	06/03/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					05/02/24 08:25	06/03/24 12:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.153	U	0.276	0.277	1.00	0.478	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	77.4		30 - 110					05/02/24 08:31	05/29/24 11:54	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.150	U	0.283	0.284	5.00	0.478	pCi/L		06/04/24 07:23	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Client Sample ID: EB-20240424

Lab Sample ID: 400-255094-3

Date Collected: 04/24/24 13:20

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0351	U	0.0756	0.0757	1.00	0.136	pCi/L	05/02/24 08:25	06/03/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					05/02/24 08:25	06/03/24 12:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.235	U	0.293	0.294	1.00	0.486	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	79.6		30 - 110					05/02/24 08:31	05/29/24 11:54	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.270	U	0.303	0.304	5.00	0.486	pCi/L		06/04/24 07:23	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Client Sample ID: FB-20240424

Lab Sample ID: 400-255094-4

Date Collected: 04/24/24 12:50

Matrix: Water

Date Received: 04/26/24 09:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00173	U	0.0628	0.0628	1.00	0.130	pCi/L	05/02/24 08:25	06/03/24 13:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					05/02/24 08:25	06/03/24 13:45	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0397	U	0.287	0.287	1.00	0.552	pCi/L	05/02/24 08:31	05/29/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					05/02/24 08:31	05/29/24 11:55	1
Y Carrier	77.0		30 - 110					05/02/24 08:31	05/29/24 11:55	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0415	U	0.294	0.294	5.00	0.552	pCi/L		06/04/24 07:23	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Client Sample ID: MW-U1-20240423

Lab Sample ID: 400-255094-1

Date Collected: 04/23/24 12:27

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664450	SWS	EET SL	06/03/24 12:21
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

Client Sample ID: MW-U2-20240423

Lab Sample ID: 400-255094-2

Date Collected: 04/23/24 12:37

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664451	SCB	EET SL	06/03/24 12:11
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

Client Sample ID: EB-20240424

Lab Sample ID: 400-255094-3

Date Collected: 04/24/24 13:20

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664451	SCB	EET SL	06/03/24 12:11
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

Client Sample ID: FB-20240424

Lab Sample ID: 400-255094-4

Date Collected: 04/24/24 12:50

Matrix: Water

Date Received: 04/26/24 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664292	SCB	EET SL	06/03/24 13:45
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:55
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Pensacola

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Rad

Prep Batch: 659657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	PrecSep-21	
400-255094-2	MW-U2-20240423	Total/NA	Water	PrecSep-21	
400-255094-3	EB-20240424	Total/NA	Water	PrecSep-21	
400-255094-4	FB-20240424	Total/NA	Water	PrecSep-21	
MB 160-659657/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-659657/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-203565-K-9-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-203565-L-9-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 659660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	PrecSep_0	
400-255094-2	MW-U2-20240423	Total/NA	Water	PrecSep_0	
400-255094-3	EB-20240424	Total/NA	Water	PrecSep_0	
400-255094-4	FB-20240424	Total/NA	Water	PrecSep_0	
MB 160-659660/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-659660/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-203565-K-9-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-203565-L-9-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-659657/1-A

Matrix: Water

Analysis Batch: 664291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 659657

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.005333	U	0.0721	0.0721	1.00	0.143	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					05/02/24 08:25	06/02/24 15:27	1

Lab Sample ID: LCS 160-659657/2-A

Matrix: Water

Analysis Batch: 664291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 659657

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.948		1.08	1.00	0.151	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	99.5		30 - 110							

Lab Sample ID: 240-203565-K-9-A MSD

Matrix: Water

Analysis Batch: 664450

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 659657

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.0717	U	11.3	8.757		0.961	1.00	0.120	pCi/L	77	60 - 140	0.40	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	98.2		30 - 110										

Lab Sample ID: 240-203565-L-9-A MS

Matrix: Water

Analysis Batch: 664450

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 659657

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.0717	U	11.3	9.557		1.04	1.00	0.126	pCi/L	84	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	98.7		30 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-659660/1-A

Matrix: Water

Analysis Batch: 663739

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 659660

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2869	U	0.352	0.353	1.00	0.582	pCi/L	05/02/24 08:31	05/29/24 11:54	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Method: 9320 - Radium-228 (GFPC) (Continued)

MB MB		Limits			Dil Fac
Carrier	%Yield Qualifier		Prepared	Analyzed	
Ba Carrier	97.7	30 - 110	05/02/24 08:31	05/29/24 11:54	1
Y Carrier	72.9	30 - 110	05/02/24 08:31	05/29/24 11:54	1

Lab Sample ID: LCS 160-659660/2-A
Matrix: Water
Analysis Batch: 663739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 659660

LCS LCS		Limits			Dil Fac
Carrier	%Yield Qualifier		Prepared	Analyzed	
Ba Carrier	99.5	30 - 110			
Y Carrier	77.4	30 - 110			

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.90	10.51		1.39	1.00	0.543	pCi/L	118	75 - 125

Lab Sample ID: 240-203565-K-9-B MSD
Matrix: Water
Analysis Batch: 663733

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 659660

MSD MSD		Limits			Dil Fac
Carrier	%Yield Qualifier		Prepared	Analyzed	
Ba Carrier	98.2	30 - 110			
Y Carrier	73.3	30 - 110			

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.159	U	8.87	9.094		1.37	1.00	0.752	pCi/L	101	60 - 140	0.01	1

Lab Sample ID: 240-203565-L-9-B MS
Matrix: Water
Analysis Batch: 663733

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 659660

MS MS		Limits			Dil Fac
Carrier	%Yield Qualifier		Prepared	Analyzed	
Ba Carrier	98.7	30 - 110			
Y Carrier	80.0	30 - 110			

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.159	U	8.89	9.078		1.32	1.00	0.650	pCi/L	100	60 - 140

Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255094-2

Login Number: 255094

List Source: Eurofins Pensacola

List Number: 1

Creator: Pardonner, Brett

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	5.4°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Geosyntec Consultants Inc
Project/Site: Crisp County Power

Job ID: 400-255094-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola

October 2024

ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
Geosyntec Consultants Inc
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Crisp County Power Commission

JOB NUMBER

400-264607-1

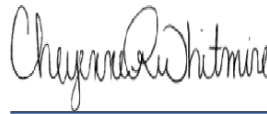
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Job Notes

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

Authorization



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Case Narrative

Client: Geosyntec Consultants Inc
Project: Crisp County Power Commission

Job ID: 400-264607-1

Job ID: 400-264607-1

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Job Narrative 400-264607-1

Receipt

The samples were received on 10/19/2024 8:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

Metals

Method 6020B: The interference check standard solution (ICSA) associated with the following samples showed results for barium at a level greater than the reporting limit (RL). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (MB 680-860946/1-A)

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

Revision

The report being provided is a revision of the original report sent on 10/25/2024. The report (revision 1) is being revised due to: Client requested Boron, Calcium, TDS, Chloride and Sulfate be added to the report.

General Chemistry

Method SM 2540C: Total Dissolved Solids (TDS) was requested outside the method holding time for the following samples: MW-U1-20241016 (400-264607-1), MW-U2-20241016 (400-264607-2), EB-20241016 (400-264607-3) and FB-20241016 (400-264607-4).

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

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Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: MW-U1-20241016

Lab Sample ID: 400-264607-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.0022	J ^6+	0.0025	0.00089	mg/L	1			6020B	Total Recoverable
Chromium	0.0022	J	0.0025	0.0012	mg/L	1			6020B	Total Recoverable
Calcium	38		0.25	0.14	mg/L	1			6020B	Total Recoverable
Total Dissolved Solids	110	H	5.0	5.0	mg/L	1			SM 2540C	Total/NA
Fluoride	0.064	J	0.10	0.022	mg/L	1			SM 4500 F C	Total/NA
Sulfate	2.3	J	5.0	1.4	mg/L	1			SM 4500 SO4 E	Total/NA
Field pH	7.95				SU	1			Field Sampling	Total/NA

Client Sample ID: MW-U2-20241016

Lab Sample ID: 400-264607-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.015	^6+	0.0025	0.00089	mg/L	1			6020B	Total Recoverable
Chromium	0.0042		0.0025	0.0012	mg/L	1			6020B	Total Recoverable
Selenium	0.0013		0.0013	0.00099	mg/L	1			6020B	Total Recoverable
Calcium	14		0.25	0.14	mg/L	1			6020B	Total Recoverable
Boron	0.023	J	0.050	0.022	mg/L	1			6020B	Total Recoverable
Total Dissolved Solids	80	H	5.0	5.0	mg/L	1			SM 2540C	Total/NA
Fluoride	0.040	J	0.10	0.022	mg/L	1			SM 4500 F C	Total/NA
Sulfate	20		5.0	1.4	mg/L	1			SM 4500 SO4 E	Total/NA
Field pH	7.22				SU	1			Field Sampling	Total/NA

Client Sample ID: EB-20241016

Lab Sample ID: 400-264607-3

No Detections.

Client Sample ID: FB-20241016

Lab Sample ID: 400-264607-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264607-1	MW-U1-20241016	Water	10/16/24 12:17	10/19/24 08:03
400-264607-2	MW-U2-20241016	Water	10/16/24 12:35	10/19/24 08:03
400-264607-3	EB-20241016	Water	10/16/24 16:30	10/19/24 08:03
400-264607-4	FB-20241016	Water	10/16/24 16:20	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: MW-U1-20241016

Lab Sample ID: 400-264607-1

Date Collected: 10/16/24 12:17

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:15	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:15	1
Barium	0.0022	J ^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:15	1
Chromium	0.0022	J	0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:15	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:15	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:15	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:15	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:15	1
Calcium	38		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:15	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	110	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:03	1
Fluoride (SM 4500 F C)	0.064	J	0.10	0.022	mg/L			10/21/24 11:51	1
Sulfate (SM 4500 SO4 E)	2.3	J	5.0	1.4	mg/L			11/10/24 17:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.95				SU			10/16/24 11:17	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: MW-U2-20241016

Lab Sample ID: 400-264607-2

Date Collected: 10/16/24 12:35

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:18	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:18	1
Barium	0.015	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:18	1
Chromium	0.0042		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:18	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:18	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:18	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:18	1
Selenium	0.0013		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:18	1
Calcium	14		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:18	1
Boron	0.023	J	0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	80	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:05	1
Fluoride (SM 4500 F C)	0.040	J	0.10	0.022	mg/L			10/21/24 11:59	1
Sulfate (SM 4500 SO4 E)	20		5.0	1.4	mg/L			11/10/24 17:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.22				SU			10/16/24 11:35	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: EB-20241016

Lab Sample ID: 400-264607-3

Date Collected: 10/16/24 16:30

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:46	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:46	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:46	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:46	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:46	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:46	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:46	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:46	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:46	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:05	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			10/21/24 12:02	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/10/24 17:21	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: FB-20241016

Lab Sample ID: 400-264607-4

Date Collected: 10/16/24 16:20

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:21	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:21	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:21	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:21	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:21	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:21	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:21	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:21	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:21	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:06	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			10/21/24 12:05	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/10/24 17:22	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Qualifiers

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: MW-U1-20241016

Lab Sample ID: 400-264607-1

Date Collected: 10/16/24 12:17

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:15
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 Cl- E		1	690743	CJK	EET PEN	11/10/24 16:03
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 11:51
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:19
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 11:17

Client Sample ID: MW-U2-20241016

Lab Sample ID: 400-264607-2

Date Collected: 10/16/24 12:35

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:18
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 Cl- E		1	690743	CJK	EET PEN	11/10/24 16:05
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 11:59
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:21
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 11:35

Client Sample ID: EB-20241016

Lab Sample ID: 400-264607-3

Date Collected: 10/16/24 16:30

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:46
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 Cl- E		1	690743	CJK	EET PEN	11/10/24 16:05
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:02
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:21

Client Sample ID: FB-20241016

Lab Sample ID: 400-264607-4

Date Collected: 10/16/24 16:20

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:21
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 Cl- E		1	690743	CJK	EET PEN	11/10/24 16:06
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:05

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Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Client Sample ID: FB-20241016
Date Collected: 10/16/24 16:20
Date Received: 10/19/24 08:03

Lab Sample ID: 400-264607-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:22

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Metals

Prep Batch: 860946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total Recoverable	Water	3005A	
400-264607-2	MW-U2-20241016	Total Recoverable	Water	3005A	
400-264607-3	EB-20241016	Total Recoverable	Water	3005A	
400-264607-4	FB-20241016	Total Recoverable	Water	3005A	
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-264608-C-10-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-264608-C-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 861224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total Recoverable	Water	6020B	860946
400-264607-2	MW-U2-20241016	Total Recoverable	Water	6020B	860946
400-264607-3	EB-20241016	Total Recoverable	Water	6020B	860946
400-264607-4	FB-20241016	Total Recoverable	Water	6020B	860946
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	6020B	860946
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	6020B	860946
400-264608-C-10-B MS	Matrix Spike	Total Recoverable	Water	6020B	860946
400-264608-C-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	860946

General Chemistry

Analysis Batch: 688602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 4500 F C	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 4500 F C	
400-264607-3	EB-20241016	Total/NA	Water	SM 4500 F C	
400-264607-4	FB-20241016	Total/NA	Water	SM 4500 F C	
MB 400-688602/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-688602/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-688602/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-264607-1 MS	MW-U1-20241016	Total/NA	Water	SM 4500 F C	
400-264607-1 MSD	MW-U1-20241016	Total/NA	Water	SM 4500 F C	
400-264608-B-7 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 690743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 4500 Cl- E	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 4500 Cl- E	
400-264607-3	EB-20241016	Total/NA	Water	SM 4500 Cl- E	
400-264607-4	FB-20241016	Total/NA	Water	SM 4500 Cl- E	
MB 400-690743/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-690743/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-690743/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-264607-1 MS	MW-U1-20241016	Total/NA	Water	SM 4500 Cl- E	
400-264607-1 MSD	MW-U1-20241016	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 690748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

General Chemistry (Continued)

Analysis Batch: 690748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-3	EB-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264607-4	FB-20241016	Total/NA	Water	SM 4500 SO4 E	
MB 400-690748/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-690748/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-690748/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-264607-1 MS	MW-U1-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264607-1 MSD	MW-U1-20241016	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 691026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 2540C	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 2540C	
400-264607-3	EB-20241016	Total/NA	Water	SM 2540C	
400-264607-4	FB-20241016	Total/NA	Water	SM 2540C	
MB 400-691026/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-691026/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-264608-B-4 DU	Duplicate	Total/NA	Water	SM 2540C	
400-264608-B-6 DU	Duplicate	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 688810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	Field Sampling	
400-264607-2	MW-U2-20241016	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-860946/1-A
Matrix: Water
Analysis Batch: 861224

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:03	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:03	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:03	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:03	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:03	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:03	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:03	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:03	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:03	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:03	1

Lab Sample ID: LCS 680-860946/2-A
Matrix: Water
Analysis Batch: 861224

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0501		mg/L		100	80 - 120
Arsenic	0.100	0.0982		mg/L		98	80 - 120
Barium	0.100	0.101	^6+	mg/L		101	80 - 120
Chromium	0.100	0.101		mg/L		101	80 - 120
Cobalt	0.0500	0.0536		mg/L		107	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Molybdenum	0.100	0.105		mg/L		105	80 - 120
Selenium	0.100	0.0965		mg/L		97	80 - 120
Calcium	5.00	4.95		mg/L		99	80 - 120

Lab Sample ID: 400-264608-C-10-B MS
Matrix: Water
Analysis Batch: 861224

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0511		mg/L		102	75 - 125
Arsenic	ND		0.100	0.104		mg/L		104	75 - 125
Barium	0.038	^6+	0.100	0.143	^6+	mg/L		105	75 - 125
Chromium	ND		0.100	0.108		mg/L		108	75 - 125
Cobalt	ND		0.0500	0.0528		mg/L		106	75 - 125
Lead	ND		0.500	0.524		mg/L		105	75 - 125
Molybdenum	ND		0.100	0.103		mg/L		103	75 - 125
Selenium	ND		0.100	0.105		mg/L		105	75 - 125
Calcium	57		5.00	58.5	4	mg/L		35	75 - 125
Boron	ND	F1	0.400	0.543	F1	mg/L		136	75 - 125

Lab Sample ID: 400-264608-C-10-C MSD
Matrix: Water
Analysis Batch: 861224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0535		mg/L		107	75 - 125	5	20
Arsenic	ND		0.100	0.110		mg/L		110	75 - 125	5	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

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

Lab Sample ID: 400-264608-C-10-C MSD

Matrix: Water

Analysis Batch: 861224

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 860946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.038	^6+	0.100	0.152	^6+	mg/L		114	75 - 125	6	20
Chromium	ND		0.100	0.112		mg/L		112	75 - 125	3	20
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125	4	20
Lead	ND		0.500	0.553		mg/L		111	75 - 125	5	20
Molybdenum	ND		0.100	0.107		mg/L		107	75 - 125	4	20
Selenium	ND		0.100	0.108		mg/L		108	75 - 125	3	20
Calcium	57		5.00	62.5	4	mg/L		115	75 - 125	7	20
Boron	ND	F1	0.400	0.576	F1	mg/L		144	75 - 125	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-691026/1

Matrix: Water

Analysis Batch: 691026

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			11/13/24 07:29	1

Lab Sample ID: LCS 400-691026/2

Matrix: Water

Analysis Batch: 691026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	282		mg/L		96	78 - 122

Lab Sample ID: 400-264608-B-4 DU

Matrix: Water

Analysis Batch: 691026

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		350		mg/L		4	5

Lab Sample ID: 400-264608-B-6 DU

Matrix: Water

Analysis Batch: 691026

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	130		134		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-690743/13

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			11/10/24 16:01	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-690743/14

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	46.2		mg/L		92	90 - 110

Lab Sample ID: MRL 400-690743/43

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.05		mg/L		103	50 - 150

Lab Sample ID: 400-264607-1 MS

Matrix: Water

Analysis Batch: 690743

Client Sample ID: MW-U1-20241016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		20.0	18.8		mg/L		94	73 - 120

Lab Sample ID: 400-264607-1 MSD

Matrix: Water

Analysis Batch: 690743

Client Sample ID: MW-U1-20241016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		20.0	18.8		mg/L		94	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-688602/9

Matrix: Water

Analysis Batch: 688602

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			10/21/24 11:43	1

Lab Sample ID: LCS 400-688602/11

Matrix: Water

Analysis Batch: 688602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.98	4.75		mg/L		95	90 - 110

Lab Sample ID: MRL 400-688602/10

Matrix: Water

Analysis Batch: 688602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.102		mg/L		101	50 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-264607-1 MS

Matrix: Water

Analysis Batch: 688602

Client Sample ID: MW-U1-20241016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.064	J	0.100	0.161		mg/L		97	75 - 125		

Lab Sample ID: 400-264607-1 MSD

Matrix: Water

Analysis Batch: 688602

Client Sample ID: MW-U1-20241016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.064	J	0.100	0.167		mg/L		103	75 - 125	4	4

Lab Sample ID: 400-264608-B-7 DU

Matrix: Water

Analysis Batch: 688602

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.090	J		0.0940	J	mg/L				4	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-690748/12

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			11/10/24 17:18	1

Lab Sample ID: LCS 400-690748/13

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			15.0	16.2		mg/L		108	90 - 110		

Lab Sample ID: MRL 400-690748/14

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			5.00	4.87	J	mg/L		97	50 - 150		

Lab Sample ID: 400-264607-1 MS

Matrix: Water

Analysis Batch: 690748

Client Sample ID: MW-U1-20241016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	2.3	J	10.0	12.9		mg/L		106	77 - 128		

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-264607-1 MSD					Client Sample ID: MW-U1-20241016							
Matrix: Water					Prep Type: Total/NA							
Analysis Batch: 690748												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfate	2.3	J	10.0	13.4		mg/L		112	77 - 128	4	5	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264607-1

Login Number: 264607

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

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.	N/A	
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	0.7°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-25
ANAB	Dept. of Defense ELAP	L2463	09-22-26
Arkansas (DW)	State	GA00006	06-30-25
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25
Georgia (DW)	State	803	06-30-25
Guam	State	24-05R	04-17-25
Hawaii	State	<cert No.>	06-30-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	108138	06-30-24 *
Louisiana (All)	NELAP	30690	06-30-25
Louisiana (DW)	State	LA009	12-31-24
Maryland	State	250	12-31-24
Michigan	State	9925	03-05-25
Mississippi	State	<cert No.>	06-30-25
Nebraska	State	NE-OS-7-04	06-30-25
New Mexico	State	GA00006	06-30-25
North Carolina (DW)	State	13701	07-31-25
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24 *
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25
Wyoming	State	8TMS-L	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola

ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
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Kennesaw, Georgia 30144

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JOB DESCRIPTION

Crisp County Power Commission

JOB NUMBER

400-264607-2

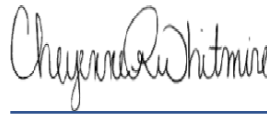
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Job Notes

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Authorization



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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264607-1	MW-U1-20241016	Water	10/16/24 12:17	10/19/24 08:03
400-264607-2	MW-U2-20241016	Water	10/16/24 12:35	10/19/24 08:03
400-264607-3	EB-20241016	Water	10/16/24 16:30	10/19/24 08:03
400-264607-4	FB-20241016	Water	10/16/24 16:20	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Client Sample ID: MW-U1-20241016

Lab Sample ID: 400-264607-1

Date Collected: 10/16/24 12:17

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0793	U	0.0573	0.0578	1.00	0.179	pCi/L	10/29/24 08:31	11/20/24 21:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					10/29/24 08:31	11/20/24 21:27	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0824	U	0.338	0.338	1.00	0.648	pCi/L	10/29/24 08:35	11/18/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					10/29/24 08:35	11/18/24 12:17	1
Y Carrier	82.6		30 - 110					10/29/24 08:35	11/18/24 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.162	U	0.343	0.343	5.00	0.648	pCi/L		11/22/24 15:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Client Sample ID: MW-U2-20241016

Lab Sample ID: 400-264607-2

Date Collected: 10/16/24 12:35

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0698	U	0.0534	0.0538	1.00	0.176	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0165	U	0.380	0.380	1.00	0.720	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	78.9		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0533	U	0.384	0.384	5.00	0.720	pCi/L		11/22/24 15:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Client Sample ID: EB-20241016

Lab Sample ID: 400-264607-3

Date Collected: 10/16/24 16:30

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0454	U	0.0666	0.0667	1.00	0.173	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.367	U	0.506	0.507	1.00	0.847	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	74.8		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.322	U	0.510	0.511	5.00	0.847	pCi/L		11/22/24 15:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Client Sample ID: FB-20241016

Lab Sample ID: 400-264607-4

Date Collected: 10/16/24 16:20

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00886	U	0.0823	0.0823	1.00	0.185	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.160	U	0.454	0.454	1.00	0.887	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	80.0		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.169	U	0.461	0.461	5.00	0.887	pCi/L		11/22/24 15:43	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Client Sample ID: MW-U1-20241016

Lab Sample ID: 400-264607-1

Date Collected: 10/16/24 12:17

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:27
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689004	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Client Sample ID: MW-U2-20241016

Lab Sample ID: 400-264607-2

Date Collected: 10/16/24 12:35

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Client Sample ID: EB-20241016

Lab Sample ID: 400-264607-3

Date Collected: 10/16/24 16:30

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Client Sample ID: FB-20241016

Lab Sample ID: 400-264607-4

Date Collected: 10/16/24 16:20

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Rad

Prep Batch: 685741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	PrecSep-21	
400-264607-2	MW-U2-20241016	Total/NA	Water	PrecSep-21	
400-264607-3	EB-20241016	Total/NA	Water	PrecSep-21	
400-264607-4	FB-20241016	Total/NA	Water	PrecSep-21	
MB 160-685741/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685741/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-264607-1 DU	MW-U1-20241016	Total/NA	Water	PrecSep-21	

Prep Batch: 685743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	PrecSep_0	
400-264607-2	MW-U2-20241016	Total/NA	Water	PrecSep_0	
400-264607-3	EB-20241016	Total/NA	Water	PrecSep_0	
400-264607-4	FB-20241016	Total/NA	Water	PrecSep_0	
MB 160-685743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-264607-1 DU	MW-U1-20241016	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-685741/1-A

Matrix: Water

Analysis Batch: 689479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 685741

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06957	U	0.116	0.116	1.00	0.254	pCi/L	10/29/24 08:31	11/20/24 21:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					10/29/24 08:31	11/20/24 21:26	1

Lab Sample ID: LCS 160-685741/2-A

Matrix: Water

Analysis Batch: 689479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 685741

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	9.017		1.06	1.00	0.209	pCi/L	94	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	85.1		30 - 110						

Lab Sample ID: 400-264607-1 DU

Matrix: Water

Analysis Batch: 689479

Client Sample ID: MW-U1-20241016

Prep Type: Total/NA

Prep Batch: 685741

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	-0.0793	U	-0.05808	U	0.0571	1.00	0.169	pCi/L	0.18	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	88.3		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-685743/1-A

Matrix: Water

Analysis Batch: 689004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 685743

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2934	U	0.327	0.328	1.00	0.533	pCi/L	10/29/24 08:35	11/18/24 12:16	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					10/29/24 08:35	11/18/24 12:16	1
Y Carrier	82.6		30 - 110					10/29/24 08:35	11/18/24 12:16	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-685743/2-A
Matrix: Water
Analysis Batch: 689004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685743

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.33	8.318		1.22	1.00	0.584	pCi/L	100	75 - 125
	LCS	LCS								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	85.1		30 - 110							
Y Carrier	83.0		30 - 110							

Lab Sample ID: 400-264607-1 DU
Matrix: Water
Analysis Batch: 689051

Client Sample ID: MW-U1-20241016
Prep Type: Total/NA
Prep Batch: 685743

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.0824	U	0.06549	U	0.404	1.00	0.737	pCi/L	0.20	1
	DU	DU								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.3		30 - 110							
Y Carrier	79.3		30 - 110							

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264607-2

Login Number: 264607

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	N/A	
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	0.7°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Crisp County Power Commission
Ash Pond Wells

JOB NUMBER

400-264608-1

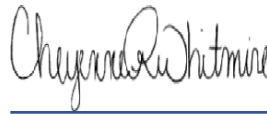
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Job Notes

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Authorization



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Revision 1

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Case Narrative

Client: Geosyntec Consultants Inc
Project: Crisp County Power Commission

Job ID: 400-264608-1

Job ID: 400-264608-1

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Job Narrative 400-264608-1

Receipt

The samples were received on 10/19/2024 8:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Metals

Method 6020B: The interference check standard solution (ICSA) associated with the following samples showed results for barium at a level greater than the reporting limit (RL). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (MB 680-860946/1-A)

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

Revision

The report being provided is a revision of the original report sent on 10/25/2024. The report (revision 1) is being revised due to: Client requested Boron, Calcium, TDS, Chloride and Sulfate be added to the report.

General Chemistry

Method SM 2540C: Total Dissolved Solids (TDS) was requested outside the method holding time for the following samples: MW-D1-2021016 (400-264608-1), MW-D2-20241016 (400-264608-2), MW-D3-20241016 (400-264608-3) and DUP-23-20241016 (400-264608-4).

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

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Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: MW-D1-2021016

Lab Sample ID: 400-264608-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.012	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	50		0.25	0.14	mg/L	1		6020B	Total Recoverable
Boron	0.13		0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	130	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.078	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	16		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.84				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D2-20241016

Lab Sample ID: 400-264608-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	140		0.25	0.14	mg/L	1		6020B	Total Recoverable
Boron	0.14		0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	360	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	6.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.066	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	13		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D3-20241016

Lab Sample ID: 400-264608-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.00086	mg/L	1		6020B	Total Recoverable
Barium	0.047	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0017	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0062	J	0.010	0.00086	mg/L	1		6020B	Total Recoverable
Calcium	79		0.25	0.14	mg/L	1		6020B	Total Recoverable
Boron	0.20		0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	210	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.9	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	22		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.48				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-23-20241016

Lab Sample ID: 400-264608-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	140		0.25	0.14	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: DUP-23-20241016 (Continued)

Lab Sample ID: 400-264608-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.14		0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	370	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.7		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.066	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	14		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264608-1	MW-D1-2021016	Water	10/16/24 14:38	10/19/24 08:03
400-264608-2	MW-D2-20241016	Water	10/16/24 14:20	10/19/24 08:03
400-264608-3	MW-D3-20241016	Water	10/16/24 16:10	10/19/24 08:03
400-264608-4	DUP-23-20241016	Water	10/16/24 00:00	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: MW-D1-2021016

Lab Sample ID: 400-264608-1

Date Collected: 10/16/24 14:38

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:41	1
Barium	0.012	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:41	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:41	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:41	1
Calcium	50		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:41	1
Boron	0.13		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	130	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	3.4		2.0	1.4	mg/L			11/10/24 16:06	1
Fluoride (SM 4500 F C)	0.078	J	0.10	0.022	mg/L			10/21/24 12:08	1
Sulfate (SM 4500 SO4 E)	16		5.0	1.4	mg/L			11/10/24 17:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.84				SU			10/16/24 13:38	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: MW-D2-20241016

Lab Sample ID: 400-264608-2

Date Collected: 10/16/24 14:20

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:36	1
Barium	0.15	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:36	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:36	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:36	1
Calcium	140		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:36	1
Boron	0.14		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	360	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	6.0		2.0	1.4	mg/L			11/10/24 16:07	1
Fluoride (SM 4500 F C)	0.066	J	0.10	0.022	mg/L			10/21/24 12:11	1
Sulfate (SM 4500 SO4 E)	13		5.0	1.4	mg/L			11/10/24 17:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.76				SU			10/16/24 13:20	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: MW-D3-20241016

Lab Sample ID: 400-264608-3

Date Collected: 10/16/24 16:10

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0014		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:54	1
Barium	0.047	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:54	1
Chromium	0.0017	J	0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:54	1
Molybdenum	0.0062	J	0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:54	1
Calcium	79		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:54	1
Boron	0.20		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	210	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	1.9	J	2.0	1.4	mg/L			11/10/24 16:07	1
Fluoride (SM 4500 F C)	0.13		0.10	0.022	mg/L			10/21/24 12:13	1
Sulfate (SM 4500 SO4 E)	22		5.0	1.4	mg/L			11/10/24 17:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.48				SU			10/16/24 15:10	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: DUP-23-20241016

Lab Sample ID: 400-264608-4

Date Collected: 10/16/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:26	1
Barium	0.15	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:26	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:26	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:26	1
Calcium	140		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:26	1
Boron	0.14		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	370	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	5.7		2.0	1.4	mg/L			11/10/24 16:08	1
Fluoride (SM 4500 F C)	0.066	J	0.10	0.022	mg/L			10/21/24 12:16	1
Sulfate (SM 4500 SO4 E)	14		5.0	1.4	mg/L			11/10/24 17:23	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Qualifiers

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: MW-D1-2021016

Lab Sample ID: 400-264608-1

Date Collected: 10/16/24 14:38

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:41
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:06
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:08
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:22
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 13:38

Client Sample ID: MW-D2-20241016

Lab Sample ID: 400-264608-2

Date Collected: 10/16/24 14:20

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:36
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:07
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:11
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:23
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 13:20

Client Sample ID: MW-D3-20241016

Lab Sample ID: 400-264608-3

Date Collected: 10/16/24 16:10

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:54
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:07
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:13
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:23
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 15:10

Client Sample ID: DUP-23-20241016

Lab Sample ID: 400-264608-4

Date Collected: 10/16/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:26
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:08

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Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Client Sample ID: DUP-23-20241016

Lab Sample ID: 400-264608-4

Date Collected: 10/16/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:16
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:23

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Metals

Prep Batch: 860946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total Recoverable	Water	3005A	
400-264608-2	MW-D2-20241016	Total Recoverable	Water	3005A	
400-264608-3	MW-D3-20241016	Total Recoverable	Water	3005A	
400-264608-4	DUP-23-20241016	Total Recoverable	Water	3005A	
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-264608-C-10-B MS	400-264608-C-10-B MS	Total Recoverable	Water	3005A	
400-264608-C-10-C MSD	400-264608-C-10-C MSD	Total Recoverable	Water	3005A	

Analysis Batch: 861224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total Recoverable	Water	6020B	860946
400-264608-2	MW-D2-20241016	Total Recoverable	Water	6020B	860946
400-264608-3	MW-D3-20241016	Total Recoverable	Water	6020B	860946
400-264608-4	DUP-23-20241016	Total Recoverable	Water	6020B	860946
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	6020B	860946
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	6020B	860946
400-264608-C-10-B MS	400-264608-C-10-B MS	Total Recoverable	Water	6020B	860946
400-264608-C-10-C MSD	400-264608-C-10-C MSD	Total Recoverable	Water	6020B	860946

General Chemistry

Analysis Batch: 688602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total/NA	Water	SM 4500 F C	
400-264608-2	MW-D2-20241016	Total/NA	Water	SM 4500 F C	
400-264608-3	MW-D3-20241016	Total/NA	Water	SM 4500 F C	
400-264608-4	DUP-23-20241016	Total/NA	Water	SM 4500 F C	
MB 400-688602/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-688602/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-688602/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-264607-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-264607-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-264608-B-7 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 690743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total/NA	Water	SM 4500 Cl- E	
400-264608-2	MW-D2-20241016	Total/NA	Water	SM 4500 Cl- E	
400-264608-3	MW-D3-20241016	Total/NA	Water	SM 4500 Cl- E	
400-264608-4	DUP-23-20241016	Total/NA	Water	SM 4500 Cl- E	
MB 400-690743/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-690743/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-690743/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-264608-B-7 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-264608-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 690748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total/NA	Water	SM 4500 SO4 E	
400-264608-2	MW-D2-20241016	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

General Chemistry (Continued)

Analysis Batch: 690748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-3	MW-D3-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264608-4	DUP-23-20241016	Total/NA	Water	SM 4500 SO4 E	
MB 400-690748/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-690748/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-690748/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-264608-B-6 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-264608-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 691026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total/NA	Water	SM 2540C	
400-264608-2	MW-D2-20241016	Total/NA	Water	SM 2540C	
400-264608-3	MW-D3-20241016	Total/NA	Water	SM 2540C	
400-264608-4	DUP-23-20241016	Total/NA	Water	SM 2540C	
MB 400-691026/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-691026/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-264608-4 DU	DUP-23-20241016	Total/NA	Water	SM 2540C	
400-264608-B-6 DU	Duplicate	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 688810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-2021016	Total/NA	Water	Field Sampling	
400-264608-2	MW-D2-20241016	Total/NA	Water	Field Sampling	
400-264608-3	MW-D3-20241016	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-860946/1-A
Matrix: Water
Analysis Batch: 861224

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:03	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:03	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:03	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:03	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:03	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:03	1

Lab Sample ID: LCS 680-860946/2-A
Matrix: Water
Analysis Batch: 861224

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0982		mg/L		98	80 - 120
Barium	0.100	0.101	^6+	mg/L		101	80 - 120
Chromium	0.100	0.101		mg/L		101	80 - 120
Molybdenum	0.100	0.105		mg/L		105	80 - 120
Calcium	5.00	4.95		mg/L		99	80 - 120

Lab Sample ID: 400-264608-C-10-B MS
Matrix: Water
Analysis Batch: 861224

Client Sample ID: 400-264608-C-10-B MS
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		0.100	0.104		mg/L		104	75 - 125
Barium	0.038	^6+	0.100	0.143	^6+	mg/L		105	75 - 125
Chromium	ND		0.100	0.108		mg/L		108	75 - 125
Molybdenum	ND		0.100	0.103		mg/L		103	75 - 125
Calcium	57		5.00	58.5	4	mg/L		35	75 - 125
Boron	ND	F1	0.400	0.543	F1	mg/L		136	75 - 125

Lab Sample ID: 400-264608-C-10-C MSD
Matrix: Water
Analysis Batch: 861224

Client Sample ID: 400-264608-C-10-C MSD
Prep Type: Total Recoverable
Prep Batch: 860946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	ND		0.100	0.110		mg/L		110	75 - 125	5	20
Barium	0.038	^6+	0.100	0.152	^6+	mg/L		114	75 - 125	6	20
Chromium	ND		0.100	0.112		mg/L		112	75 - 125	3	20
Molybdenum	ND		0.100	0.107		mg/L		107	75 - 125	4	20
Calcium	57		5.00	62.5	4	mg/L		115	75 - 125	7	20
Boron	ND	F1	0.400	0.576	F1	mg/L		144	75 - 125	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-691026/1
Matrix: Water
Analysis Batch: 691026

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			11/13/24 07:29	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 400-691026/2

Matrix: Water

Analysis Batch: 691026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	282		mg/L		96	78 - 122

Lab Sample ID: 400-264608-4 DU

Matrix: Water

Analysis Batch: 691026

Client Sample ID: DUP-23-20241016

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370	H	350		mg/L		4	5

Lab Sample ID: 400-264608-B-6 DU

Matrix: Water

Analysis Batch: 691026

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	130		134		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-690743/13

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			11/10/24 16:01	1

Lab Sample ID: LCS 400-690743/14

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	46.2		mg/L		92	90 - 110

Lab Sample ID: MRL 400-690743/43

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.05		mg/L		103	50 - 150

Lab Sample ID: 400-264608-B-7 MS

Matrix: Water

Analysis Batch: 690743

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.4		20.0	21.4		mg/L		95	73 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-264608-B-7 MSD
Matrix: Water
Analysis Batch: 690743

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.4		20.0	20.9		mg/L		92	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-688602/9
Matrix: Water
Analysis Batch: 688602

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			10/21/24 11:43	1

Lab Sample ID: LCS 400-688602/11
Matrix: Water
Analysis Batch: 688602

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.98	4.75		mg/L		95	90 - 110

Lab Sample ID: MRL 400-688602/10
Matrix: Water
Analysis Batch: 688602

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.102		mg/L		101	50 - 150

Lab Sample ID: 400-264607-B-1 MS
Matrix: Water
Analysis Batch: 688602

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.064	J	0.100	0.161		mg/L		97	75 - 125

Lab Sample ID: 400-264607-B-1 MSD
Matrix: Water
Analysis Batch: 688602

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.064	J	0.100	0.167		mg/L		103	75 - 125	4	4

Lab Sample ID: 400-264608-B-7 DU
Matrix: Water
Analysis Batch: 688602

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.090	J	0.0940	J	mg/L		4	4

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-690748/12

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			11/10/24 17:18	1

Lab Sample ID: LCS 400-690748/13

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	16.2		mg/L		108	90 - 110

Lab Sample ID: MRL 400-690748/14

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.87	J	mg/L		97	50 - 150

Lab Sample ID: 400-264608-B-6 MS

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.4		10.0	15.9		mg/L		105	77 - 128

Lab Sample ID: 400-264608-B-6 MSD

Matrix: Water

Analysis Batch: 690748

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	5.4		10.0	16.0		mg/L		106	77 - 128	1	5

3355 McLemore Drive
Pensacola, FL 32514

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264608-1

SDG Number: Ash Pond Wells

Login Number: 264608

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	N/A	
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	0.6°C, 1.1°C, 0.9°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-25
ANAB	Dept. of Defense ELAP	L2463	09-22-26
Arkansas (DW)	State	GA00006	06-30-25
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25
Georgia (DW)	State	803	06-30-25
Guam	State	24-05R	04-17-25
Hawaii	State	<cert No.>	06-30-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	108138	06-30-24 *
Louisiana (All)	NELAP	30690	06-30-25
Louisiana (DW)	State	LA009	12-31-24
Maryland	State	250	12-31-24
Michigan	State	9925	03-05-25
Mississippi	State	<cert No.>	06-30-25
Nebraska	State	NE-OS-7-04	06-30-25
New Mexico	State	GA00006	06-30-25
North Carolina (DW)	State	13701	07-31-25
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-1
SDG: Ash Pond Wells

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24 *
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25
Wyoming	State	8TMS-L	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola

ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
Geosyntec Consultants Inc
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Kennesaw, Georgia 30144

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JOB DESCRIPTION

Crisp County Power Commission
Ash Pond Wells

JOB NUMBER

400-264608-2

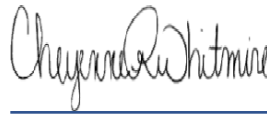
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Job Notes

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

Authorization



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Authorized for release by
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(850)471-6222



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Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264608-1	MW-D1-20241016	Water	10/16/24 14:38	10/19/24 08:03
400-264608-2	MW-D2-20241016	Water	10/16/24 14:20	10/19/24 08:03
400-264608-3	MW-D3-20241016	Water	10/16/24 16:10	10/19/24 08:03
400-264608-4	DUP-23-20241016	Water	10/16/24 00:00	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Client Sample ID: MW-D1-20241016

Lab Sample ID: 400-264608-1

Date Collected: 10/16/24 14:38

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0370	U	0.0772	0.0773	1.00	0.144	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0986	U	0.501	0.501	1.00	0.909	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	67.7		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.136	U	0.507	0.507	5.00	0.909	pCi/L		11/22/24 15:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Client Sample ID: MW-D2-20241016

Lab Sample ID: 400-264608-2

Date Collected: 10/16/24 14:20

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0455	U	0.0906	0.0907	1.00	0.164	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.474	U	0.422	0.424	1.00	0.664	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	78.1		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.519	U	0.432	0.434	5.00	0.664	pCi/L		11/22/24 15:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Client Sample ID: MW-D3-20241016

Lab Sample ID: 400-264608-3

Date Collected: 10/16/24 16:10

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00246	U	0.0817	0.0817	1.00	0.173	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.397	U	0.300	0.302	1.00	0.698	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	75.1		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.400	U	0.311	0.313	5.00	0.698	pCi/L		11/22/24 15:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Client Sample ID: DUP-23-20241016

Lab Sample ID: 400-264608-4

Date Collected: 10/16/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0146	U	0.0790	0.0790	1.00	0.177	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					10/29/24 08:31	11/20/24 21:29	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.663	U	0.485	0.489	1.00	0.732	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	73.3		30 - 110					10/29/24 08:35	11/18/24 14:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.649	U	0.491	0.495	5.00	0.732	pCi/L		11/22/24 15:43	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Client Sample ID: MW-D1-20241016

Lab Sample ID: 400-264608-1

Date Collected: 10/16/24 14:38

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Client Sample ID: MW-D2-20241016

Lab Sample ID: 400-264608-2

Date Collected: 10/16/24 14:20

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Client Sample ID: MW-D3-20241016

Lab Sample ID: 400-264608-3

Date Collected: 10/16/24 16:10

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Client Sample ID: DUP-23-20241016

Lab Sample ID: 400-264608-4

Date Collected: 10/16/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Pensacola

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Rad

Prep Batch: 685741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-20241016	Total/NA	Water	PrecSep-21	
400-264608-2	MW-D2-20241016	Total/NA	Water	PrecSep-21	
400-264608-3	MW-D3-20241016	Total/NA	Water	PrecSep-21	
400-264608-4	DUP-23-20241016	Total/NA	Water	PrecSep-21	
MB 160-685741/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685741/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-264607-A-1-B DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 685743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-1	MW-D1-20241016	Total/NA	Water	PrecSep_0	
400-264608-2	MW-D2-20241016	Total/NA	Water	PrecSep_0	
400-264608-3	MW-D3-20241016	Total/NA	Water	PrecSep_0	
400-264608-4	DUP-23-20241016	Total/NA	Water	PrecSep_0	
MB 160-685743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-264607-A-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-685741/1-A
Matrix: Water
Analysis Batch: 689479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685741

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06957	U	0.116	0.116	1.00	0.254	pCi/L	10/29/24 08:31	11/20/24 21:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					10/29/24 08:31	11/20/24 21:26	1

Lab Sample ID: LCS 160-685741/2-A
Matrix: Water
Analysis Batch: 689479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685741

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.017		1.06	1.00	0.209	pCi/L	94	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	85.1		30 - 110							

Lab Sample ID: 400-264607-A-1-B DU
Matrix: Water
Analysis Batch: 689479

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 685741

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	-0.0793	U	-0.05808	U	0.0571	1.00	0.169	pCi/L	0.18	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	88.3		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-685743/1-A
Matrix: Water
Analysis Batch: 689004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685743

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2934	U	0.327	0.328	1.00	0.533	pCi/L	10/29/24 08:35	11/18/24 12:16	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					10/29/24 08:35	11/18/24 12:16	1
Y Carrier	82.6		30 - 110					10/29/24 08:35	11/18/24 12:16	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-685743/2-A
Matrix: Water
Analysis Batch: 689004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685743

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.33	8.318		1.22	1.00	0.584	pCi/L	100	75 - 125
	LCS	LCS								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	85.1		30 - 110							
Y Carrier	83.0		30 - 110							

Lab Sample ID: 400-264607-A-1-D DU
Matrix: Water
Analysis Batch: 689051

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 685743

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.0824	U	0.06549	U	0.404	1.00	0.737	pCi/L	0.20	1
	DU	DU								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.3		30 - 110							
Y Carrier	79.3		30 - 110							

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264608-2

SDG Number: Ash Pond Wells

Login Number: 264608

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

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.	N/A	
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	0.6°C, 1.1°C, 0.9°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: Geosyntec Consultants Inc
Project/Site: Crisp County Power Commission

Job ID: 400-264608-2
SDG: Ash Pond Wells

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pensacola

APPENDIX C

Statistical Analysis Reports

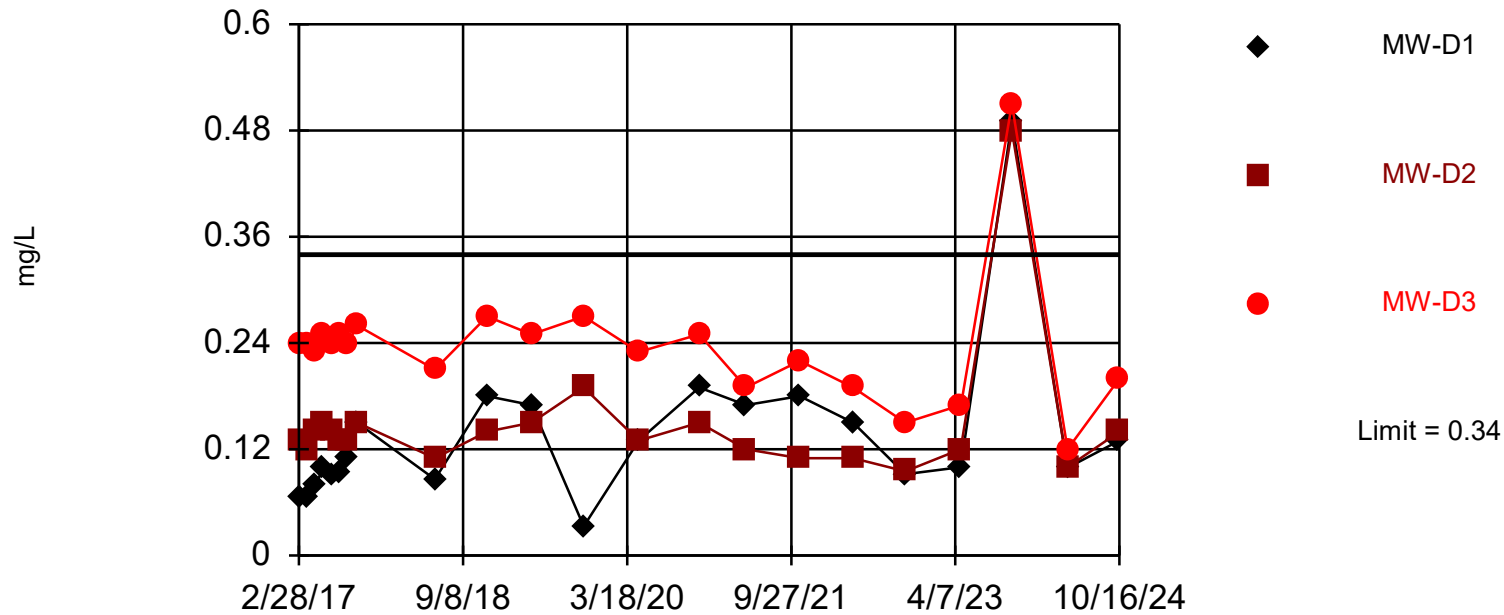
Prediction Limit

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event Printed 12/17/2024, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MW-D1	0.34	n/a	10/16/2024	0.13	No	24	n/a	n/a	70.83	n/a	n/a	0.003103	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D2	0.34	n/a	10/16/2024	0.14	No	24	n/a	n/a	70.83	n/a	n/a	0.003103	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D3	0.34	n/a	10/16/2024	0.2	No	24	n/a	n/a	70.83	n/a	n/a	0.003103	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MW-D1	37.95	n/a	10/16/2024	450	Yes	23	34.91	2.466	0	None	No	0.01741	Param Inter 1 of 2
Calcium (mg/L)	MW-D2	37.95	n/a	10/16/2024	140	Yes	23	34.91	2.466	0	None	No	0.01741	Param Inter 1 of 2
Calcium (mg/L)	MW-D3	37.95	n/a	10/16/2024	79	Yes	23	34.91	2.466	0	None	No	0.01741	Param Inter 1 of 2
Chloride (mg/L)	MW-D1	9.833	n/a	10/16/2024	3.4	No	23	n/a	n/a	8.696	n/a	n/a	0.003391	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D2	9.833	n/a	10/16/2024	6	No	23	n/a	n/a	8.696	n/a	n/a	0.003391	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D3	9.833	n/a	10/16/2024	1.9J	No	23	n/a	n/a	8.696	n/a	n/a	0.003391	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D1	9.43	5.07	10/16/2024	6.84	No	24	n/a	n/a	0	n/a	n/a	0.006206	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D2	9.43	5.07	10/16/2024	6.76	No	24	n/a	n/a	0	n/a	n/a	0.006206	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D3	9.43	5.07	10/16/2024	7.48	No	24	n/a	n/a	0	n/a	n/a	0.006206	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D1	0.09568	n/a	10/16/2024	0.078J	No	24	0.2597	0.0405	12.5	None	sqrt(x)	0.01741	Param Inter 1 of 2
Fluoride (mg/L)	MW-D2	0.09568	n/a	10/16/2024	0.066J	No	24	0.2597	0.0405	12.5	None	sqrt(x)	0.01741	Param Inter 1 of 2
Fluoride (mg/L)	MW-D3	0.09568	n/a	10/16/2024	0.13	Yes	24	0.2597	0.0405	12.5	None	sqrt(x)	0.01741	Param Inter 1 of 2
Sulfate (mg/L)	MW-D1	4.426	n/a	10/16/2024	16	Yes	23	0.972	0.4183	8.696	None	ln(x)	0.01741	Param Inter 1 of 2
Sulfate (mg/L)	MW-D2	4.426	n/a	10/16/2024	13	Yes	23	0.972	0.4183	8.696	None	ln(x)	0.01741	Param Inter 1 of 2
Sulfate (mg/L)	MW-D3	4.426	n/a	10/16/2024	22	Yes	23	0.972	0.4183	8.696	None	ln(x)	0.01741	Param Inter 1 of 2
Total Dissolved Solids...	MW-D1	128.3	n/a	10/16/2024	130	Yes	23	102.1	21.26	0	None	No	0.01741	Param Inter 1 of 2
Total Dissolved Solids...	MW-D2	128.3	n/a	10/16/2024	360	Yes	23	102.1	21.26	0	None	No	0.01741	Param Inter 1 of 2
Total Dissolved Solids...	MW-D3	128.3	n/a	10/16/2024	210	Yes	23	102.1	21.26	0	None	No	0.01741	Param Inter 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Annual per-constituent alpha = 0.00928. Individual comparison alpha = 0.003103 (1 of 2). Comparing 3 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 12/17/2024 1:29 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Prediction Limit

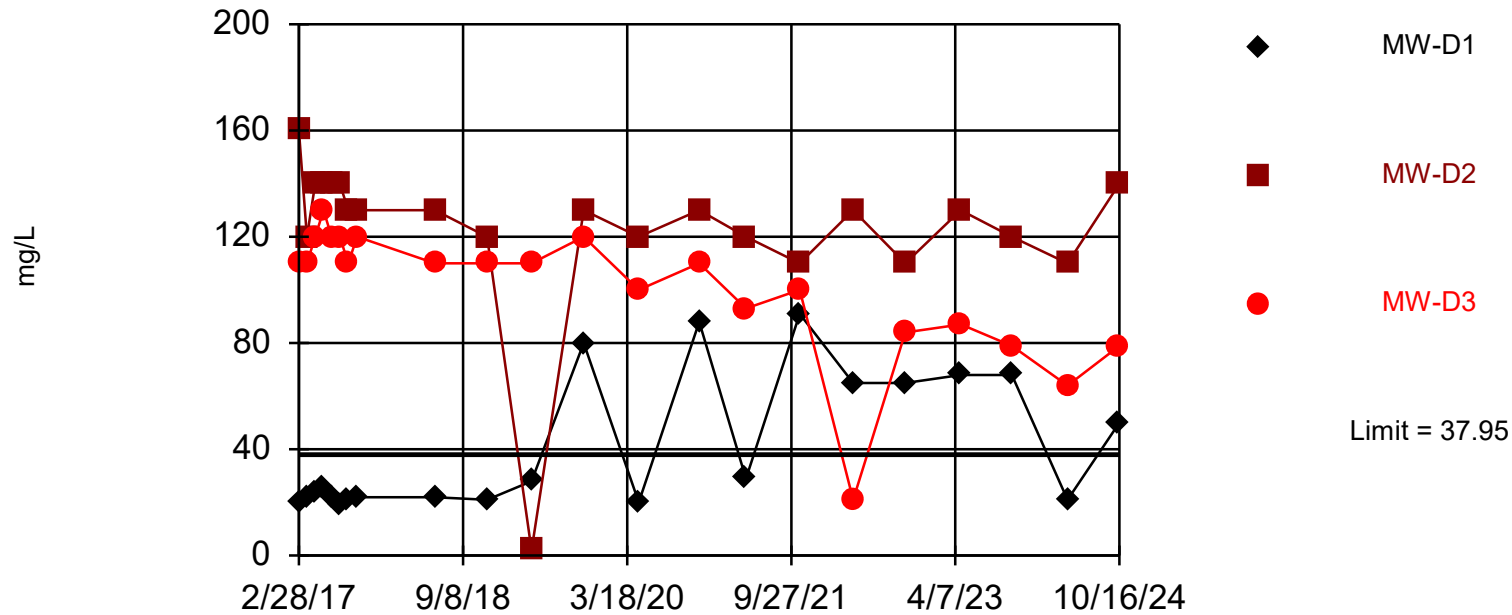
Constituent: Boron (mg/L) Analysis Run 12/17/2024 1:34 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-U1 (bg)	MW-D2	MW-D3
2/28/2017	0.065	<0.05	0.13	0.24
3/27/2017	0.066	<0.05	0.12	0.24
4/24/2017	0.079	<0.05	0.14	0.23
5/22/2017	0.1	<0.05	0.15	0.25
6/19/2017	0.091	<0.05	0.14	0.24
7/17/2017	0.094	<0.05	0.13	0.25
8/14/2017	0.11	<0.05	0.13	0.24
9/13/2017	0.15	<0.05	0.15	0.26
3/22/2018		0.0077		
6/5/2018	0.086	<0.05	0.11	0.21
11/29/2018	0.18	<0.05	0.14	0.27
4/29/2019	0.17	<0.05	0.15	0.25
10/23/2019	0.033	0.0051 (J)	0.19	0.27
4/27/2020	0.13	0.0042 (J)	0.13	0.23
11/19/2020	0.19	<0.05	0.15	0.25
4/26/2021	0.17	<0.05 (^)	0.12	0.19
10/26/2021	0.18	0.007 (J)	0.11 (B)	0.22
4/26/2022	0.15	0.0067 (J)	0.11	0.19
10/19/2022		<0.1		
10/20/2022	0.092 (J)		0.095 (J)	0.15
1/18/2023		<0.05 (^3+)		
4/26/2023	0.1 (B)	0.02 (JB)	0.12 (B)	
4/27/2023				0.17 (B)
10/17/2023	0.49	0.34	0.48	0.51
4/23/2024	0.099	<0.05	0.1	0.12
10/16/2024	0.13	<0.05	0.14	0.2

Exceeds Limit: MW-D1, MW-D2, MW-D3

Prediction Limit Interwell Parametric



Background Data Summary: Mean=34.91, Std. Dev.=2.466, n=23. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.881. Kappa = 1.232 (c=2, w=3, 1 of 2, event alpha = 0.1). Report alpha = 0.05132. Individual comparison alpha = 0.01741. Comparing 3 points to limit.

Constituent: Calcium Analysis Run 12/17/2024 1:30 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Prediction Limit

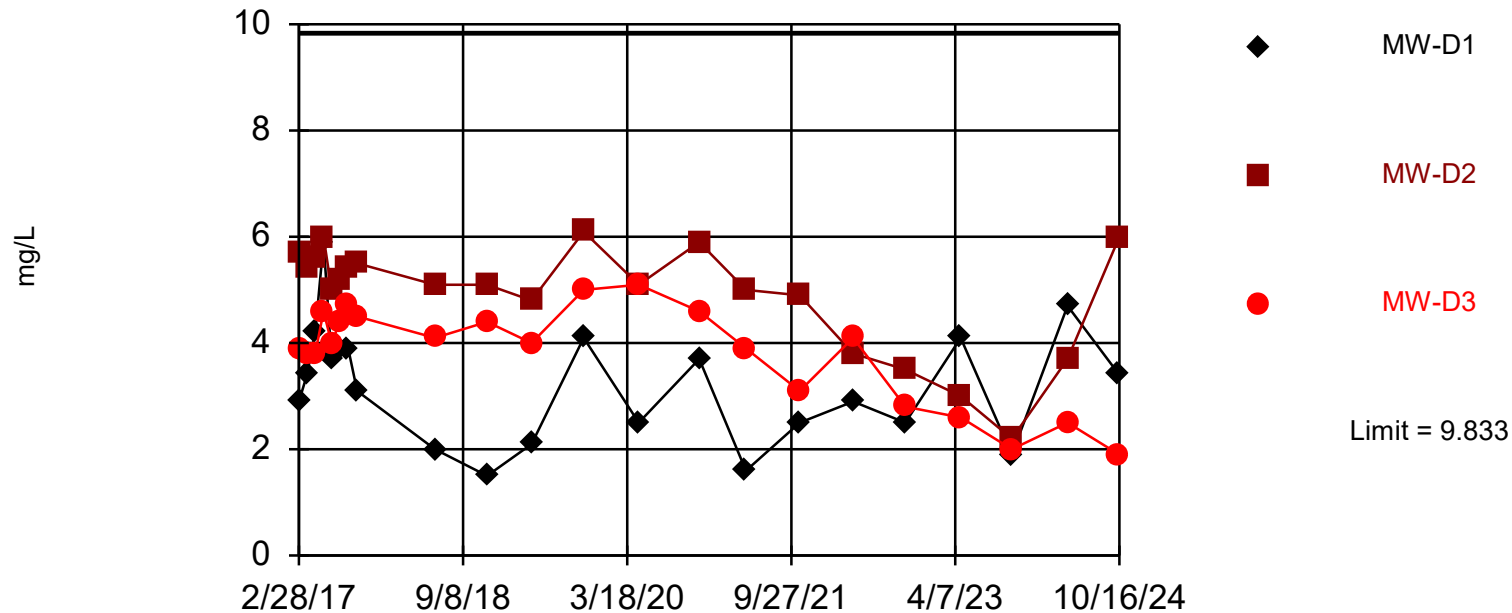
Constituent: Calcium (mg/L) Analysis Run 12/17/2024 1:34 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-D2	MW-D3	MW-U1 (bg)
2/28/2017	20	160	110	34
3/27/2017	22	120	110	32
4/24/2017	24	140	120	40
5/22/2017	26	140	130	36
6/19/2017	22	140	120	38
7/17/2017	19 (B)	140	120	37 (B)
8/14/2017	21	130	110	33
9/13/2017	22	130	120	35
6/5/2018	22	130	110	33
11/29/2018	21	120	110	32
4/29/2019	28	2	110	34
10/23/2019	80	130 (B)	120 (B)	38
4/27/2020	20	120	100	31
11/19/2020	88	130	110	36
4/26/2021	29	120	93 (B^)	33
10/26/2021	91	110	100	36
4/26/2022	65 (B)	130 (B)	21 (B)	34 (B)
10/19/2022				31
10/20/2022	65	110	84	
1/18/2023				36 (B)
4/26/2023	68	130		37
4/27/2023			87	
10/17/2023	68	120	79	36
4/23/2024	21	110	64	33
10/16/2024	50	140	79	38

Within Limit

Prediction Limit Interwell Non-parametric



Prediction Limit

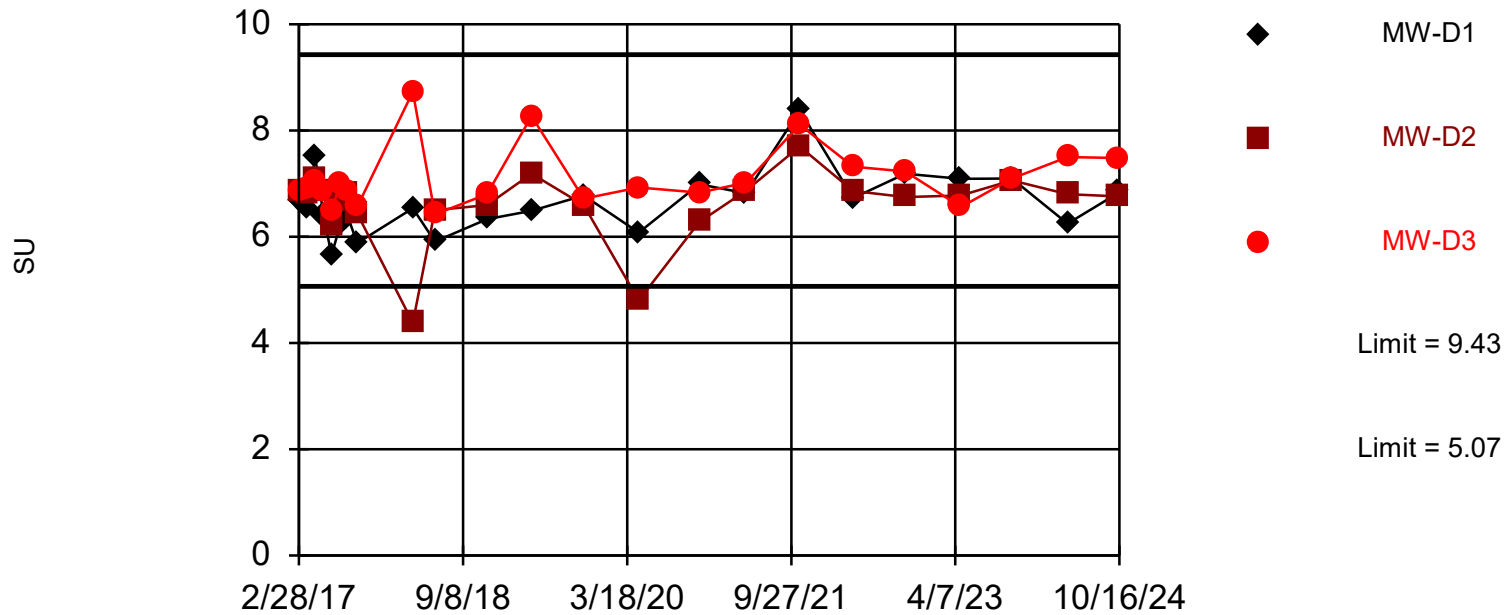
Constituent: Chloride (mg/L) Analysis Run 12/17/2024 1:34 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-U1 (bg)	MW-D2	MW-D3
2/28/2017	2.9	2.2	5.7 (F1)	3.9
3/27/2017	3.4	2.1	5.4	3.8
4/24/2017	4.2	1.8 (J)	5.6	3.8
5/22/2017	5.9	2.6	6	4.6
6/19/2017	3.7	1.9 (J)	5	4
7/17/2017	3.9	2.2	5.2	4.4
8/14/2017	3.9	2	5.4	4.7
9/13/2017	3.1	2.2	5.5	4.5
6/5/2018	2	1.8 (J)	5.1	4.1
11/29/2018	1.5 (J)	1.7 (J)	5.1	4.4
4/29/2019	2.1	1.4 (J)	4.8	4
10/23/2019	4.1	9.8 (D)	6.1	5
4/27/2020	2.5	2.4	5.1	5.1
11/19/2020	3.7	2.4	5.9	4.6
4/26/2021	1.6 (J)	9.833 (F1D)	5	3.9
10/26/2021	2.5	1.7 (J)	4.9	3.1
4/26/2022	2.9	1.9 (J)	3.8	4.1
10/19/2022		<2		
10/20/2022	2.5		3.5	2.8
1/18/2023		2.2		
4/26/2023	4.1	1.7 (J)	3	
4/27/2023				2.6
10/17/2023	1.9 (J)	1.9 (J)	2.2	2
4/23/2024	4.7	1.5 (J)	3.7	2.5
10/16/2024	3.4	<2	6	1.9 (J)

Within Limits

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. Limits are highest and lowest of 24 background values. Annual per-constituent alpha = 0.01856. Individual comparison alpha = 0.006206 (1 of 2). Comparing 3 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Field pH Analysis Run 12/17/2024 1:30 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Prediction Limit

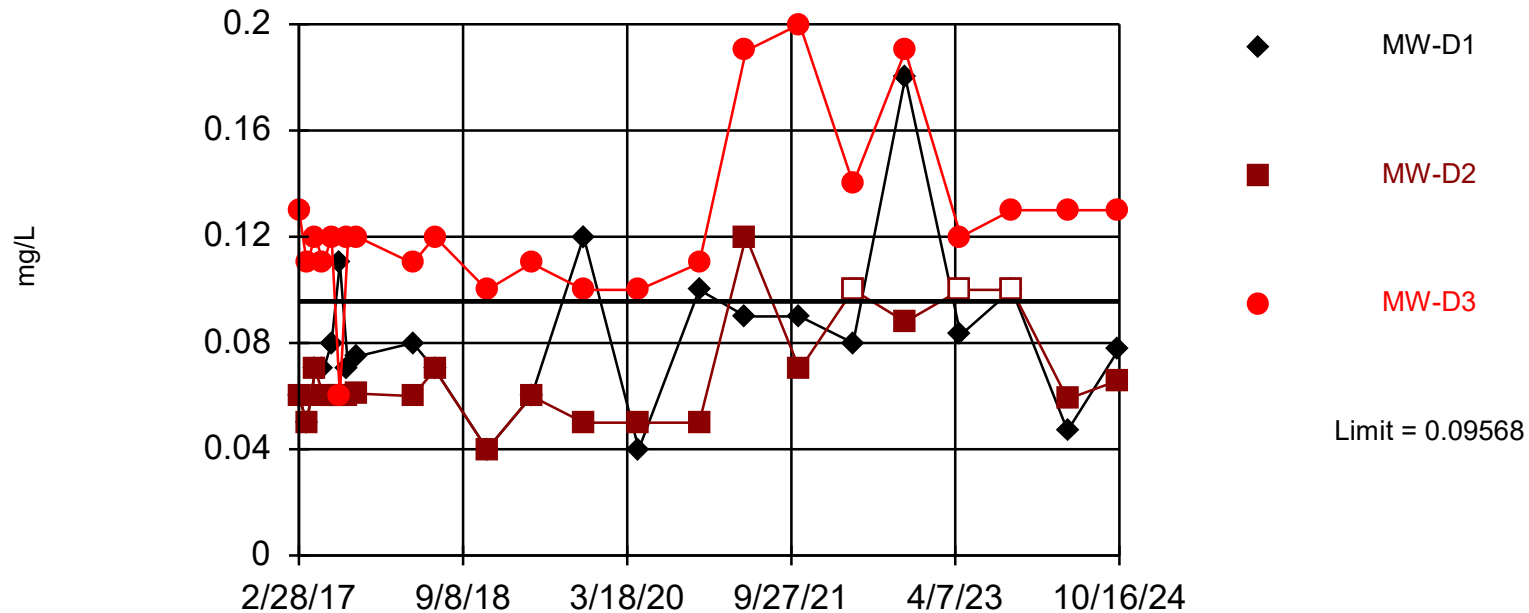
Constituent: Field pH (SU) Analysis Run 12/17/2024 1:34 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-U1 (bg)	MW-D2	MW-D3
2/28/2017	6.67	7.74	6.85	6.87
3/27/2017	6.55	7.78	6.83	6.92
4/24/2017	7.5	7.45	7.1	7.03
5/22/2017	6.39	7.77	6.86	6.88
6/19/2017	5.66	5.07	6.22	6.47
7/17/2017	6.2	6.37	6.68	7.01
8/14/2017	6.36	7.45	6.81	6.86
9/13/2017	5.88	7.63	6.44	6.56
3/22/2018	6.54	7.87	4.38	8.73
6/5/2018	5.91	6.74	6.5	6.42
11/29/2018	6.33	7.72	6.6	6.8
4/29/2019	6.49	7.84	7.19	8.27
10/23/2019	6.78	7.54	6.6	6.72
4/27/2020	6.08	6.05	4.8	6.93
11/19/2020	6.99	7.47	6.28	6.83
4/26/2021	6.82	7.91	6.87	7.02
10/26/2021	8.38	9.28	7.7	8.11
4/26/2022	6.73	8.1	6.86	7.32
10/19/2022		7.98		
10/20/2022	7.19		6.75	7.23
1/18/2023		9.43		
4/26/2023	7.09	7.82	6.78	
4/27/2023				6.56
10/17/2023	7.1	8.1	7.06	7.1
4/23/2024	6.25	7.92	6.8	7.5
10/16/2024	6.84	7.95	6.76	7.48

Exceeds Limit: MW-D3

Prediction Limit Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.2597, Std. Dev.=0.0405, n=24, 12.5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.884. Kappa = 1.226 (c=2, w=3, 1 of 2, event alpha = 0.1). Report alpha = 0.05132. Individual comparison alpha = 0.01741. Comparing 3 points to limit.

Constituent: Fluoride Analysis Run 12/17/2024 1:30 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Prediction Limit

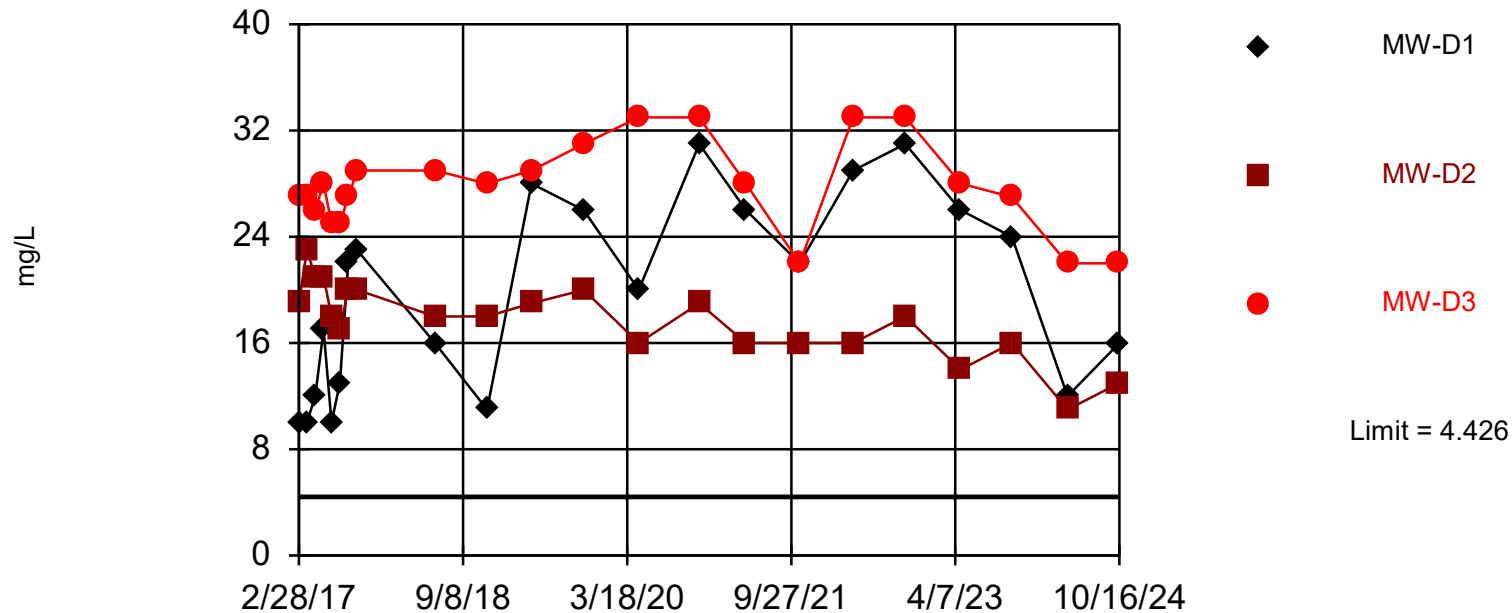
Constituent: Fluoride (mg/L) Analysis Run 12/17/2024 1:34 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-D2	MW-D3	MW-U1 (bg)
2/28/2017	0.06 (J)	0.06 (J)	0.13	0.06 (J)
3/27/2017	0.05 (J)	0.05 (J)	0.11	0.04 (J)
4/24/2017	0.07 (J)	0.07 (J)	0.12	0.06 (J)
5/22/2017	0.07 (J)	0.06 (J)	0.11	0.06 (J)
6/19/2017	0.08 (J)	0.06 (J)	0.12	0.06 (J)
7/17/2017	0.11	0.06 (J)	0.06 (J)	0.06 (J)
8/14/2017	0.07 (J)	0.06 (J)	0.12	0.05 (J)
9/13/2017	0.075 (J)	0.061 (J)	0.12	0.058 (J)
3/22/2018	0.08 (J)	0.06 (J)	0.11	0.07 (J)
6/5/2018	0.07 (J)	0.07 (J)	0.12	0.06 (J)
11/29/2018	0.04 (J)	0.04 (J)	0.1	0.04 (J)
4/29/2019	0.06 (J)	0.06 (J)	0.11	<0.1
10/23/2019	0.12 (B)	0.05 (JB)	0.1 (B)	0.05 (JB)
4/27/2020	0.04 (J)	0.05 (J)	0.1	0.05 (J)
11/19/2020	0.1	0.05 (J)	0.11	0.07 (J)
4/26/2021	0.09 (JB)	0.12 (B)	0.19 (B)	0.1 (B)
10/26/2021	0.09 (J)	0.07 (J)	0.2 (F1)	<0.1
4/26/2022	0.08 (J)	<0.1	0.14	0.07 (J)
10/19/2022				0.13
10/20/2022	0.18	0.088 (J)	0.19	
1/18/2023				0.075 (J)
4/26/2023	0.083 (J)	<0.1		<0.1
4/27/2023			0.12	
10/17/2023	0.1	<0.1	0.13	0.079 (J)
4/23/2024	0.047 (J)	0.059 (J)	0.13	0.05 (J)
10/16/2024	0.078 (J)	0.066 (J)	0.13	0.064 (J)

Exceeds Limit: MW-D1, MW-D2, MW-D3

Prediction Limit Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=0.972, Std. Dev.=0.4183, n=23, 8.696% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.881. Kappa = 1.232 (c=2, w=3, 1 of 2, event alpha = 0.1). Report alpha = 0.05132. Individual comparison alpha = 0.01741. Comparing 3 points to limit.

Constituent: Sulfate Analysis Run 12/17/2024 1:30 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Prediction Limit

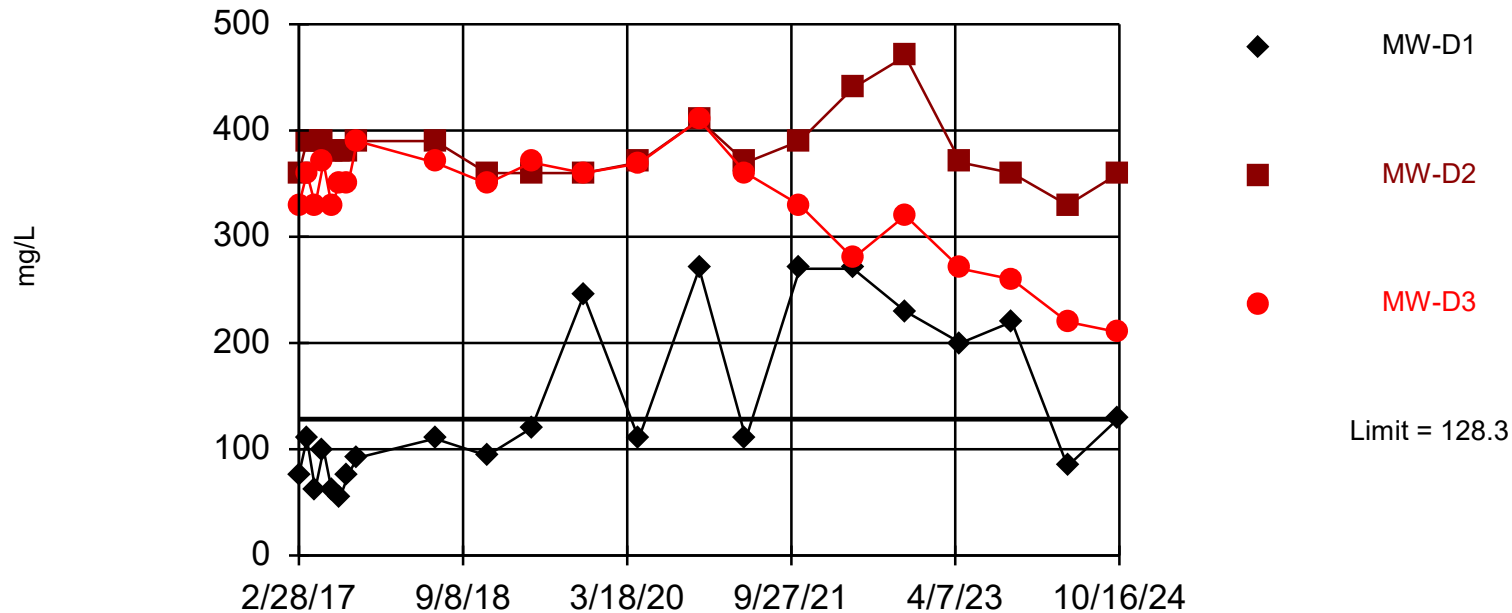
Constituent: Sulfate (mg/L) Analysis Run 12/17/2024 1:34 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-D2	MW-D3	MW-U1 (bg)
2/28/2017	10	19	27	2.8 (J)
3/27/2017	10	23	27	2.4 (J)
4/24/2017	12	21 (F1)	26	1.4 (J)
5/22/2017	17	21	28	1.5 (J)
6/19/2017	10	18	25	1.8 (J)
7/17/2017	13	17	25	2.8 (J)
8/14/2017	22	20	27	2.6 (J)
9/13/2017	23	20	29	3.1 (J)
6/5/2018	16	18	29	2.9 (J)
11/29/2018	11	18	28	2 (J)
4/29/2019	28	19	29	<5
10/23/2019	26	20	31	2.8 (J)
4/27/2020	20	16	33	2.6 (J)
11/19/2020	31	19	33	2.3 (J)
4/26/2021	26	16	28	8.867 (D)
10/26/2021	22	16	22	<5
4/26/2022	29	16	33	4.3 (J)
10/19/2022				2.4 (J)
10/20/2022	31	18	33	
1/18/2023				1.9 (J)
4/26/2023	26	14		2 (J)
4/27/2023			28	
10/17/2023	24	16	27	2 (J)
4/23/2024	12	11	22	2.3 (J)
10/16/2024	16	13	22	2.3 (J)

Exceeds Limit: MW-D1, MW-D2, MW-D3

Prediction Limit Interwell Parametric



Background Data Summary: Mean=102.1, Std. Dev.=21.26, n=23. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.881. Kappa = 1.232 (c=2, w=3, 1 of 2, event alpha = 0.1). Report alpha = 0.05132. Individual comparison alpha = 0.01741. Comparing 3 points to limit.

Constituent: Total Dissolved Solids Analysis Run 12/17/2024 1:30 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/17/2024 1:34 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

	MW-D1	MW-D2	MW-D3	MW-U1 (bg)
2/28/2017	76	360	330	80
3/27/2017	110	390	360	120
4/24/2017	62	390	330	44
5/22/2017	100	390	370	100
6/19/2017	62	380	330	92
7/17/2017	54	380	350	78
8/14/2017	76	380	350	86
9/13/2017	92	390	390	110
6/5/2018	110	390	370	110
11/29/2018	94	360	350	66
4/29/2019	120	360	370	120
10/23/2019	245 (D)	360	360	120
4/27/2020	110	370	369 (D)	120
11/19/2020	270	410	410	130
4/26/2021	110	370	360	98
10/26/2021	270	390	330	86
4/26/2022	270	440	280	98
10/19/2022				130
10/20/2022	230	470	320	
1/18/2023				110
4/26/2023	200	370		110
4/27/2023			270	
10/17/2023	220 (H)	360 (H)	260 (H)	110 (H)
4/23/2024	84	330	220	120
10/16/2024	130 (H)	360 (H)	210 (H)	110 (H)

Summary Report

Constituent: Antimony Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 62
ND/Trace = 62
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0025
Mean Value = 0.002371
Median Value = 0.0025
Standard Deviation = 0.0004954
Coefficient of Variation = 0.2089
Skewness = -3.545

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	15	15	0.0005	0.0025	0.002367	0.0025	0.0005164	0.2182	-3.474
MW-D2	15	15	0.0005	0.0025	0.002367	0.0025	0.0005164	0.2182	-3.474
MW-D3	15	15	0.0005	0.0025	0.002367	0.0025	0.0005164	0.2182	-3.474
MW-U1 (bg)	17	17	0.0005	0.0025	0.002382	0.0025	0.0004851	0.2036	-3.75

Summary Report

Constituent: Arsenic Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 89
ND/Trace = 82
Wells = 4
Minimum Value = 0.00015
Maximum Value = 0.0025
Mean Value = 0.001231
Median Value = 0.0013
Standard Deviation = 0.0004118
Coefficient of Variation = 0.3344
Skewness = 0.4247

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	22	22	0.00025	0.0025	0.001307	0.0013	0.0003479	0.2662	0.6001
MW-D2	22	18	0.00027	0.0025	0.001233	0.0013	0.0004035	0.3272	0.4668
MW-D3	22	6	0.00048	0.0025	0.00109	0.00105	0.0004623	0.424	1.072
MW-U1 (bg)	23	19	0.00015	0.0025	0.001292	0.0013	0.0004171	0.3229	-0.04788

Summary Report

Constituent: Barium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 93
ND/Trace = 15
Wells = 4
Minimum Value = 0.0018
Maximum Value = 0.23
Mean Value = 0.0715
Median Value = 0.027
Standard Deviation = 0.07283
Coefficient of Variation = 1.019
Skewness = 0.5657

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	23	0	0.0095	0.027	0.01467	0.014	0.004561	0.311	1.235
MW-D2	23	0	0.087	0.19	0.1433	0.14	0.0236	0.1646	-0.1336
MW-D3	23	0	0.038	0.23	0.1284	0.13	0.06521	0.5077	0.1357
MW-U1 (bg)	24	0	0.0018	0.0062	0.002538	0.0022	0.0009306	0.3667	2.762

Summary Report

Constituent: Beryllium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 4/23/2024, a summary of the selected data set:

Observations = 61
ND/Trace = 61
Wells = 4
Minimum Value = 0.0004
Maximum Value = 0.0025
Mean Value = 0.001928
Median Value = 0.002
Standard Deviation = 0.0004267
Coefficient of Variation = 0.2213
Skewness = -2.92

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	15	15	0.0004	0.0025	0.001927	0.002	0.0004415	0.2292	-2.89
MW-D2	15	15	0.0004	0.0025	0.001927	0.002	0.0004415	0.2292	-2.89
MW-D3	15	15	0.0004	0.0025	0.001927	0.002	0.0004415	0.2292	-2.89
MW-U1 (bg)	16	16	0.0004	0.0025	0.001931	0.002	0.000427	0.2211	-3.009

Summary Report

Constituent: Cadmium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 4/23/2024, a summary of the selected data set:

Observations = 65
ND/Trace = 65
Wells = 4
Minimum Value = 0.000071
Maximum Value = 0.0025
Mean Value = 0.001039
Median Value = 0.001
Standard Deviation = 0.0004312
Coefficient of Variation = 0.4149
Skewness = 1.862

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	16	16	0.0002	0.0025	0.001044	0.001	0.0004366	0.4183	2.057
MW-D2	16	15	0.000075	0.0025	0.001036	0.001	0.0004535	0.4378	1.661
MW-D3	16	15	0.000071	0.0025	0.001036	0.001	0.0004541	0.4384	1.648
MW-U1 (bg)	17	17	0.0002	0.0025	0.001041	0.001	0.0004229	0.4062	2.137

Summary Report

Constituent: Chromium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 85
ND/Trace = 79
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0051
Mean Value = 0.002309
Median Value = 0.0025
Standard Deviation = 0.0008179
Coefficient of Variation = 0.3542
Skewness = 0.7586

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	21	18	0.0005	0.005	0.002486	0.0025	0.000792	0.3186	0.7785
MW-D2	21	18	0.0005	0.0038	0.00241	0.0025	0.0006008	0.2493	-1.424
MW-D3	21	18	0.0005	0.0037	0.002443	0.0025	0.0005555	0.2274	-1.691
MW-U1 (bg)	22	2	0.0011	0.0051	0.001918	0.00145	0.001105	0.5762	2.121

Summary Report

Constituent: Cobalt Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 82
ND/Trace = 81
Wells = 4
Minimum Value = 0.00035
Maximum Value = 0.0025
Mean Value = 0.002112
Median Value = 0.0025
Standard Deviation = 0.0006787
Coefficient of Variation = 0.3213
Skewness = -1.372

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	20	19	0.0005	0.0025	0.002355	0.0025	0.0004807	0.2041	-3.287
MW-D2	20	18	0.00047	0.0025	0.002323	0.0025	0.00055	0.2367	-2.787
MW-D3	20	5	0.00035	0.0025	0.00149	0.00135	0.0006749	0.4528	0.3901
MW-U1 (bg)	22	21	0.0005	0.0025	0.002264	0.0025	0.0006253	0.2762	-2.316

Summary Report

Constituent: Combined Radium 226 + 228 Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 92
ND/Trace = 26
Wells = 4
Minimum Value = -0.15
Maximum Value = 1.72
Mean Value = 0.482
Median Value = 0.473
Standard Deviation = 0.3321
Coefficient of Variation = 0.689
Skewness = 0.9416

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	23	6	0.0994	1.42	0.4849	0.439	0.3205	0.6609	1.049
MW-D2	23	6	0.0139	1.28	0.5402	0.506	0.2922	0.5409	0.6272
MW-D3	23	7	0	1.28	0.5394	0.545	0.2971	0.5508	0.5732
MW-U1 (bg)	23	7	-0.15	1.72	0.3634	0.298	0.3977	1.094	1.702

Summary Report

Constituent: Fluoride Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 93
ND/Trace = 63
Wells = 4
Minimum Value = 0.04
Maximum Value = 0.2
Mean Value = 0.0853
Median Value = 0.075
Standard Deviation = 0.03485
Coefficient of Variation = 0.4086
Skewness = 1.147

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	23	0	0.04	0.18	0.08013	0.078	0.0301	0.3756	1.518
MW-D2	23	3	0.04	0.12	0.068	0.06	0.02006	0.295	1.135
MW-D3	23	0	0.06	0.2	0.1248	0.12	0.03146	0.2521	0.9703
MW-U1 (bg)	24	3	0.04	0.13	0.069	0.06	0.02232	0.3235	1.059

Summary Report

Constituent: Lead Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 62
ND/Trace = 62
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0013
Mean Value = 0.001186
Median Value = 0.0013
Standard Deviation = 0.0003078
Coefficient of Variation = 0.2596
Skewness = -2.423

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	15	14	0.00025	0.0013	0.001197	0.0013	0.0002918	0.2439	-2.667
MW-D2	15	13	0.00025	0.0013	0.001115	0.0013	0.0003866	0.3468	-1.555
MW-D3	15	15	0.00025	0.0013	0.00123	0.0013	0.0002711	0.2204	-3.474
MW-U1 (bg)	17	16	0.00025	0.0013	0.0012	0.0013	0.000291	0.2425	-2.637

Summary Report

Constituent: Lithium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 4/23/2024, a summary of the selected data set:

Observations = 73
ND/Trace = 71
Wells = 4
Minimum Value = 0.00034
Maximum Value = 0.0058
Mean Value = 0.002477
Median Value = 0.0025
Standard Deviation = 0.0008673
Coefficient of Variation = 0.3501
Skewness = 0.8568

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	18	17	0.0005	0.005	0.002517	0.0025	0.0007778	0.3091	0.9136
MW-D2	18	16	0.0005	0.005	0.002483	0.0025	0.0008597	0.3462	0.5454
MW-D3	18	15	0.00048	0.005	0.002454	0.0025	0.0008311	0.3386	0.7654
MW-U1 (bg)	19	17	0.00034	0.0058	0.002455	0.0025	0.001041	0.4242	1.037

Summary Report

Constituent: Mercury Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 4/23/2024, a summary of the selected data set:

Observations = 61
ND/Trace = 61
Wells = 4
Minimum Value = 0.000077
Maximum Value = 0.0002
Mean Value = 0.000193
Median Value = 0.0002
Standard Deviation = 0.00002549
Coefficient of Variation = 0.132
Skewness = -3.576

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	15	14	0.000077	0.0002	0.0001918	0.0002	0.00003176	0.1656	-3.474
MW-D2	15	13	0.00011	0.0002	0.0001927	0.0002	0.00002344	0.1217	-3.225
MW-D3	15	14	0.00011	0.0002	0.000194	0.0002	0.00002324	0.1198	-3.474
MW-U1 (bg)	16	15	0.000099	0.0002	0.0001937	0.0002	0.00002525	0.1304	-3.615

Summary Report

Constituent: Molybdenum Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 85
ND/Trace = 85
Wells = 4
Minimum Value = 0.0011
Maximum Value = 0.02
Mean Value = 0.008428
Median Value = 0.01
Standard Deviation = 0.004118
Coefficient of Variation = 0.4886
Skewness = 0.0867

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	21	21	0.002	0.02	0.01033	0.01	0.003055	0.2957	0.7647
MW-D2	21	18	0.0012	0.02	0.009157	0.01	0.004349	0.475	-0.07089
MW-D3	21	4	0.0017	0.01	0.00481	0.0032	0.003115	0.6477	0.7594
MW-U1 (bg)	22	21	0.0011	0.02	0.009368	0.01	0.003674	0.3922	-0.0169

Summary Report

Constituent: Selenium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 74
ND/Trace = 67
Wells = 4
Minimum Value = 0.00021
Maximum Value = 0.0028
Mean Value = 0.001171
Median Value = 0.0013
Standard Deviation = 0.000473
Coefficient of Variation = 0.4038
Skewness = 0.4532

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	18	15	0.00025	0.0014	0.001167	0.0013	0.0003393	0.2907	-2.094
MW-D2	18	14	0.00025	0.0026	0.001204	0.0013	0.0004948	0.411	0.4786
MW-D3	18	12	0.00021	0.0028	0.001279	0.0013	0.0006516	0.5093	0.5997
MW-U1 (bg)	20	13	0.00039	0.0013	0.001049	0.0013	0.0003601	0.3434	-0.7762

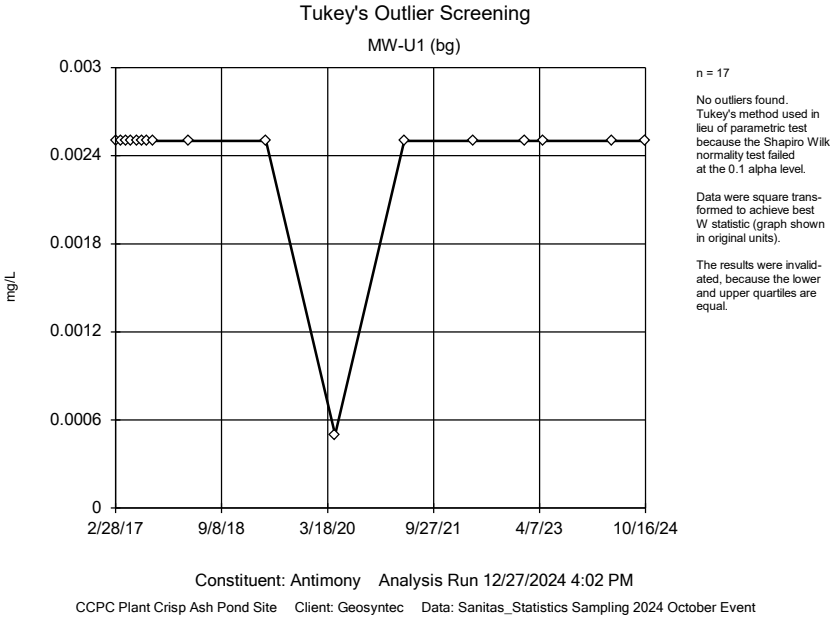
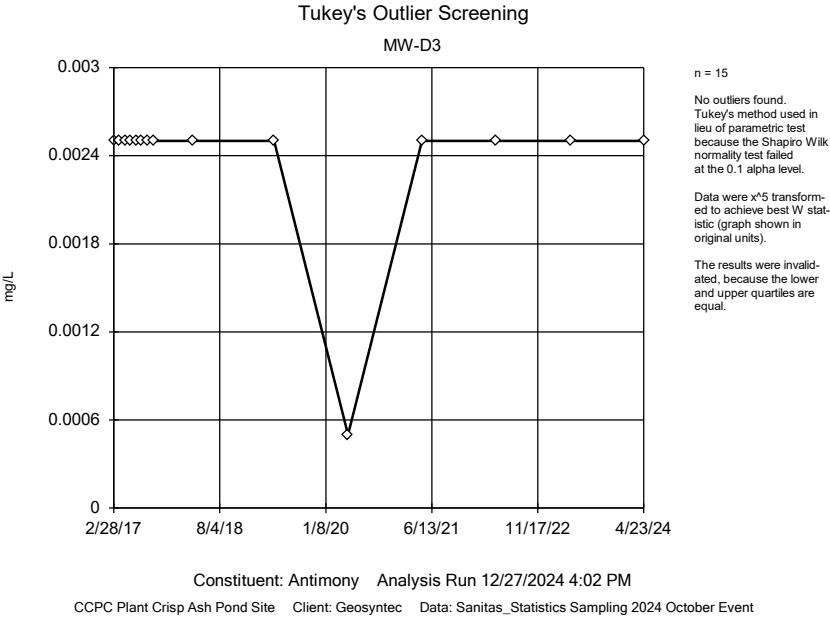
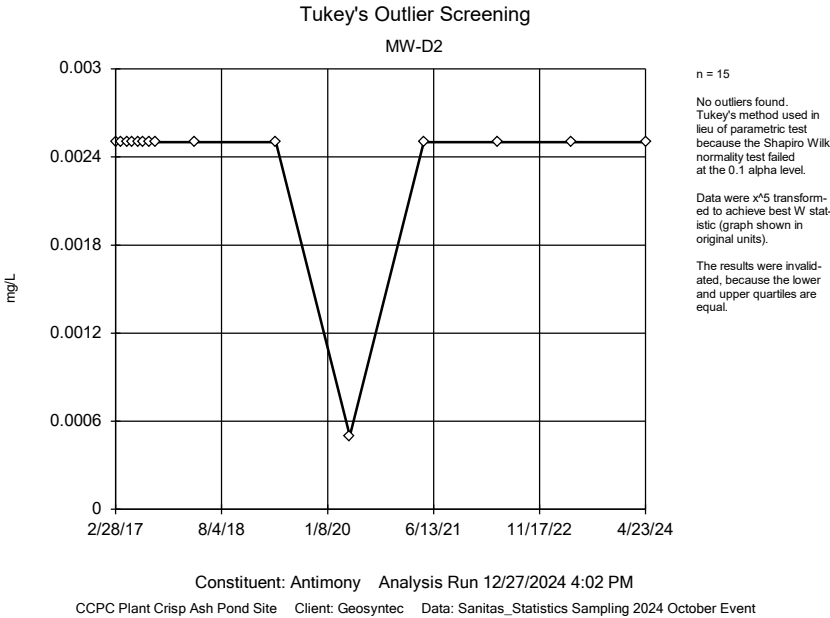
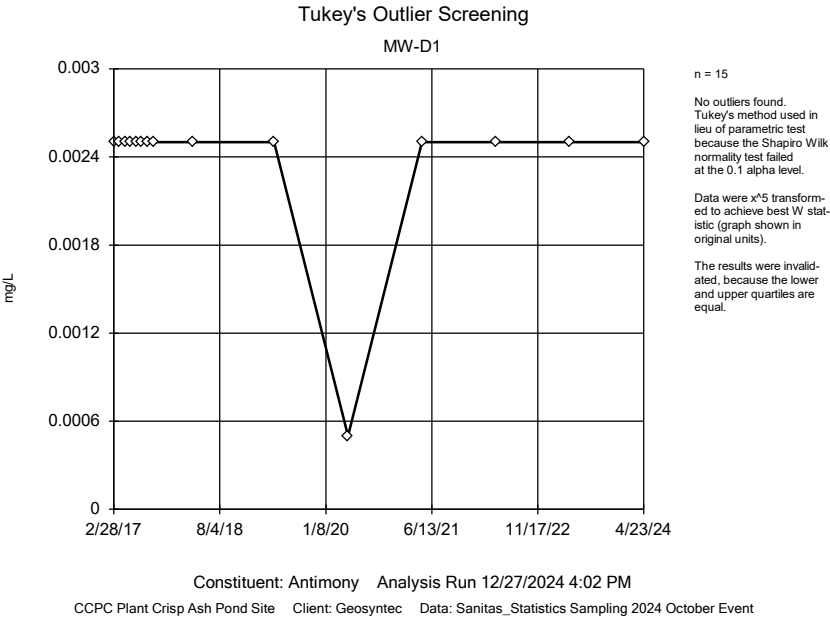
Summary Report

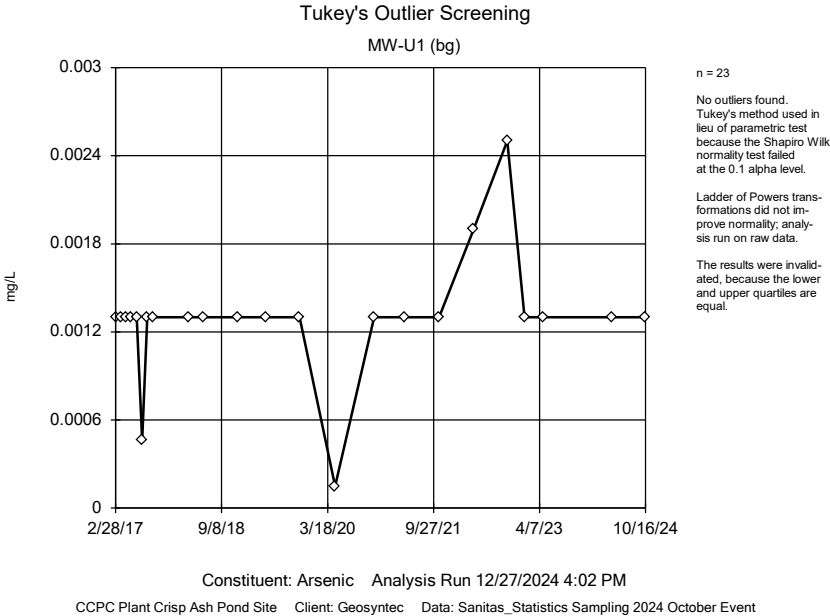
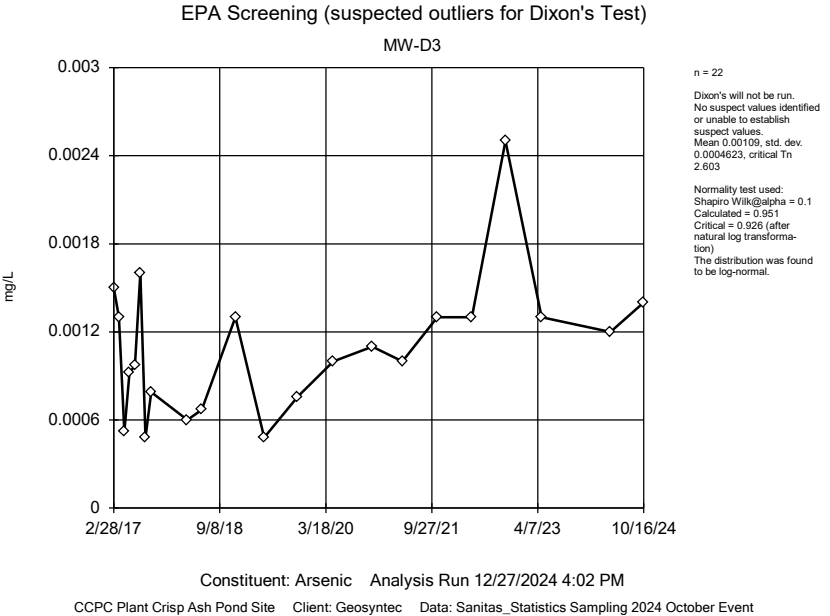
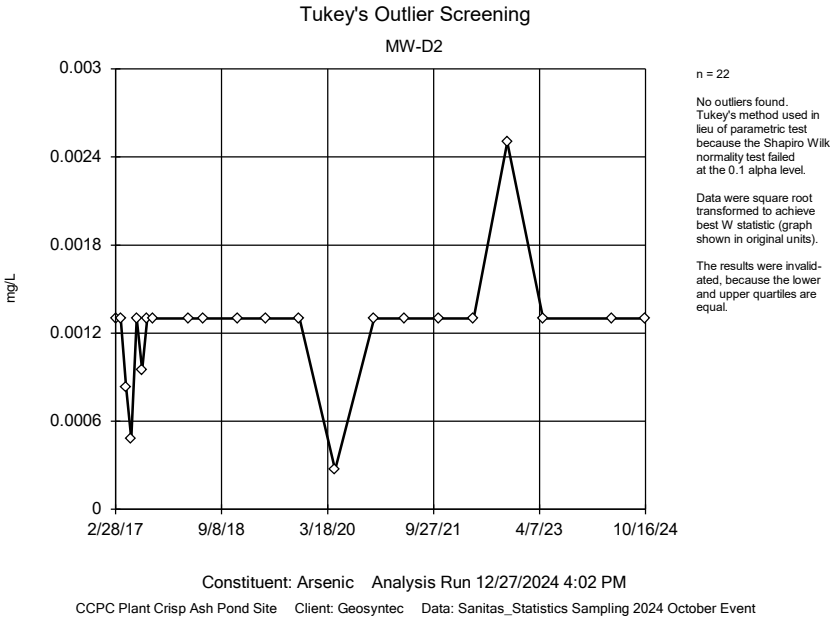
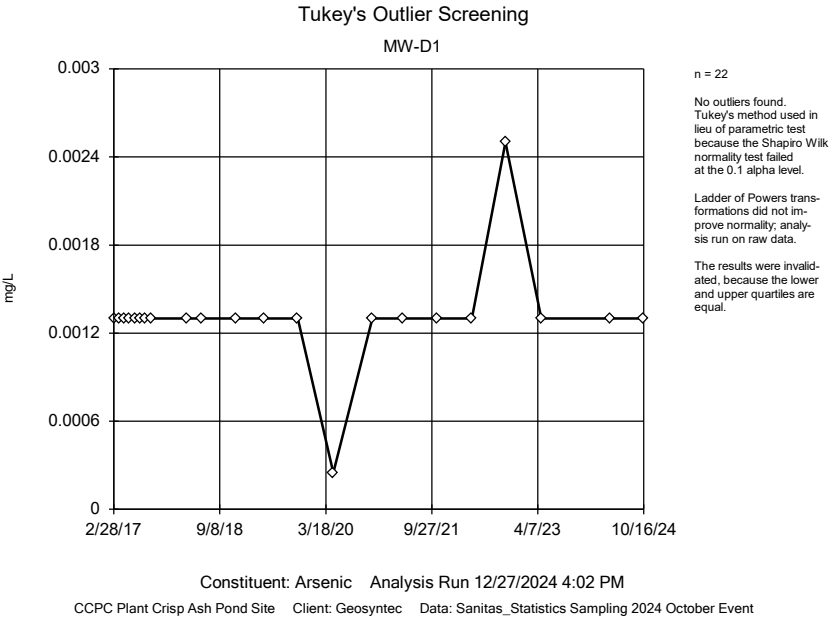
Constituent: Thallium Analysis Run 12/27/2024 4:01 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

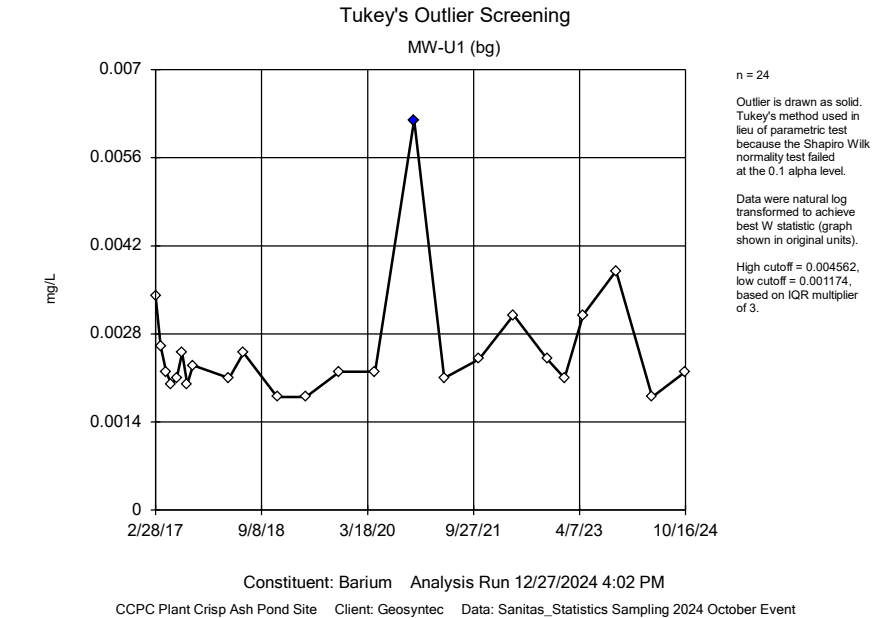
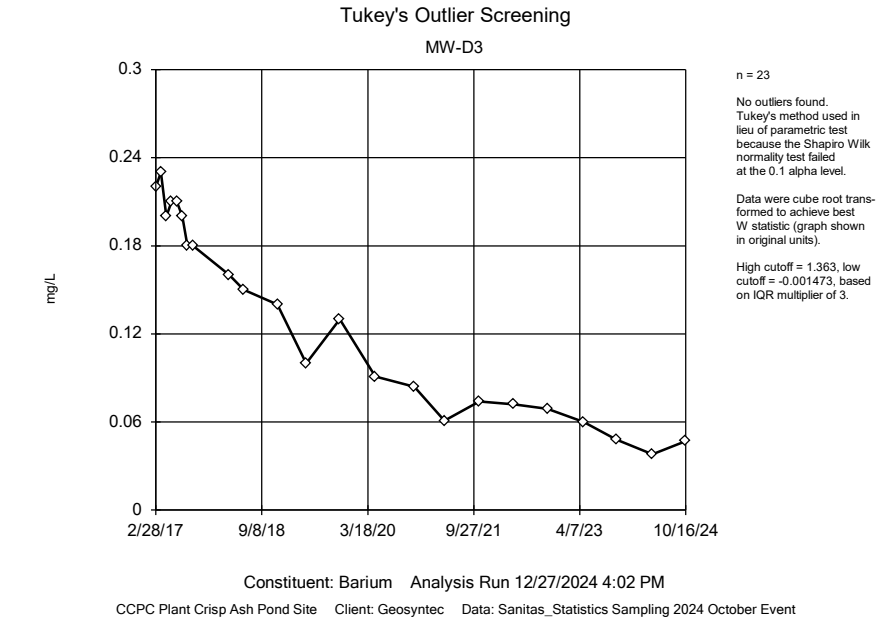
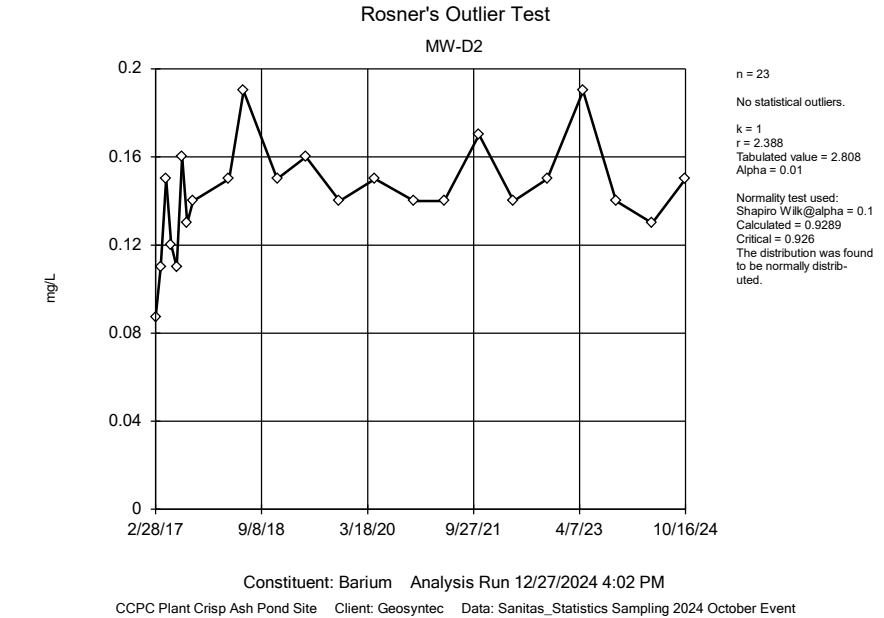
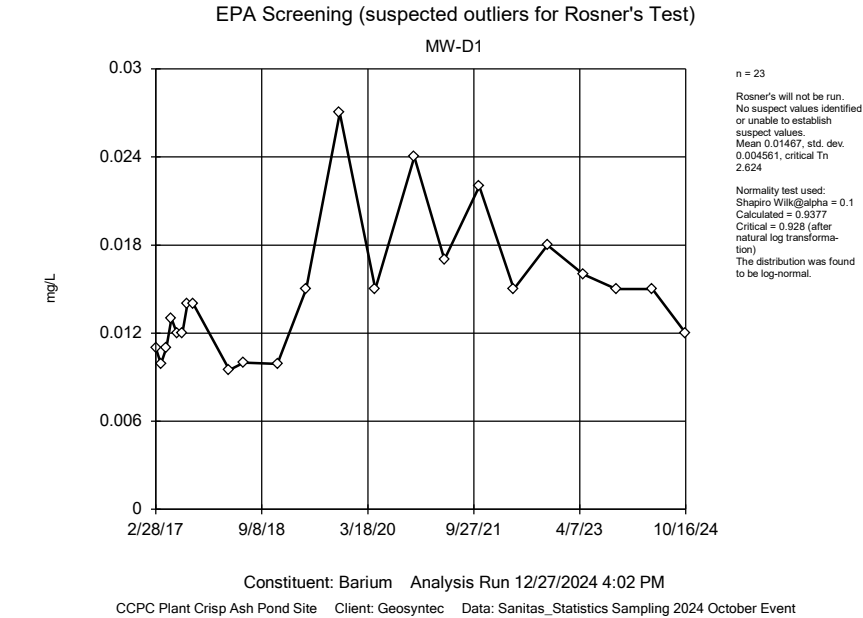
For observations made between 2/28/2017 and 4/23/2024, a summary of the selected data set:

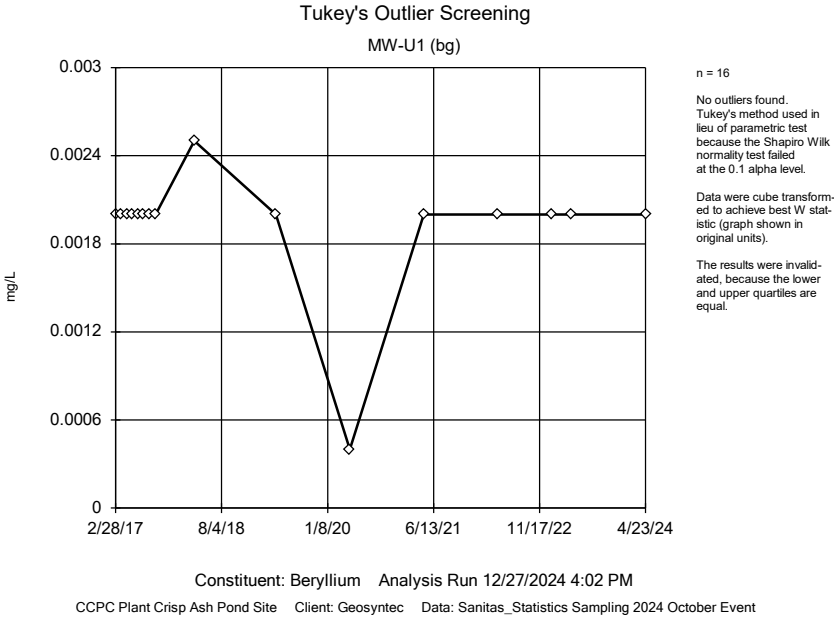
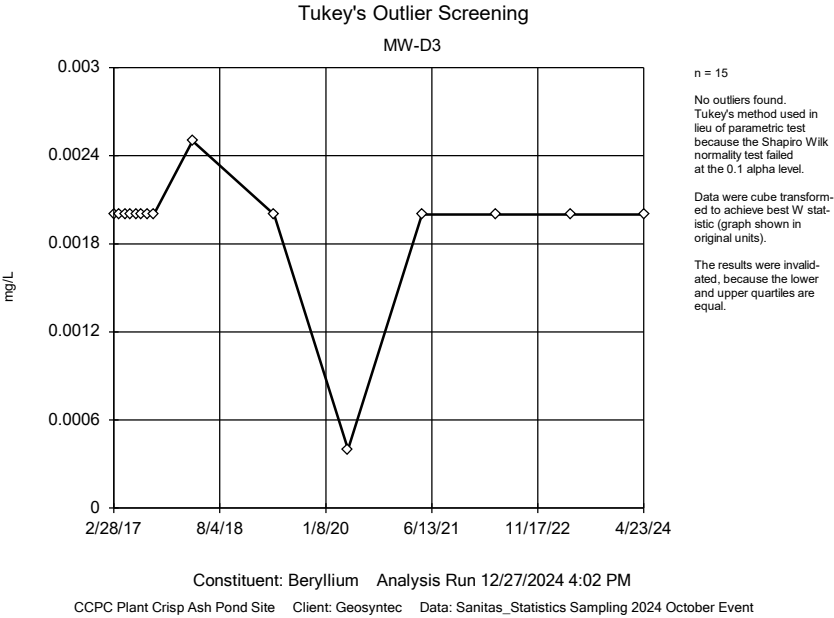
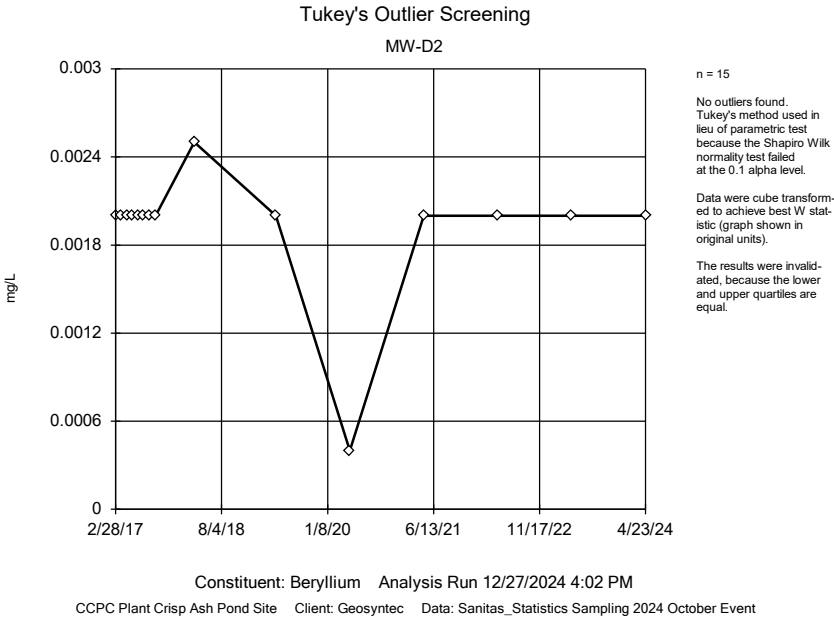
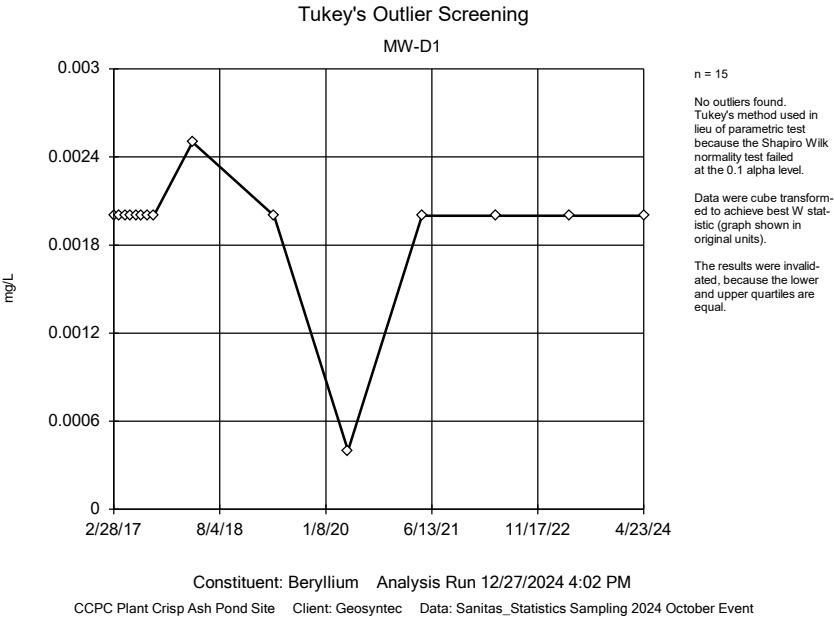
Observations = 77
ND/Trace = 75
Wells = 4
Minimum Value = 0.000085
Maximum Value = 0.0005
Mean Value = 0.0003714
Median Value = 0.0005
Standard Deviation = 0.0001824
Coefficient of Variation = 0.491
Skewness = -0.7153

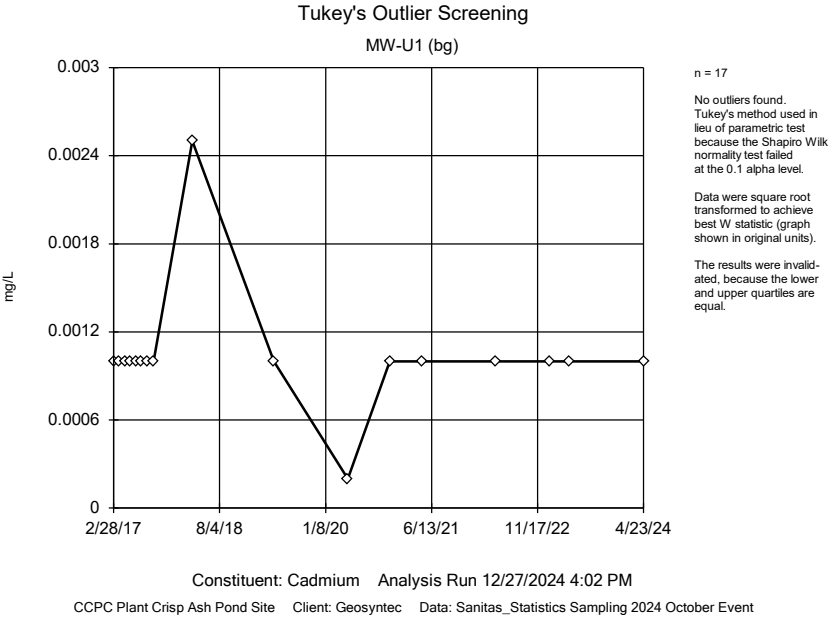
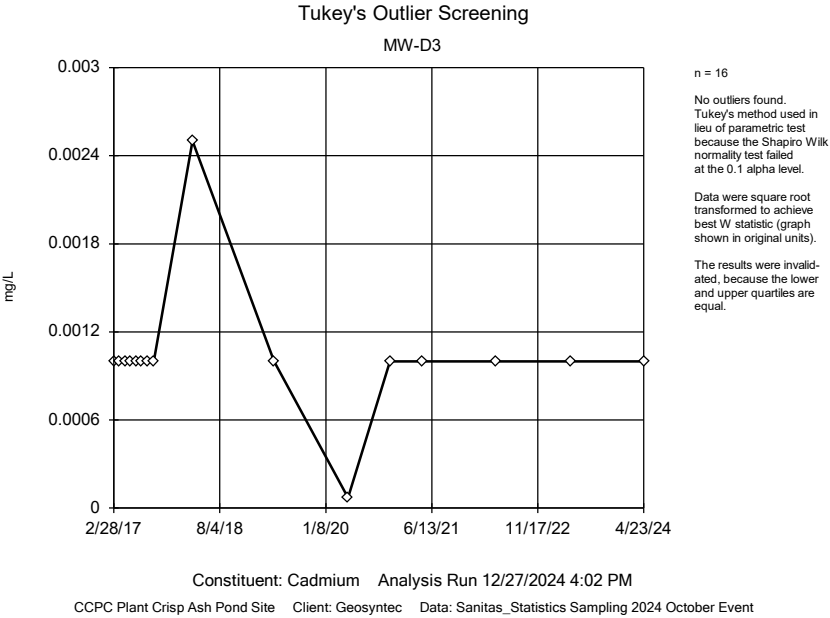
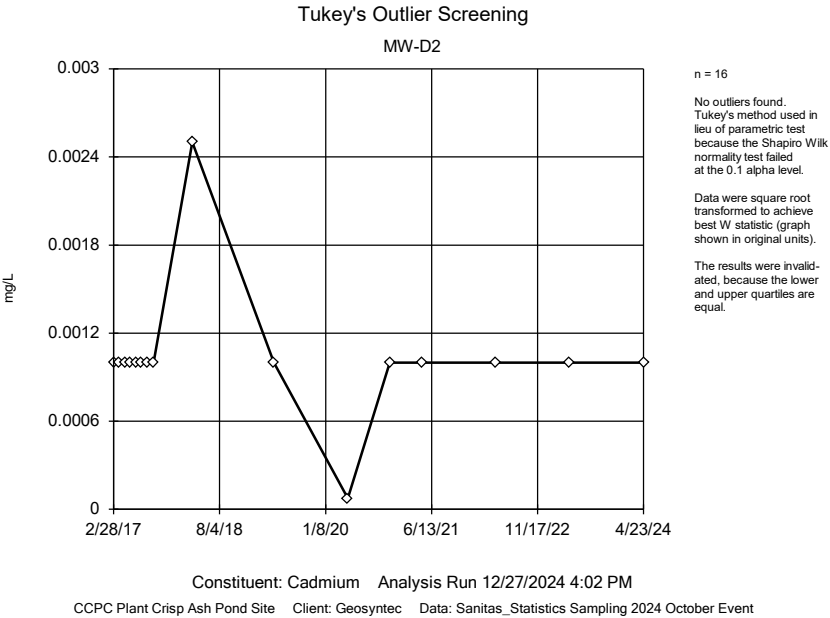
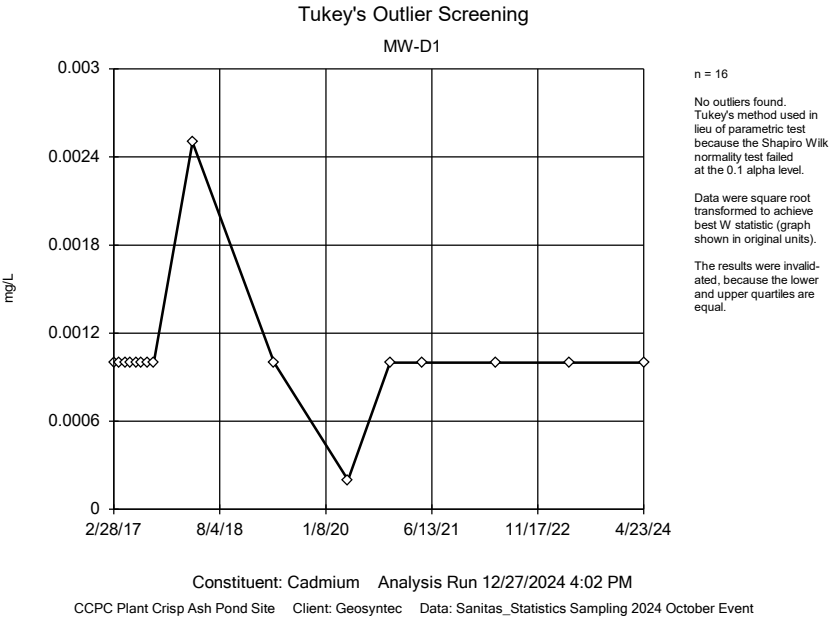
<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D1	19	19	0.0001	0.0005	0.0004789	0.0005	0.00009177	0.1916	-4.007
MW-D2	19	9	0.000085	0.0005	0.0003026	0.00026	0.0001956	0.6463	0.02693
MW-D3	19	5	0.000095	0.0005	0.0002182	0.00012	0.0001738	0.7965	1.049
MW-U1 (bg)	20	20	0.0001	0.0005	0.00048	0.0005	0.00008944	0.1863	-4.129

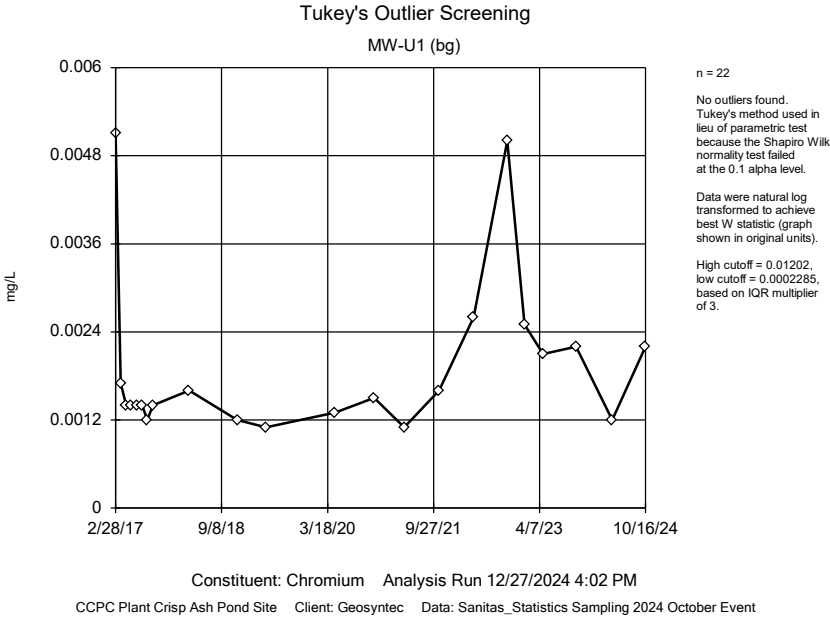
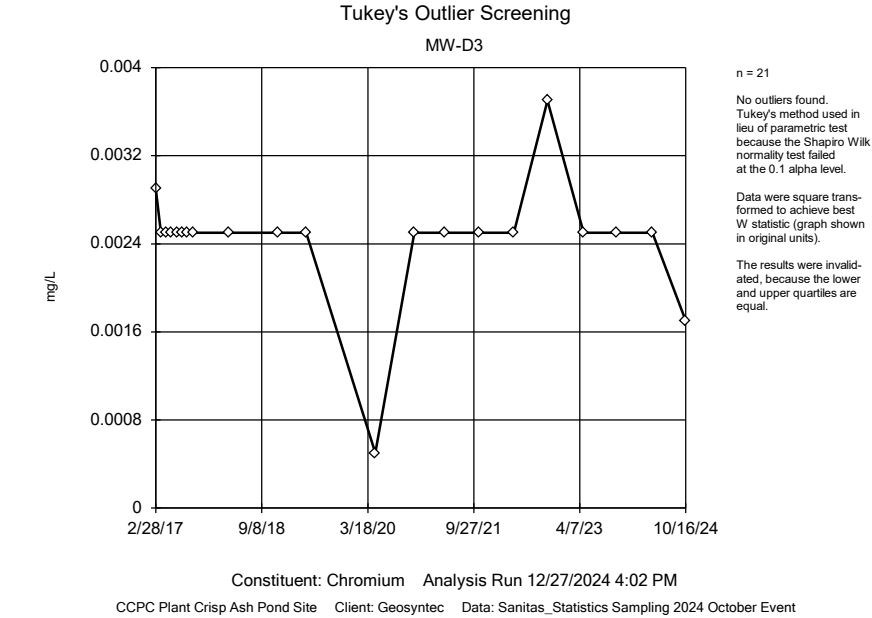
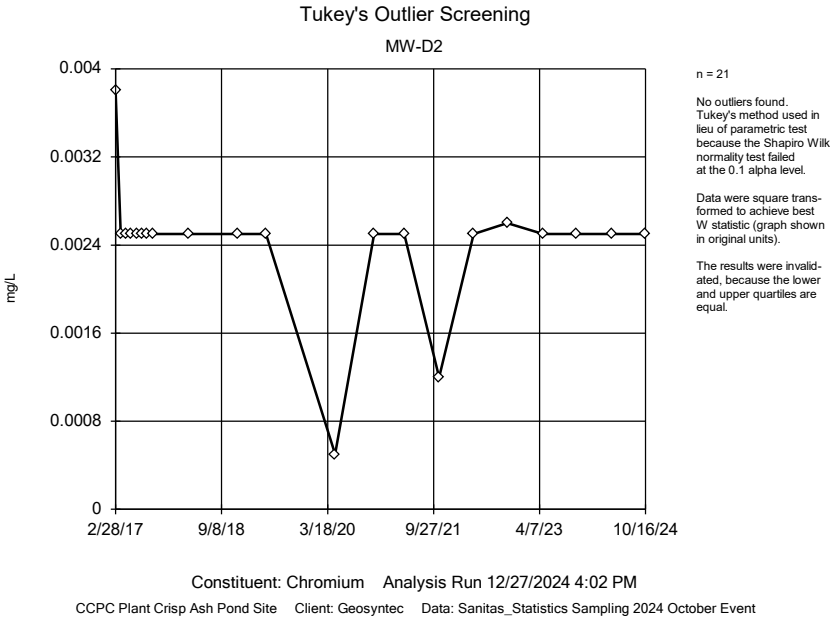
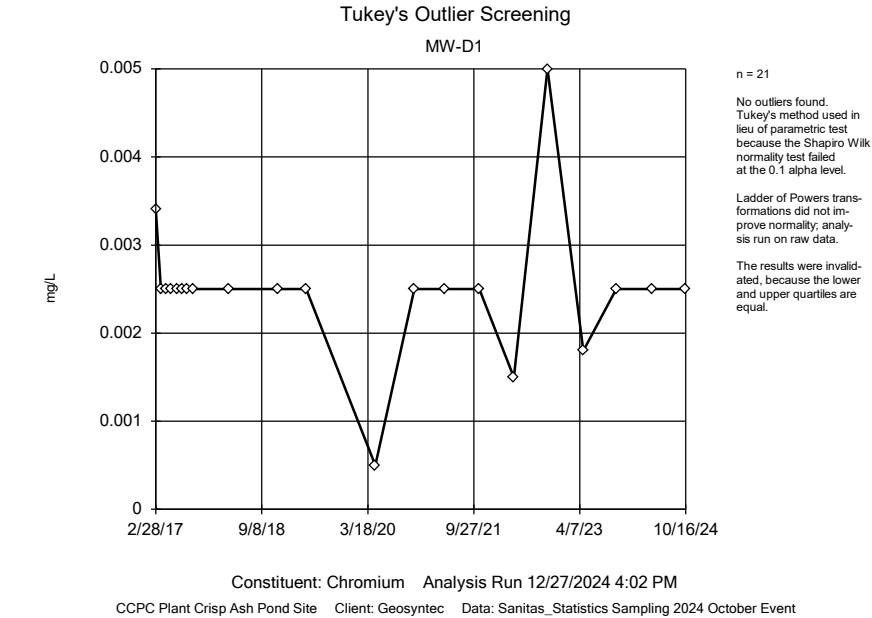


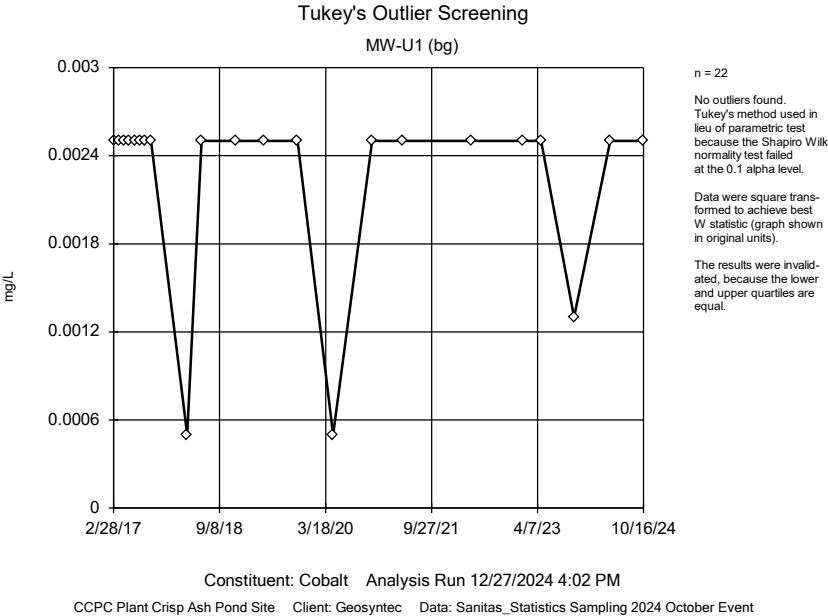
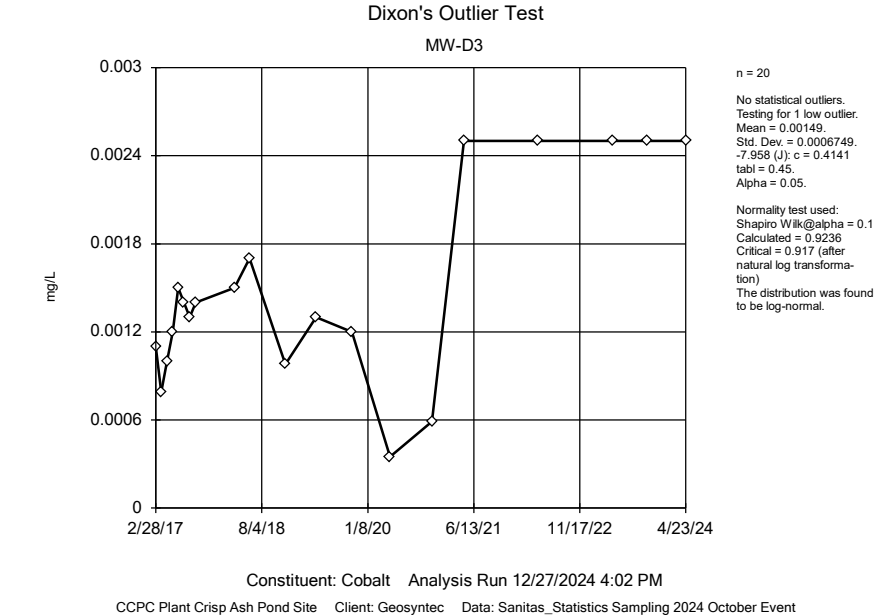
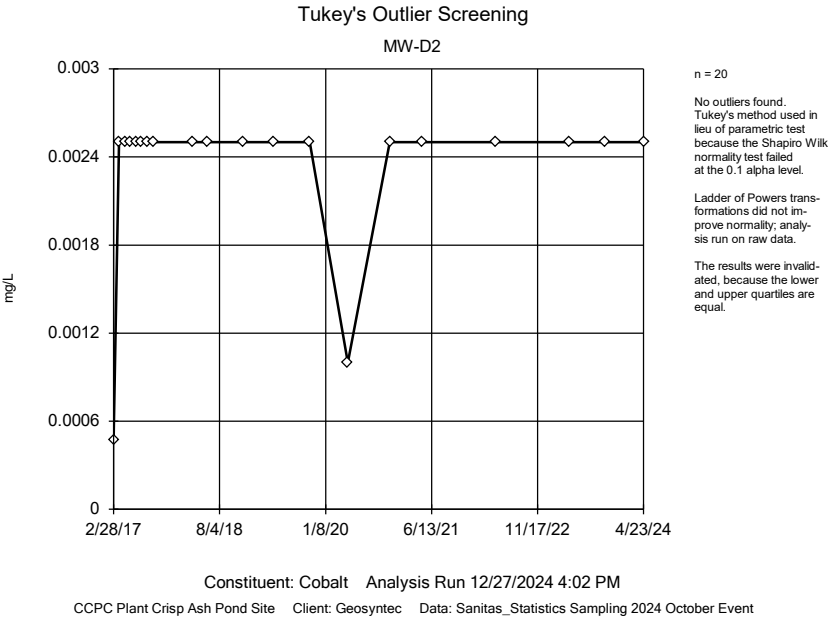
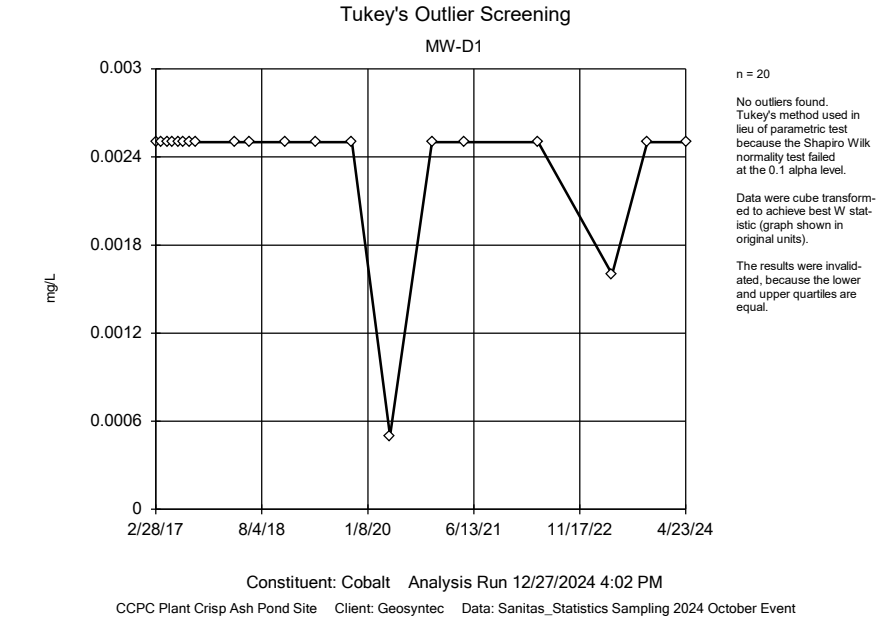




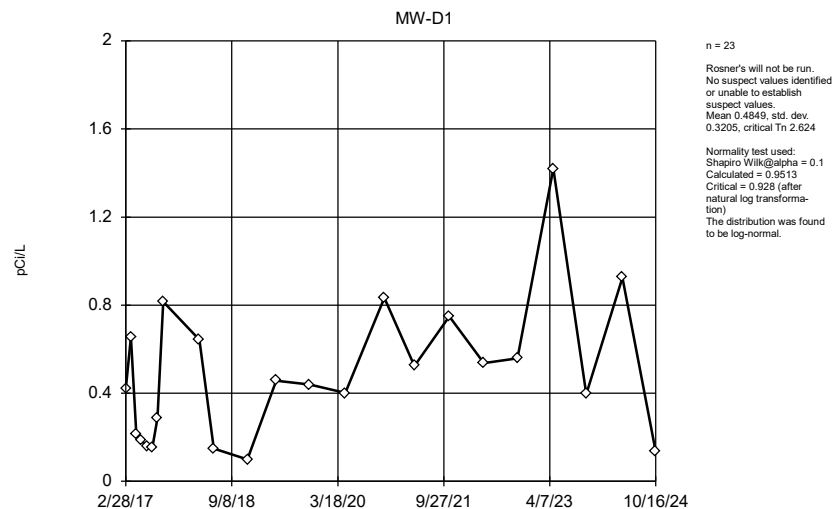




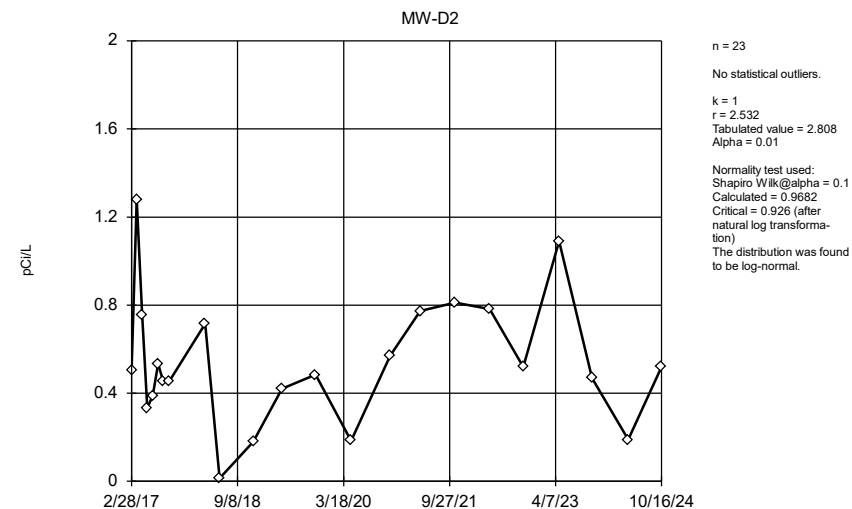




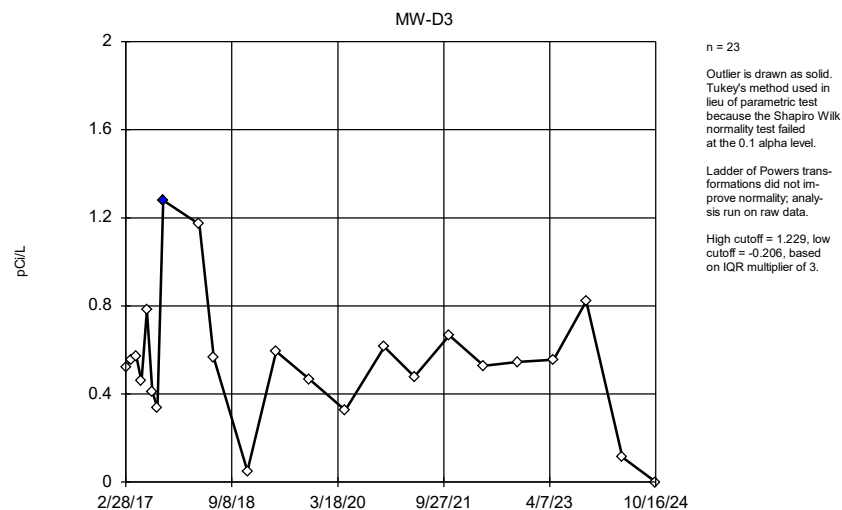
EPA Screening (suspected outliers for Rosner's Test)



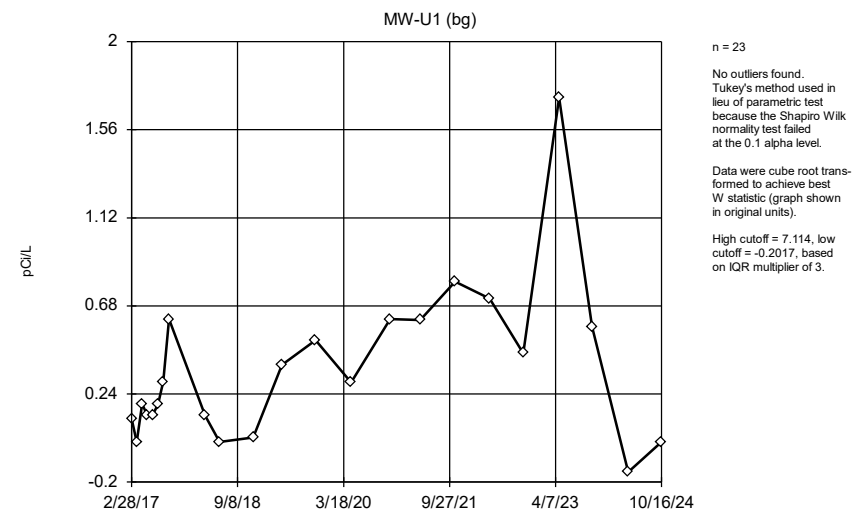
Rosner's Outlier Test



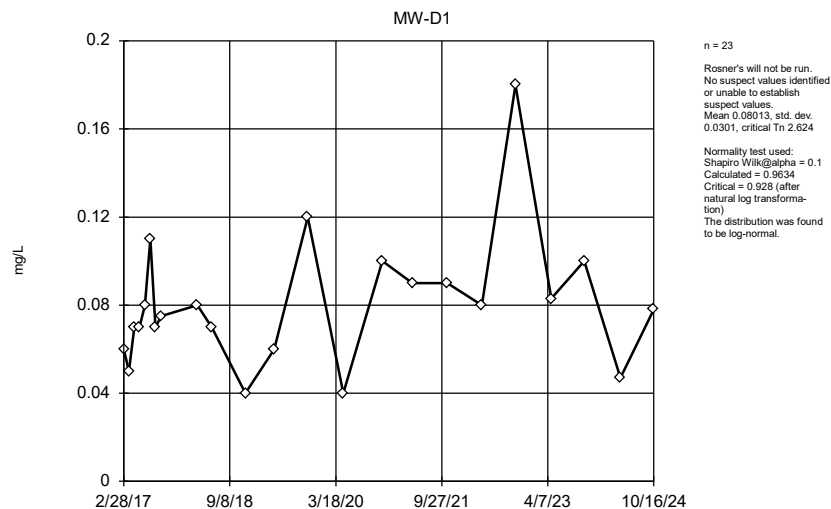
Tukey's Outlier Screening



Tukey's Outlier Screening



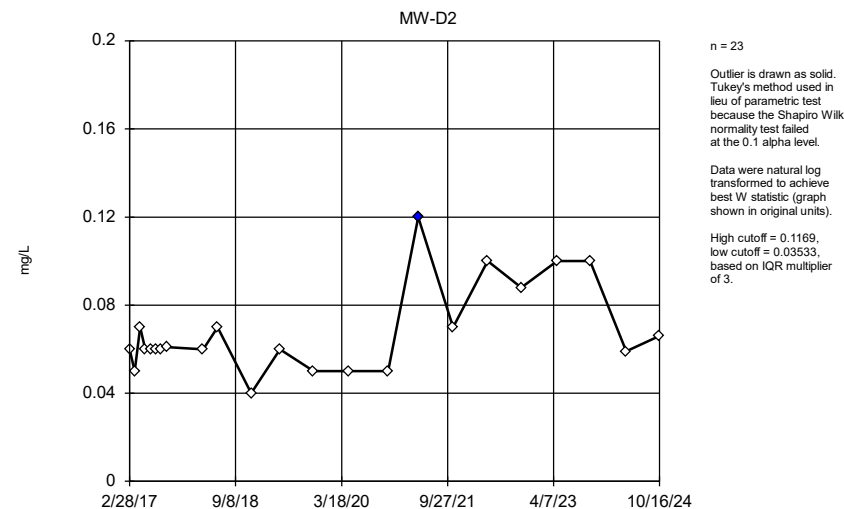
EPA Screening (suspected outliers for Rosner's Test)



Constituent: Fluoride Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

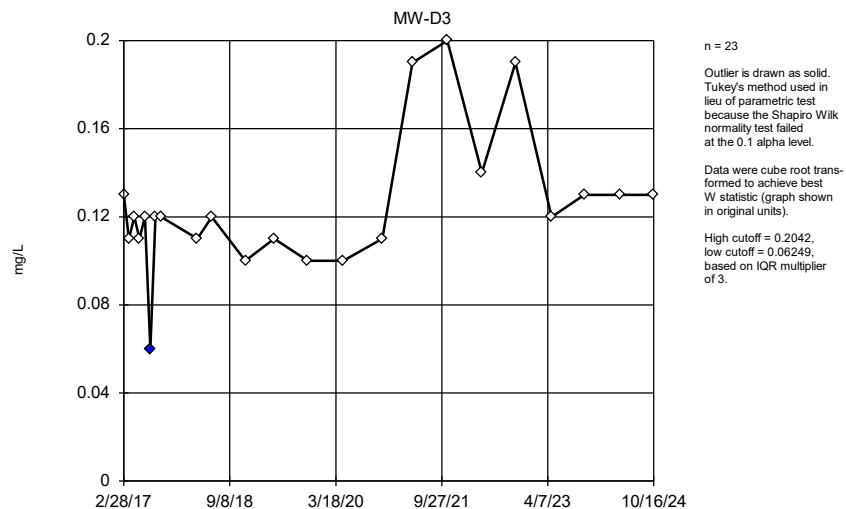
Tukey's Outlier Screening



Constituent: Fluoride Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

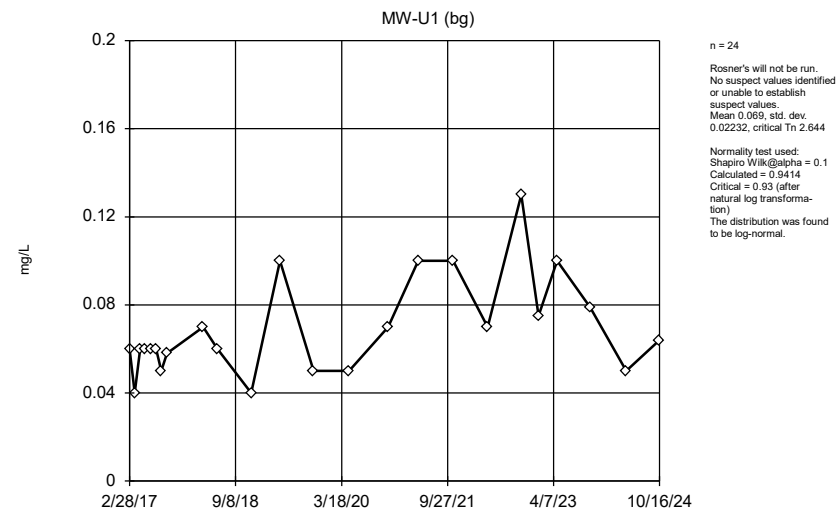
Tukey's Outlier Screening



Constituent: Fluoride Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

EPA Screening (suspected outliers for Rosner's Test)

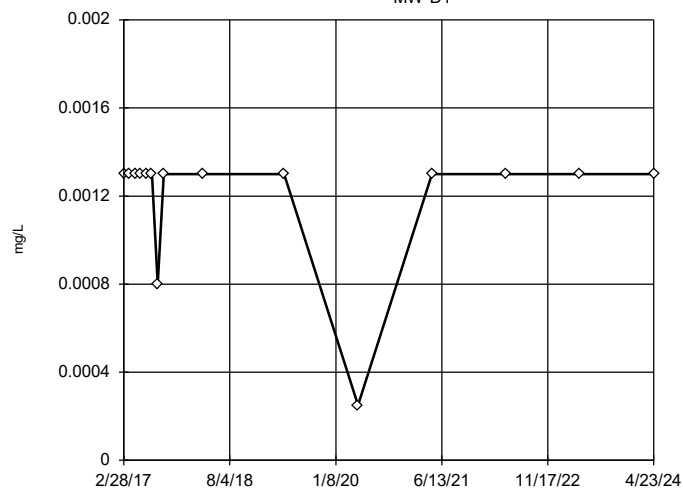


Constituent: Fluoride Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-D1



n = 15

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were square transformed to achieve best W statistic (graph shown in original units).

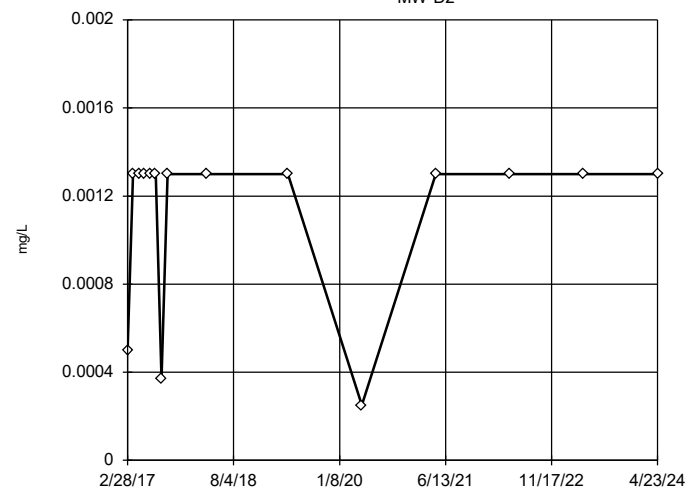
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-D2



n = 15

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

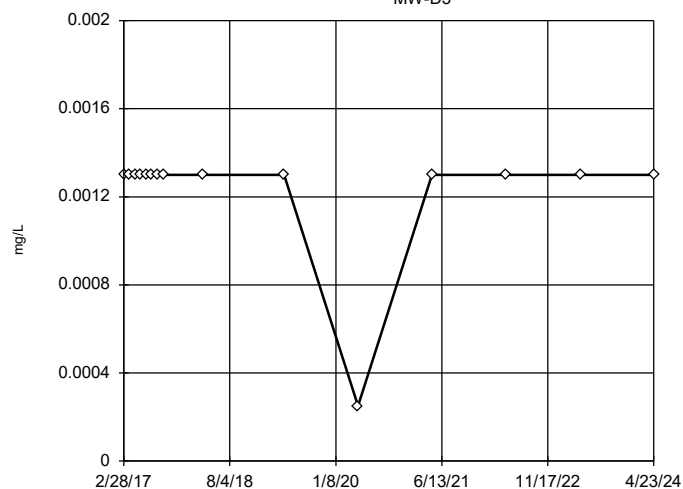
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-D3



n = 15

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were x⁶ transformed to achieve best W statistic (graph shown in original units).

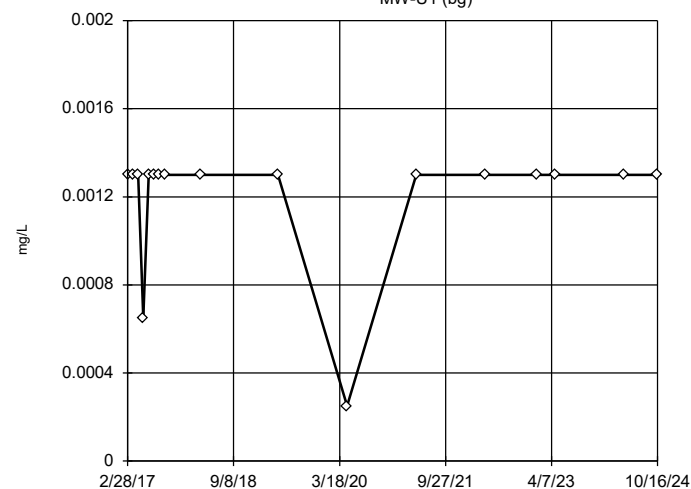
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-U1 (bg)



n = 17

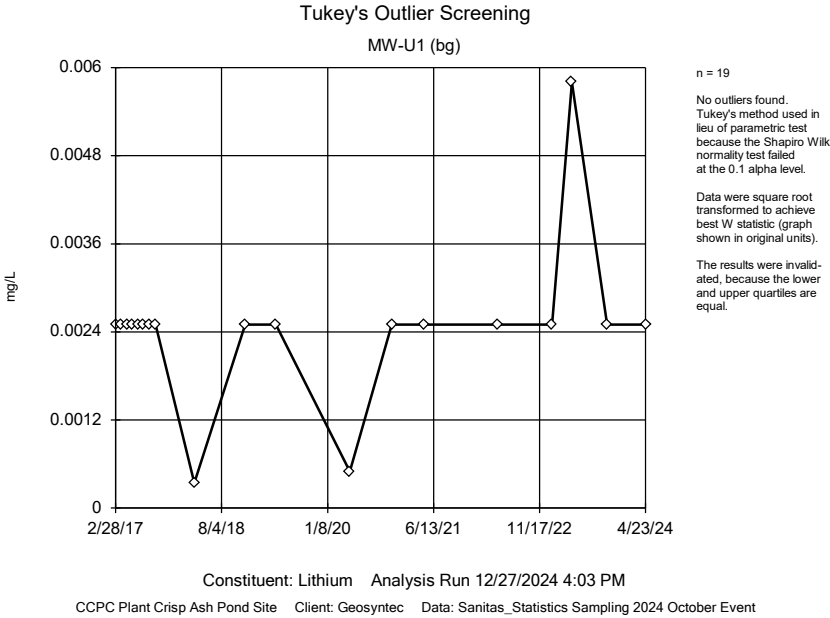
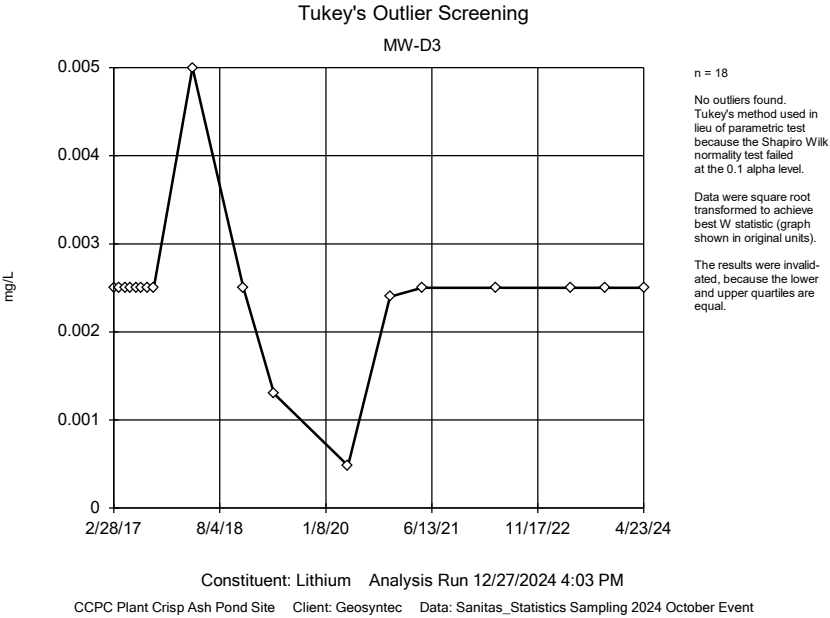
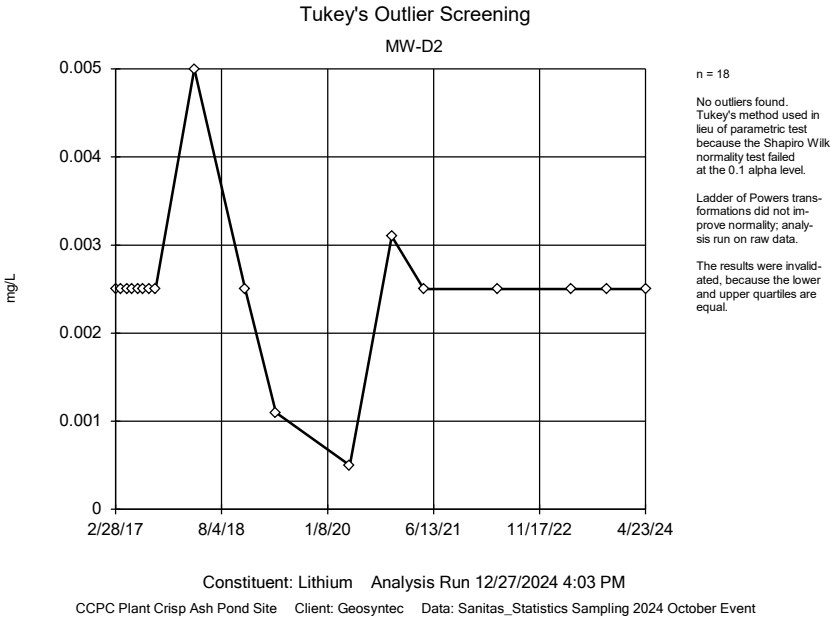
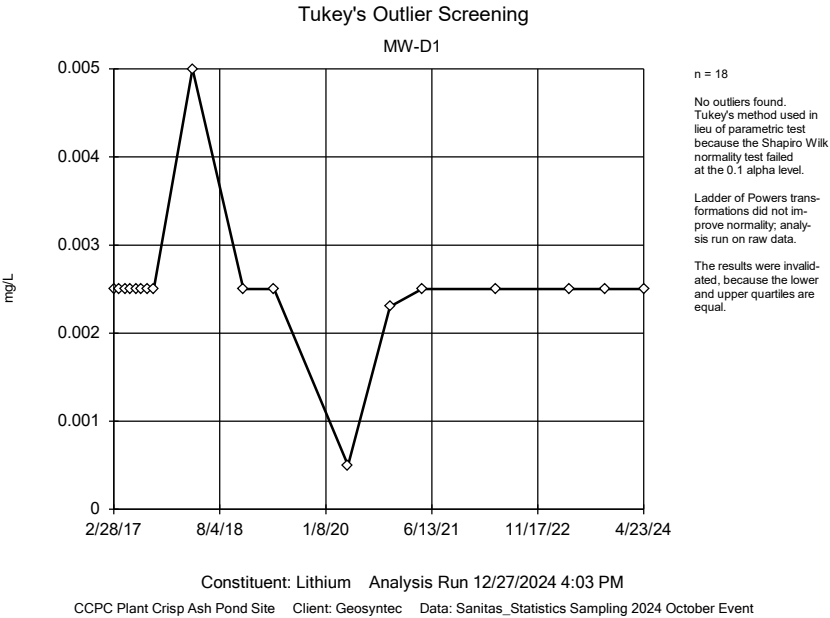
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

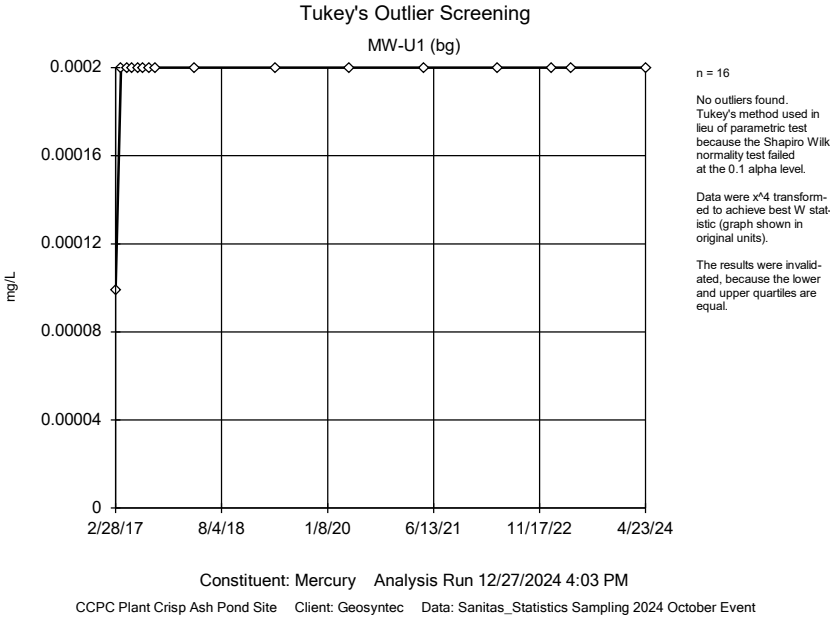
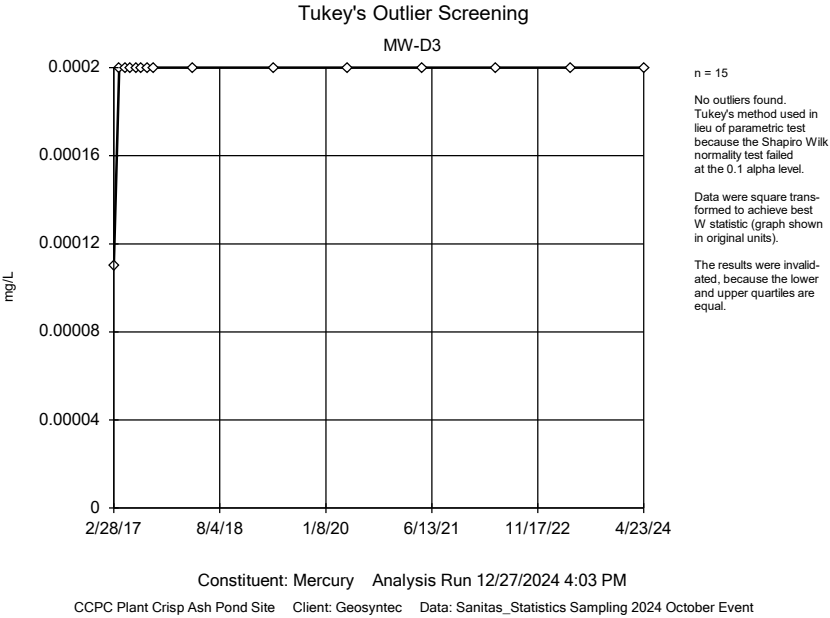
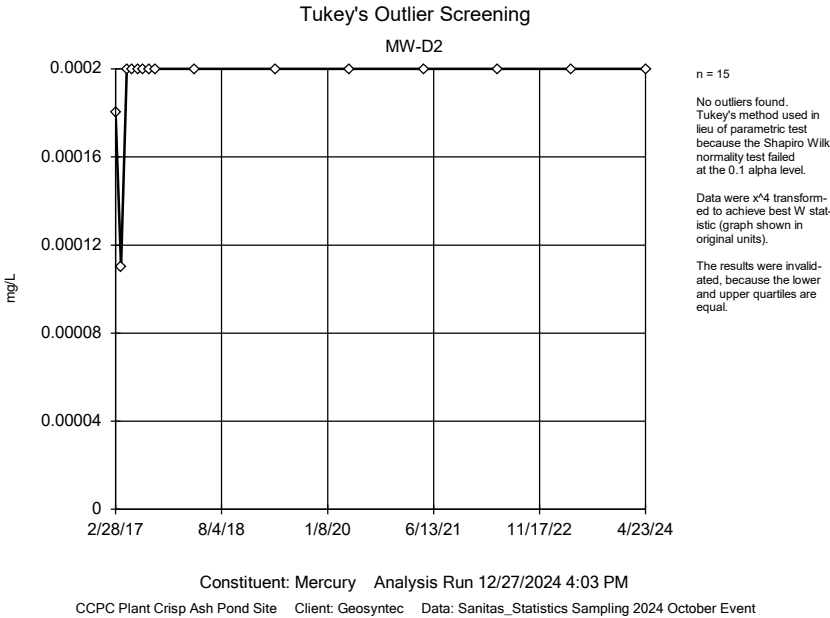
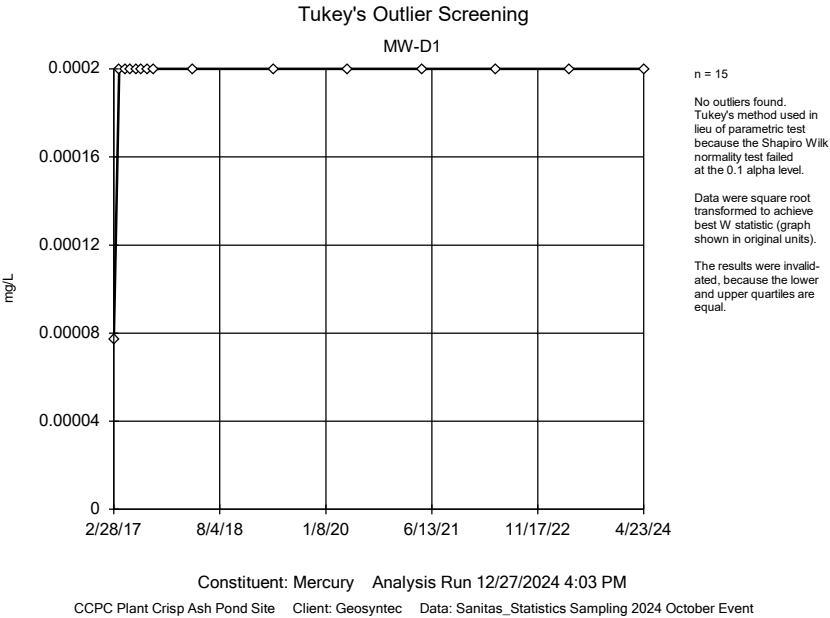
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/27/2024 4:03 PM

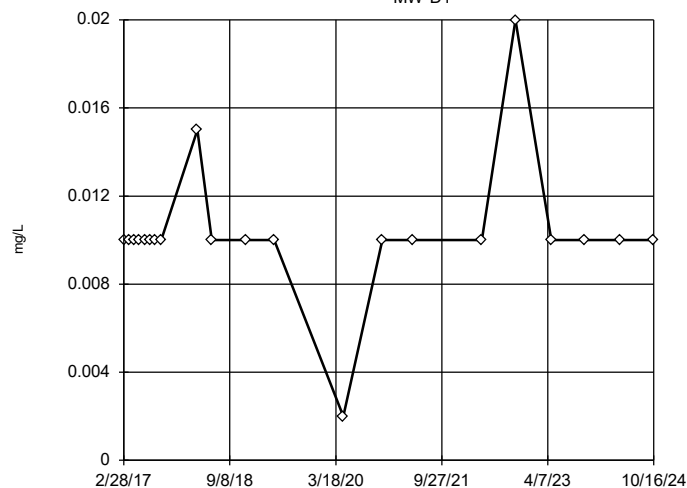
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event





Tukey's Outlier Screening

MW-D1



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

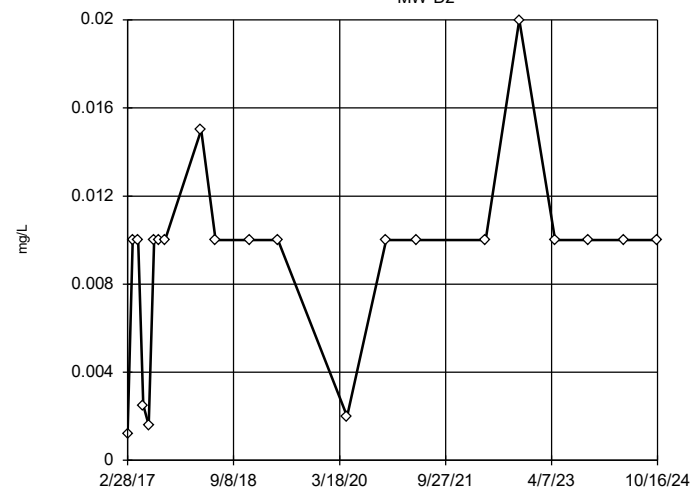
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-D2



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

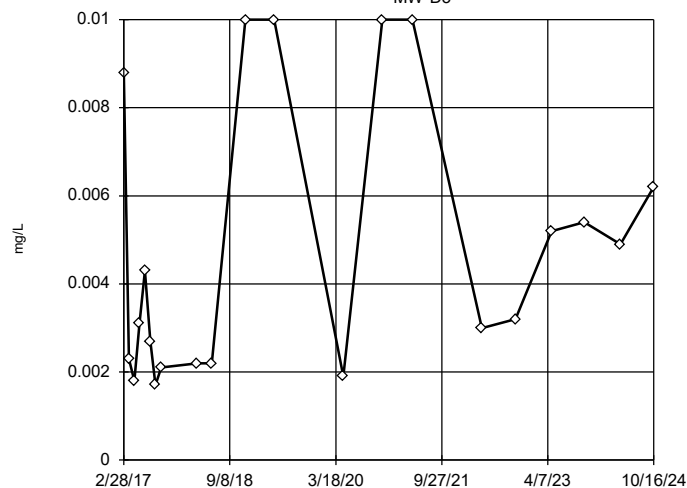
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-D3



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

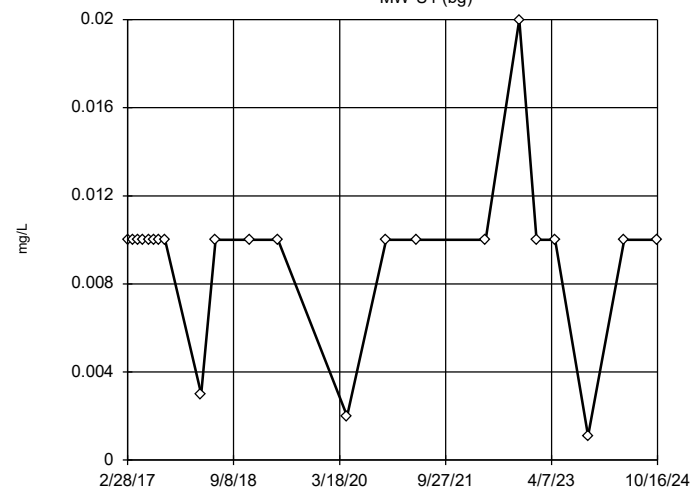
High cutoff = 0.2796,
low cutoff = 0.00005813,
based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tukey's Outlier Screening

MW-U1 (bg)



n = 22

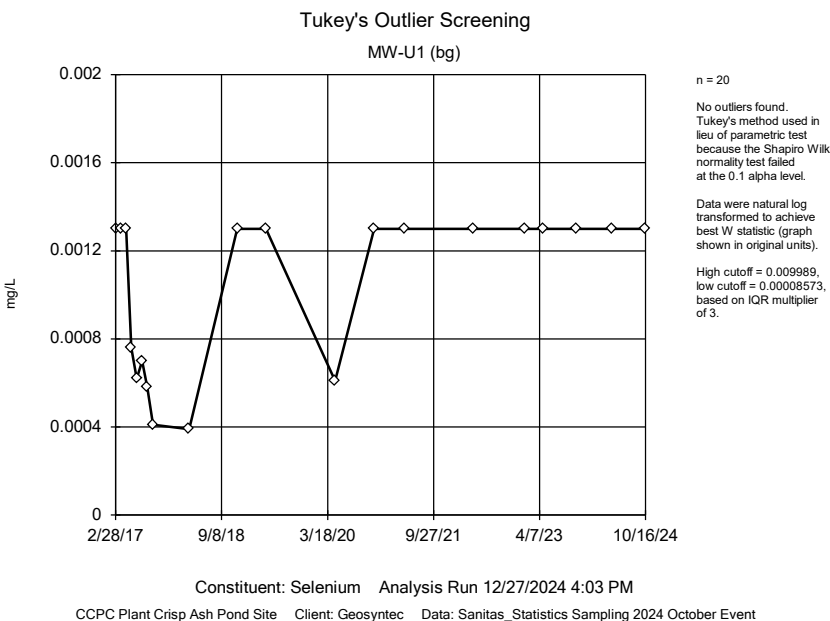
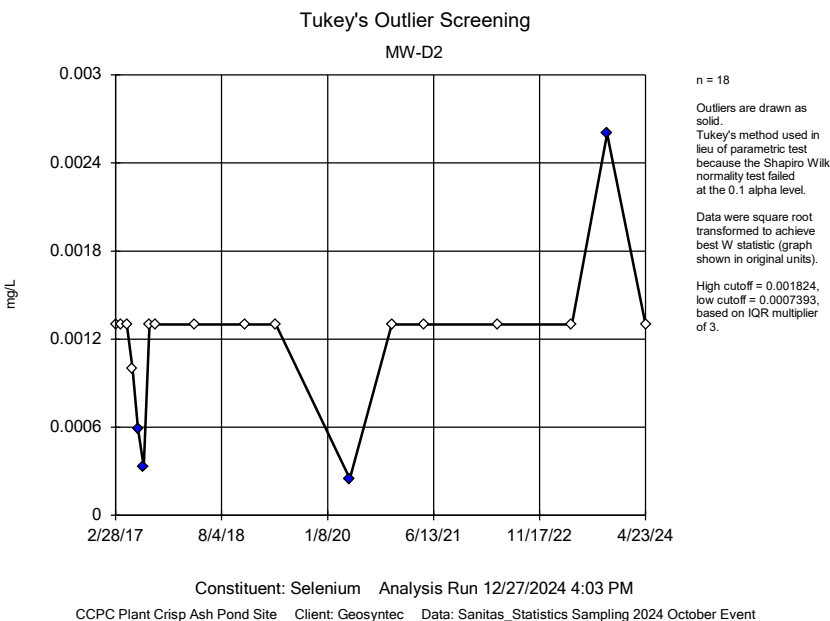
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

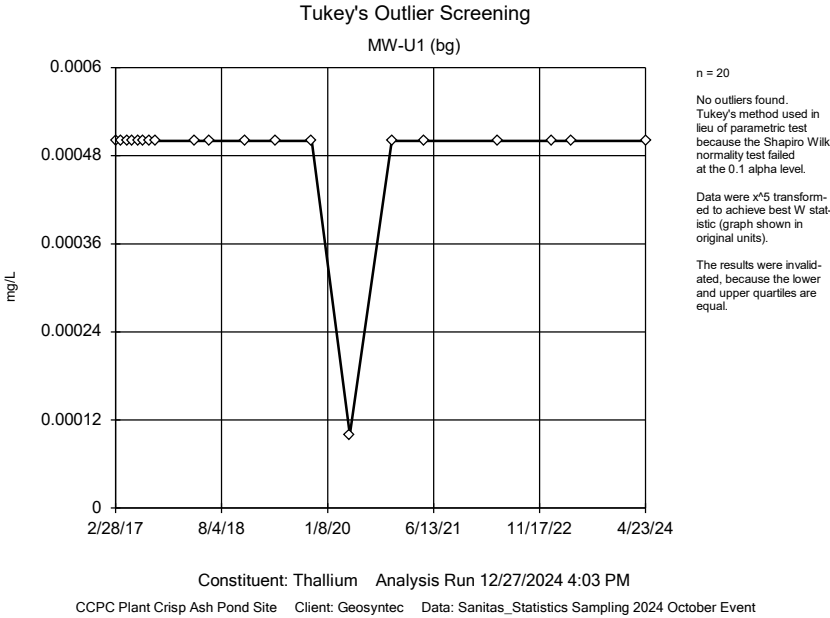
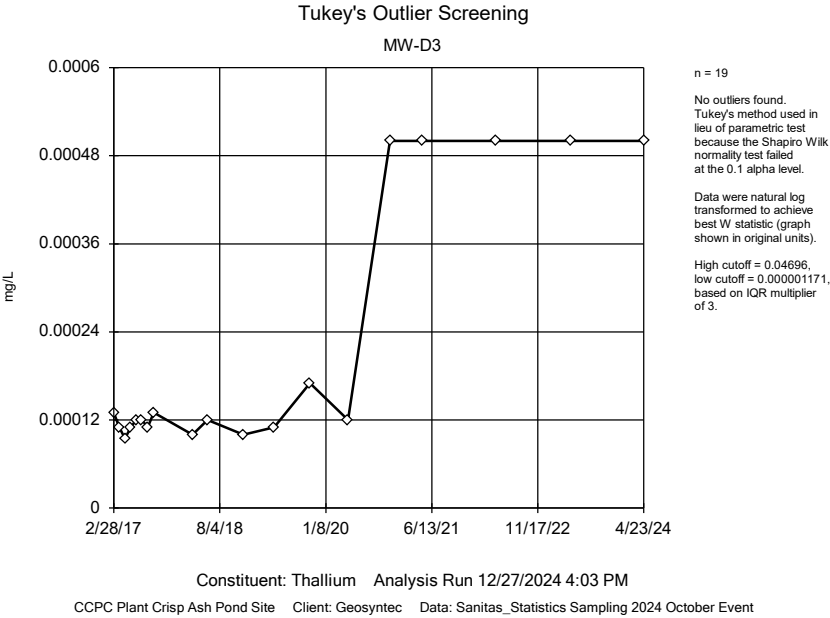
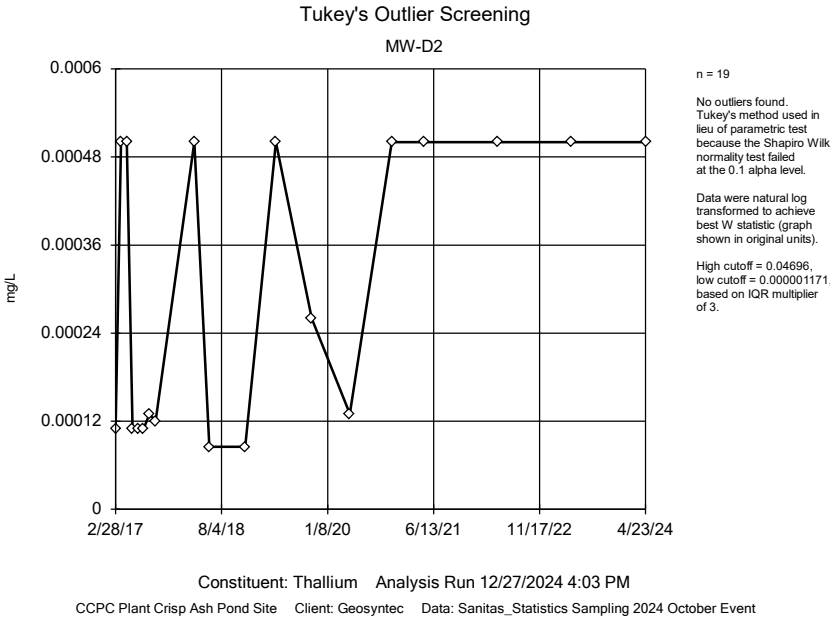
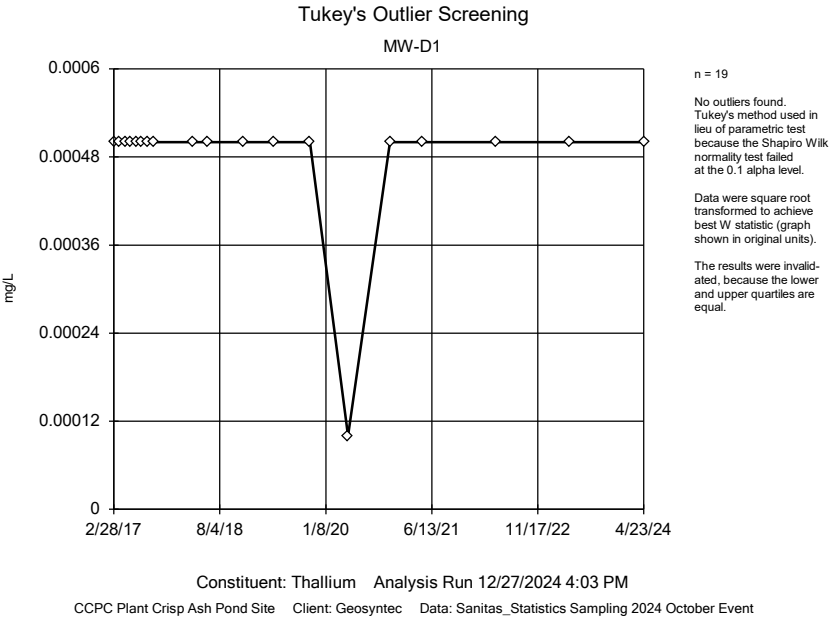
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/27/2024 4:03 PM

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event





Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event Printed 12/27/2024, 4:04 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)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	15	0.002367	0.0005164	unknown	ShapiroWilk
Antimony (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	15	0.002367	0.0005164	unknown	ShapiroWilk
Antimony (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	15	0.002367	0.0005164	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	17	0.002382	0.0004851	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	22	0.001307	0.0003479	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	22	0.001233	0.0004035	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D3	No	n/a	n/a	EPA 1989	0.05	22	0.00109	0.0004623	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.001292	0.0004171	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	EPA 1989	0.05	23	0.01467	0.004561	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	Rosner's	0.01	23	0.1433	0.0236	normal	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP (nrm)	NaN	23	0.1284	0.06521	unknown	ShapiroWilk
Barium (mg/L)	MW-U1 (bg)	Yes	0.0062	11/19/2020	NP (nrm)	NaN	24	0.002538	0.0009306	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	15	0.001927	0.0004415	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	15	0.001927	0.0004415	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	15	0.001927	0.0004415	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001931	0.000427	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001044	0.0004366	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001036	0.0004535	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001036	0.0004541	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	17	0.001041	0.0004229	unknown	ShapiroWilk
Chromium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	21	0.002486	0.000792	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	21	0.00241	0.0006008	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	21	0.002443	0.0005555	unknown	ShapiroWilk
Chromium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP (nrm)	NaN	22	0.001918	0.001105	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	20	0.002355	0.0004807	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	20	0.002323	0.00055	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D3	No	n/a	n/a	Dixon's	0.05	20	0.00149	0.0006749	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	22	0.002264	0.0006253	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D1	No	n/a	n/a	EPA 1989	0.05	23	0.4849	0.3205	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D2	No	n/a	n/a	Rosner's	0.01	23	0.5402	0.2922	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D3	Yes	1.28	9/13/2017	NP (nrm)	NaN	23	0.5394	0.2971	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP (nrm)	NaN	23	0.3634	0.3977	unknown	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	EPA 1989	0.05	23	0.08013	0.0301	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-D2	Yes	0.12	4/26/2021	NP (nrm)	NaN	23	0.068	0.02006	unknown	ShapiroWilk
Fluoride (mg/L)	MW-D3	Yes	0.06	7/17/2017	NP (nrm)	NaN	23	0.1248	0.03146	unknown	ShapiroWilk
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	EPA 1989	0.05	24	0.069	0.02232	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	15	0.001197	0.0002918	unknown	ShapiroWilk
Lead (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	15	0.001115	0.0003866	unknown	ShapiroWilk
Lead (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	15	0.00123	0.0002711	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	17	0.0012	0.000291	unknown	ShapiroWilk
Lithium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	18	0.002517	0.0007778	unknown	ShapiroWilk
Lithium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	18	0.002483	0.0008597	unknown	ShapiroWilk
Lithium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.002454	0.0008311	unknown	ShapiroWilk
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	19	0.002455	0.001041	unknown	ShapiroWilk
Mercury (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	15	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	15	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	15	0.000194	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	16	0.000...	0.0000...	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	21	0.01033	0.003055	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	21	0.009157	0.004349	unknown	ShapiroWilk

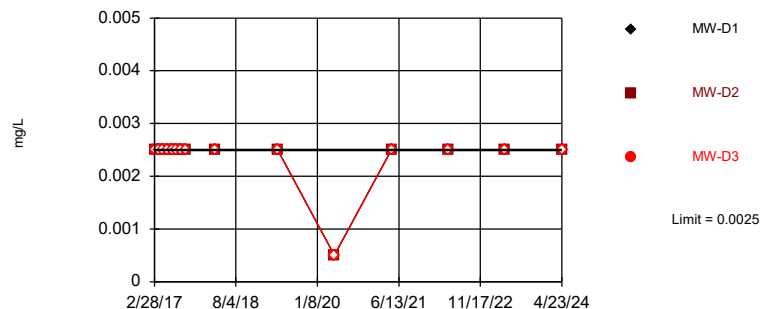
Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event Printed 12/27/2024, 4:04 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>
Molybdenum (mg/L)	MW-D3	No	n/a	n/a	NP (nrm)	NaN	21	0.00481	0.003115	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	22	0.009368	0.003674	unknown	ShapiroWilk
Selenium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	18	0.001167	0.0003393	unknown	ShapiroWilk
Selenium (mg/L)	MW-D2	Yes	0.00059,0...	6/19/2017...	NP (nrm)	NaN	18	0.001204	0.0004948	unknown	ShapiroWilk
Selenium (mg/L)	MW-D3	Yes	0.0028,0....	2/28/2017...	NP (nrm)	NaN	18	0.001279	0.0006516	unknown	ShapiroWilk
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP (nrm)	NaN	20	0.001049	0.0003601	unknown	ShapiroWilk
Thallium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	19	0.000...	0.0000...	unknown	ShapiroWilk
Thallium (mg/L)	MW-D2	No	n/a	n/a	NP (nrm)	NaN	19	0.000...	0.0001956	unknown	ShapiroWilk
Thallium (mg/L)	MW-D3	No	n/a	n/a	NP (nrm)	NaN	19	0.000...	0.0001738	unknown	ShapiroWilk
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	20	0.00048	0.0000...	unknown	ShapiroWilk

Within Limit

Tolerance Limit Interwell Non-parametric

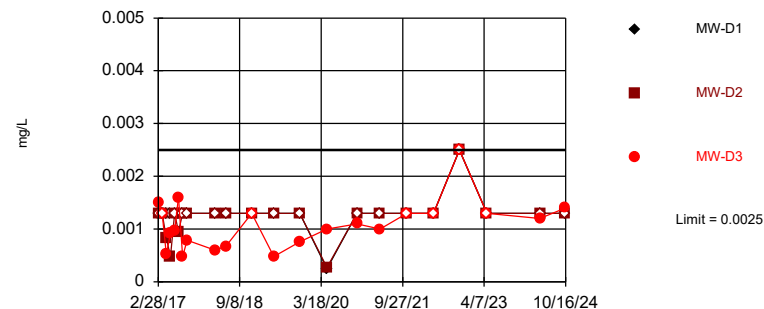


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 76.37% coverage at alpha=0.01; 83.79% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4181.

Constituent: Antimony Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit Interwell Non-parametric

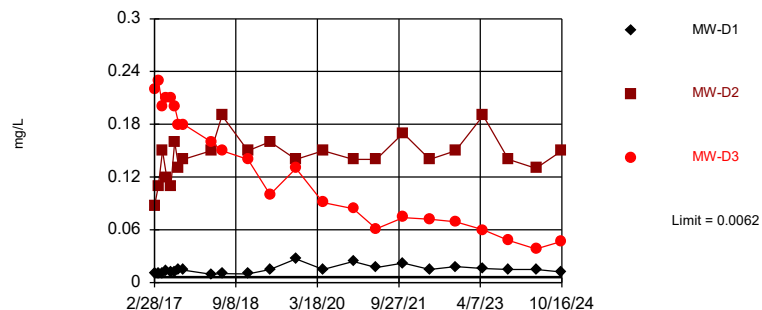


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 23 background values. 82.61% NDs. 81.84% coverage at alpha=0.01; 87.7% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.3074.

Constituent: Arsenic Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Exceeds Limit: MW-D1, MW-D2, MW-D3

Tolerance Limit Interwell Non-parametric

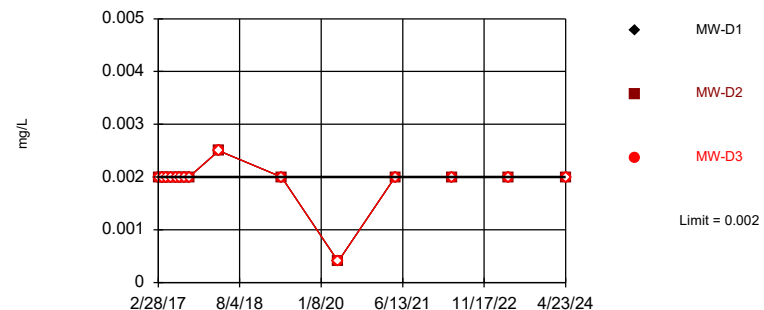


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 24 background values. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Barium Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit Interwell Non-parametric

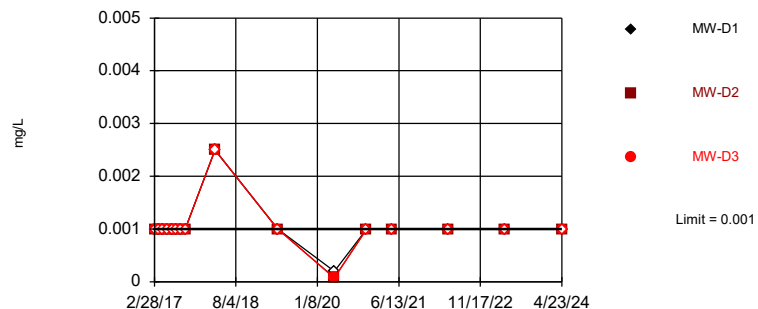


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 74.8% coverage at alpha=0.01; 83.01% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4401.

Constituent: Beryllium Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit Interwell Non-parametric

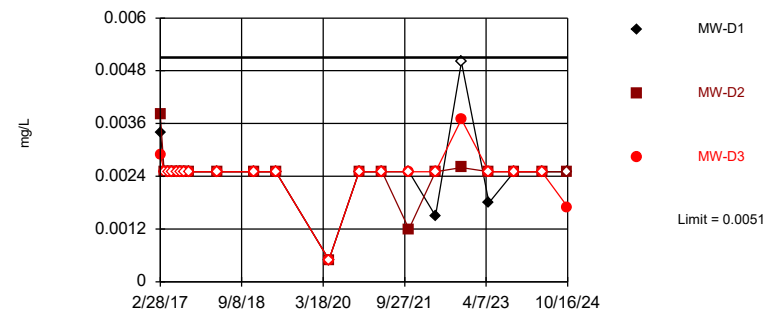


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 76.37% coverage at alpha=0.01; 83.79% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4181.

Constituent: Cadmium Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit Interwell Non-parametric

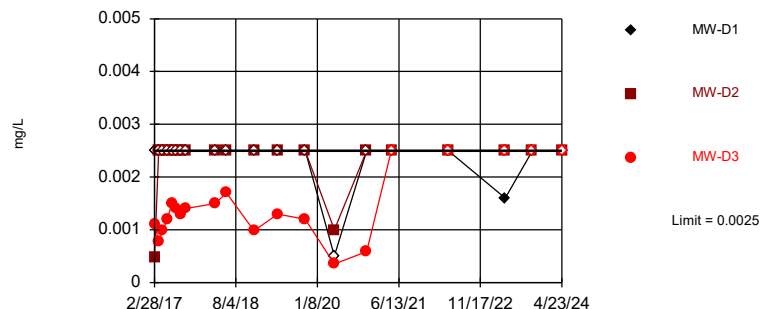


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 22 background values. 9.091% NDs. 81.05% coverage at alpha=0.01; 87.3% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.3235.

Constituent: Chromium Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit Interwell Non-parametric

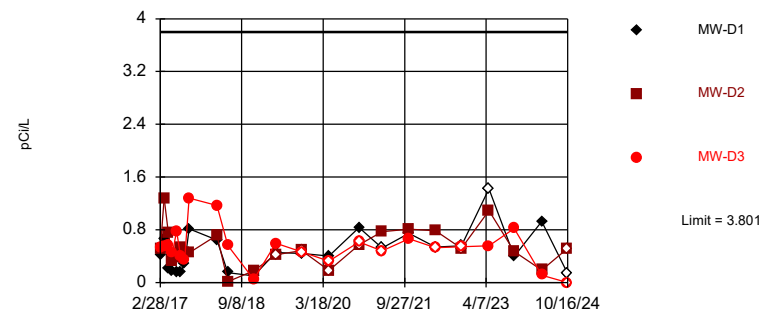


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 22 background values. 95.45% NDs. 81.05% coverage at alpha=0.01; 87.3% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.3235.

Constituent: Cobalt Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit Interwell Parametric



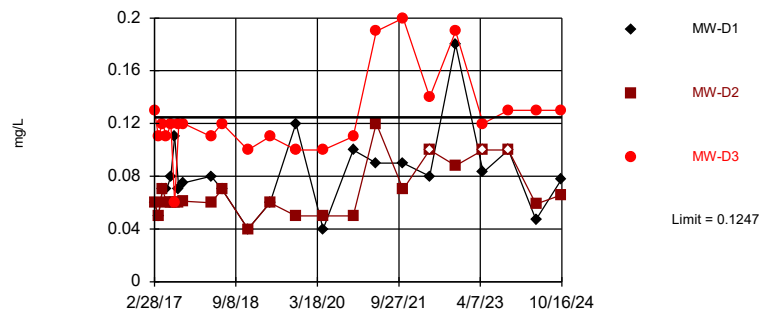
95% coverage. Most recent observation is compared with limit. Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.2927, Std. Dev.=0.5444, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8971, critical = 0.881. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Exceeds Limit: MW-D3

Tolerance Limit

Interwell Parametric

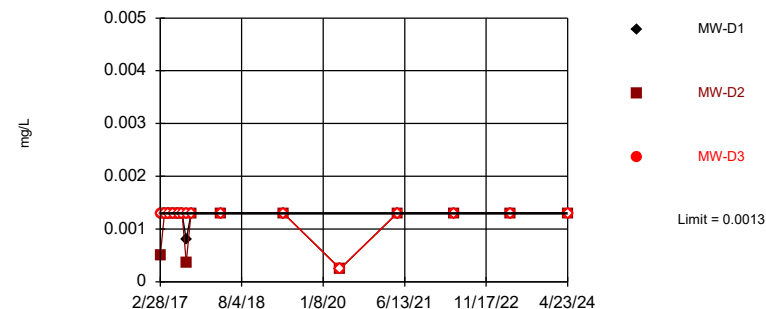


95% coverage. Most recent observation is compared with limit. Background Data Summary (based on square root transformation): Mean=0.2597, Std. Dev.=0.0405, n=24, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.884. Report alpha = 0.05.

Within Limit

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 17 background values. 94.12% NDs. 76.37% coverage at alpha=0.01; 83.79% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4181.

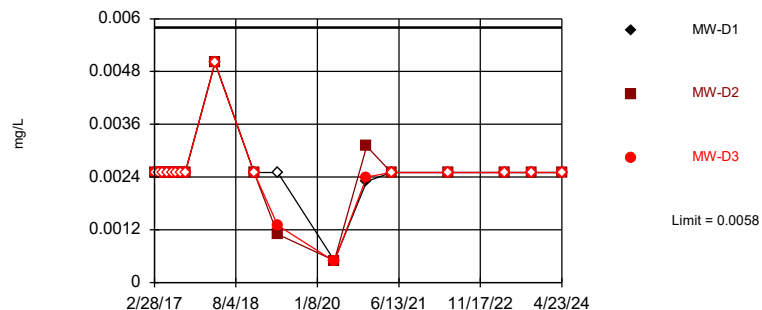
Constituent: Fluoride Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Constituent: Lead Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit

Interwell Non-parametric

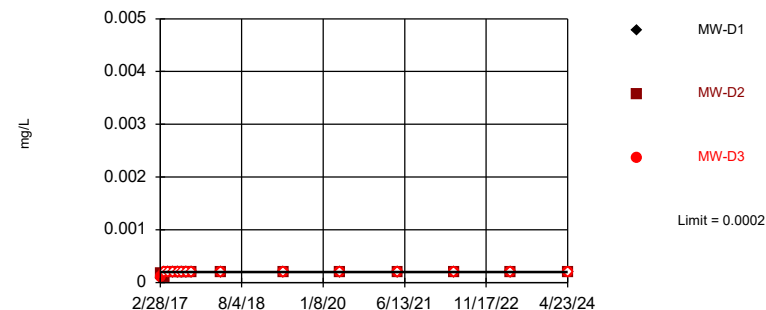


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 19 background values. 89.47% NDs. 78.32% coverage at alpha=0.01; 85.35% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3774.

Within Limit

Tolerance Limit

Interwell Non-parametric



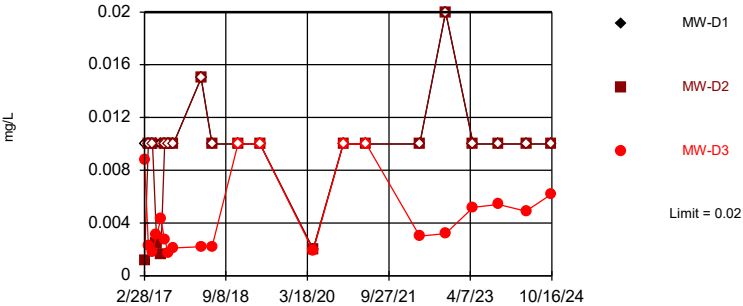
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 16 background values. 93.75% NDs. 74.8% coverage at alpha=0.01; 83.01% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4401.

Constituent: Lithium Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Constituent: Mercury Analysis Run 12/27/2024 4:07 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit
Interwell Non-parametric

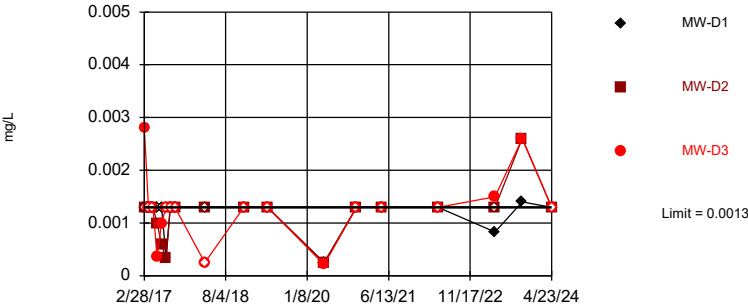


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 22 background values. 95.45% NDs. 81.05% coverage at alpha=0.01; 87.3% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.3235.

Constituent: Molybdenum Analysis Run 12/27/2024 4:08 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit
Interwell Non-parametric

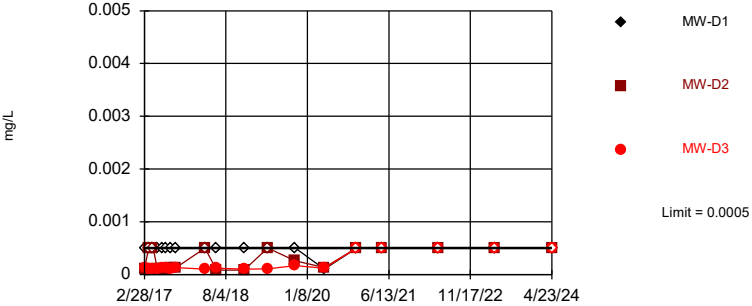


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 20 background values. 65% NDs. 79.49% coverage at alpha=0.01; 86.13% coverage at alpha=0.05; 96.68% coverage at alpha=0.5. Report alpha = 0.3585.

Constituent: Selenium Analysis Run 12/27/2024 4:08 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Within Limit

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 79.49% coverage at alpha=0.01; 86.13% coverage at alpha=0.05; 96.68% coverage at alpha=0.5. Report alpha = 0.3585.

Constituent: Thallium Analysis Run 12/27/2024 4:08 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Tolerance Limit

CCPC Plant Crisp Ash Pond Site

Client: Geosyntec

Data: Sanitas_Statistics Sampling 2024 October Event

Printed 12/27/2024, 4:10 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-D1	0.0025	4/23/2024	<0.0025	No	17	100	n/a	0.1651	NP Inter(NDs)
Antimony (mg/L)	MW-D2	0.0025	4/23/2024	<0.0025	No	17	100	n/a	0.1651	NP Inter(NDs)
Antimony (mg/L)	MW-D3	0.0025	4/23/2024	<0.0025	No	17	100	n/a	0.1651	NP Inter(NDs)
Arsenic (mg/L)	MW-D1	0.0025	10/16/2024	<0.0013	No	23	82.61	n/a	0.1152	NP Inter(NDs)
Arsenic (mg/L)	MW-D2	0.0025	10/16/2024	<0.0013	No	23	82.61	n/a	0.1152	NP Inter(NDs)
Arsenic (mg/L)	MW-D3	0.0025	10/16/2024	0.0014	No	23	82.61	n/a	0.1152	NP Inter(NDs)
Barium (mg/L)	MW-D1	0.0062	10/16/2024	0.012	Yes	24	0	n/a	0.1087	NP Inter(normal...
Barium (mg/L)	MW-D2	0.0062	10/16/2024	0.15	Yes	24	0	n/a	0.1087	NP Inter(normal...
Barium (mg/L)	MW-D3	0.0062	10/16/2024	0.047	Yes	24	0	n/a	0.1087	NP Inter(normal...
Beryllium (mg/L)	MW-D1	0.002	4/23/2024	<0.002	No	16	100	n/a	0.1758	NP Inter(NDs)
Beryllium (mg/L)	MW-D2	0.002	4/23/2024	<0.002	No	16	100	n/a	0.1758	NP Inter(NDs)
Beryllium (mg/L)	MW-D3	0.002	4/23/2024	<0.002	No	16	100	n/a	0.1758	NP Inter(NDs)
Cadmium (mg/L)	MW-D1	0.001	4/23/2024	<0.001	No	17	100	n/a	0.1651	NP Inter(NDs)
Cadmium (mg/L)	MW-D2	0.001	4/23/2024	<0.001	No	17	100	n/a	0.1651	NP Inter(NDs)
Cadmium (mg/L)	MW-D3	0.001	4/23/2024	<0.001	No	17	100	n/a	0.1651	NP Inter(NDs)
Chromium (mg/L)	MW-D1	0.0051	10/16/2024	<0.0025	No	22	9.091	n/a	0.1222	NP Inter(normal...
Chromium (mg/L)	MW-D2	0.0051	10/16/2024	<0.0025	No	22	9.091	n/a	0.1222	NP Inter(normal...
Chromium (mg/L)	MW-D3	0.0051	10/16/2024	0.0017	No	22	9.091	n/a	0.1222	NP Inter(normal...
Cobalt (mg/L)	MW-D1	0.0025	4/23/2024	<0.0025	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Cobalt (mg/L)	MW-D2	0.0025	4/23/2024	<0.0025	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Cobalt (mg/L)	MW-D3	0.0025	4/23/2024	<0.0025	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	MW-D1	3.801	10/16/2024	<0.135	No	23	30.43	x^(1/3)	0.01695	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D2	3.801	10/16/2024	<0.519	No	23	30.43	x^(1/3)	0.01695	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D3	3.801	10/16/2024	<0	No	23	30.43	x^(1/3)	0.01695	Inter
Fluoride (mg/L)	MW-D1	0.1247	10/16/2024	0.078	No	24	12.5	sqrt(x)	0.01695	Inter
Fluoride (mg/L)	MW-D2	0.1247	10/16/2024	0.066	No	24	12.5	sqrt(x)	0.01695	Inter
Fluoride (mg/L)	MW-D3	0.1247	10/16/2024	0.13	Yes	24	12.5	sqrt(x)	0.01695	Inter
Lead (mg/L)	MW-D1	0.0013	4/23/2024	<0.0013	No	17	94.12	n/a	0.1651	NP Inter(NDs)
Lead (mg/L)	MW-D2	0.0013	4/23/2024	<0.0013	No	17	94.12	n/a	0.1651	NP Inter(NDs)
Lead (mg/L)	MW-D3	0.0013	4/23/2024	<0.0013	No	17	94.12	n/a	0.1651	NP Inter(NDs)
Lithium (mg/L)	MW-D1	0.0058	4/23/2024	<0.0025	No	19	89.47	n/a	0.1461	NP Inter(NDs)
Lithium (mg/L)	MW-D2	0.0058	4/23/2024	<0.0025	No	19	89.47	n/a	0.1461	NP Inter(NDs)
Lithium (mg/L)	MW-D3	0.0058	4/23/2024	<0.0025	No	19	89.47	n/a	0.1461	NP Inter(NDs)
Mercury (mg/L)	MW-D1	0.0002	4/23/2024	<0.0002	No	16	93.75	n/a	0.1758	NP Inter(NDs)
Mercury (mg/L)	MW-D2	0.0002	4/23/2024	<0.0002	No	16	93.75	n/a	0.1758	NP Inter(NDs)
Mercury (mg/L)	MW-D3	0.0002	4/23/2024	<0.0002	No	16	93.75	n/a	0.1758	NP Inter(NDs)
Molybdenum (mg/L)	MW-D1	0.02	10/16/2024	<0.01	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Molybdenum (mg/L)	MW-D2	0.02	10/16/2024	<0.01	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Molybdenum (mg/L)	MW-D3	0.02	10/16/2024	0.0062	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Selenium (mg/L)	MW-D1	0.0013	4/23/2024	<0.0013	No	20	65	n/a	0.1375	NP Inter(normal...
Selenium (mg/L)	MW-D2	0.0013	4/23/2024	<0.0013	No	20	65	n/a	0.1375	NP Inter(normal...
Selenium (mg/L)	MW-D3	0.0013	4/23/2024	<0.0013	No	20	65	n/a	0.1375	NP Inter(normal...
Thallium (mg/L)	MW-D1	0.0005	4/23/2024	<0.0005	No	20	100	n/a	0.1375	NP Inter(NDs)
Thallium (mg/L)	MW-D2	0.0005	4/23/2024	<0.0005	No	20	100	n/a	0.1375	NP Inter(NDs)
Thallium (mg/L)	MW-D3	0.0005	4/23/2024	<0.0005	No	20	100	n/a	0.1375	NP Inter(NDs)

Tolerance Limit

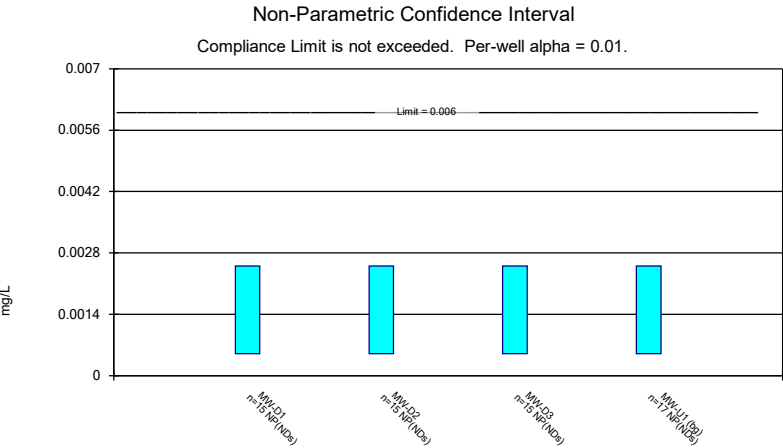
CCPC Plant Crisp Ash Pond Site

Client: Geosyntec

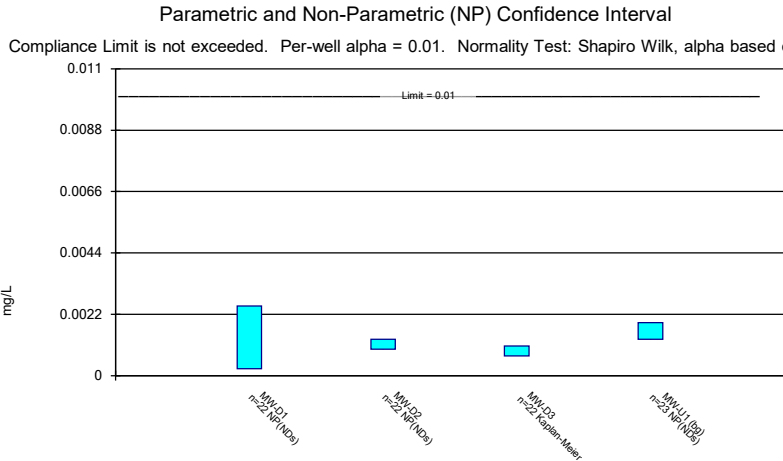
Data: Sanitas_Statistics Sampling 2024 October Event

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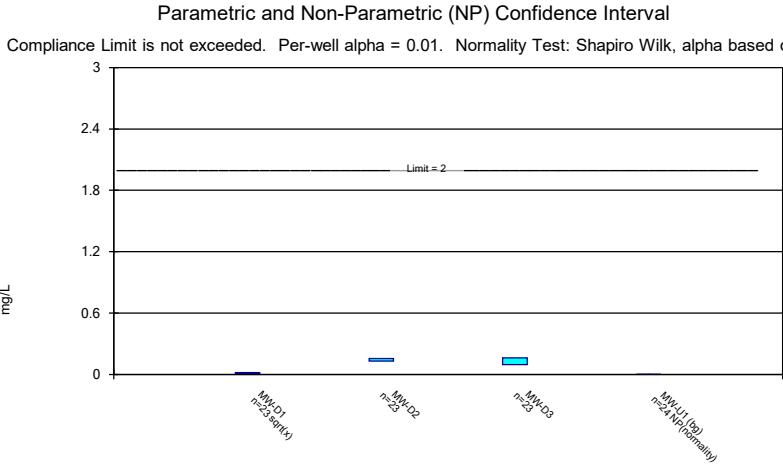
<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-D1	0.0025	4/23/2024	<0.0025	No	17	100	n/a	0.1651	NP Inter(NDs)
Antimony (mg/L)	MW-D2	0.0025	4/23/2024	<0.0025	No	17	100	n/a	0.1651	NP Inter(NDs)
Antimony (mg/L)	MW-D3	0.0025	4/23/2024	<0.0025	No	17	100	n/a	0.1651	NP Inter(NDs)
Arsenic (mg/L)	MW-D1	0.0025	10/16/2024	<0.0013	No	23	82.61	n/a	0.1152	NP Inter(NDs)
Arsenic (mg/L)	MW-D2	0.0025	10/16/2024	<0.0013	No	23	82.61	n/a	0.1152	NP Inter(NDs)
Arsenic (mg/L)	MW-D3	0.0025	10/16/2024	0.0014	No	23	82.61	n/a	0.1152	NP Inter(NDs)
Barium (mg/L)	MW-D1	0.0062	10/16/2024	0.012	Yes	24	0	n/a	0.1087	NP Inter(normal...
Barium (mg/L)	MW-D2	0.0062	10/16/2024	0.15	Yes	24	0	n/a	0.1087	NP Inter(normal...
Barium (mg/L)	MW-D3	0.0062	10/16/2024	0.047	Yes	24	0	n/a	0.1087	NP Inter(normal...
Beryllium (mg/L)	MW-D1	0.002	4/23/2024	<0.002	No	16	100	n/a	0.1758	NP Inter(NDs)
Beryllium (mg/L)	MW-D2	0.002	4/23/2024	<0.002	No	16	100	n/a	0.1758	NP Inter(NDs)
Beryllium (mg/L)	MW-D3	0.002	4/23/2024	<0.002	No	16	100	n/a	0.1758	NP Inter(NDs)
Cadmium (mg/L)	MW-D1	0.001	4/23/2024	<0.001	No	17	100	n/a	0.1651	NP Inter(NDs)
Cadmium (mg/L)	MW-D2	0.001	4/23/2024	<0.001	No	17	100	n/a	0.1651	NP Inter(NDs)
Cadmium (mg/L)	MW-D3	0.001	4/23/2024	<0.001	No	17	100	n/a	0.1651	NP Inter(NDs)
Chromium (mg/L)	MW-D1	0.0051	10/16/2024	<0.0025	No	22	9.091	n/a	0.1222	NP Inter(normal...
Chromium (mg/L)	MW-D2	0.0051	10/16/2024	<0.0025	No	22	9.091	n/a	0.1222	NP Inter(normal...
Chromium (mg/L)	MW-D3	0.0051	10/16/2024	0.0017	No	22	9.091	n/a	0.1222	NP Inter(normal...
Cobalt (mg/L)	MW-D1	0.0025	4/23/2024	<0.0025	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Cobalt (mg/L)	MW-D2	0.0025	4/23/2024	<0.0025	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Cobalt (mg/L)	MW-D3	0.0025	4/23/2024	<0.0025	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	MW-D1	3.801	10/16/2024	<0.135	No	23	30.43	x^(1/3)	0.01695	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D2	3.801	10/16/2024	<0.519	No	23	30.43	x^(1/3)	0.01695	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D3	3.801	10/16/2024	<0	No	23	30.43	x^(1/3)	0.01695	Inter
Fluoride (mg/L)	MW-D1	0.1247	10/16/2024	0.078	No	24	12.5	sqrt(x)	0.01695	Inter
Fluoride (mg/L)	MW-D2	0.1247	10/16/2024	0.066	No	24	12.5	sqrt(x)	0.01695	Inter
Fluoride (mg/L)	MW-D3	0.1247	10/16/2024	0.13	Yes	24	12.5	sqrt(x)	0.01695	Inter
Lead (mg/L)	MW-D1	0.0013	4/23/2024	<0.0013	No	17	94.12	n/a	0.1651	NP Inter(NDs)
Lead (mg/L)	MW-D2	0.0013	4/23/2024	<0.0013	No	17	94.12	n/a	0.1651	NP Inter(NDs)
Lead (mg/L)	MW-D3	0.0013	4/23/2024	<0.0013	No	17	94.12	n/a	0.1651	NP Inter(NDs)
Lithium (mg/L)	MW-D1	0.0058	4/23/2024	<0.0025	No	19	89.47	n/a	0.1461	NP Inter(NDs)
Lithium (mg/L)	MW-D2	0.0058	4/23/2024	<0.0025	No	19	89.47	n/a	0.1461	NP Inter(NDs)
Lithium (mg/L)	MW-D3	0.0058	4/23/2024	<0.0025	No	19	89.47	n/a	0.1461	NP Inter(NDs)
Mercury (mg/L)	MW-D1	0.0002	4/23/2024	<0.0002	No	16	93.75	n/a	0.1758	NP Inter(NDs)
Mercury (mg/L)	MW-D2	0.0002	4/23/2024	<0.0002	No	16	93.75	n/a	0.1758	NP Inter(NDs)
Mercury (mg/L)	MW-D3	0.0002	4/23/2024	<0.0002	No	16	93.75	n/a	0.1758	NP Inter(NDs)
Molybdenum (mg/L)	MW-D1	0.02	10/16/2024	<0.01	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Molybdenum (mg/L)	MW-D2	0.02	10/16/2024	<0.01	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Molybdenum (mg/L)	MW-D3	0.02	10/16/2024	0.0062	No	22	95.45	n/a	0.1222	NP Inter(NDs)
Selenium (mg/L)	MW-D1	0.0013	4/23/2024	<0.0013	No	20	65	n/a	0.1375	NP Inter(normal...
Selenium (mg/L)	MW-D2	0.0013	4/23/2024	<0.0013	No	20	65	n/a	0.1375	NP Inter(normal...
Selenium (mg/L)	MW-D3	0.0013	4/23/2024	<0.0013	No	20	65	n/a	0.1375	NP Inter(normal...
Thallium (mg/L)	MW-D1	0.0005	4/23/2024	<0.0005	No	20	100	n/a	0.1375	NP Inter(NDs)
Thallium (mg/L)	MW-D2	0.0005	4/23/2024	<0.0005	No	20	100	n/a	0.1375	NP Inter(NDs)
Thallium (mg/L)	MW-D3	0.0005	4/23/2024	<0.0005	No	20	100	n/a	0.1375	NP Inter(NDs)



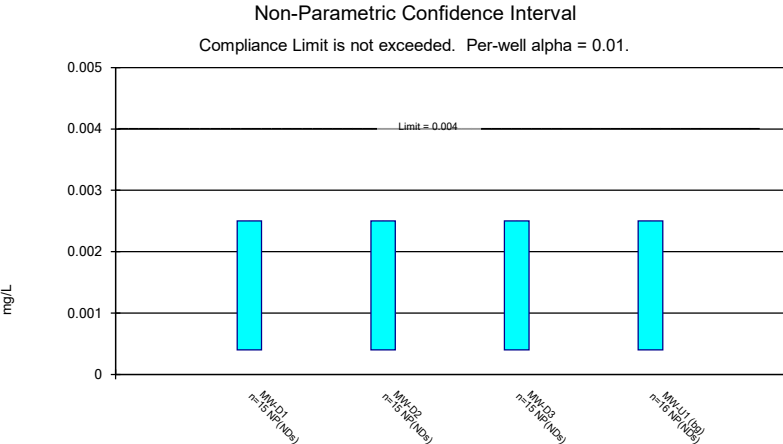
Constituent: Antimony Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



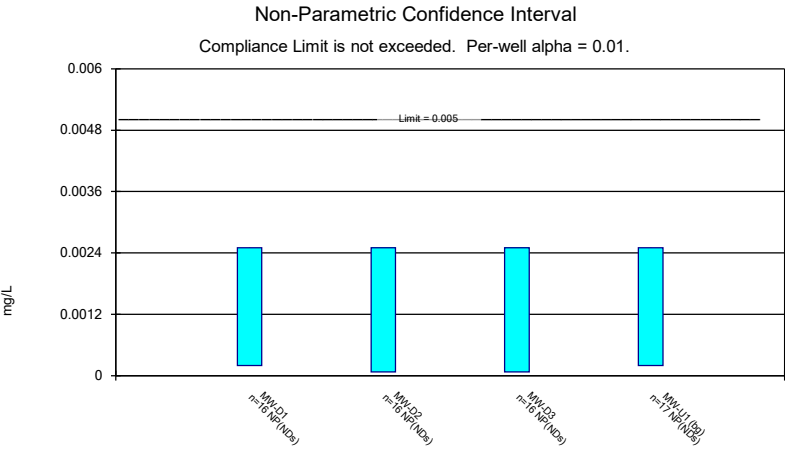
Constituent: Arsenic Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



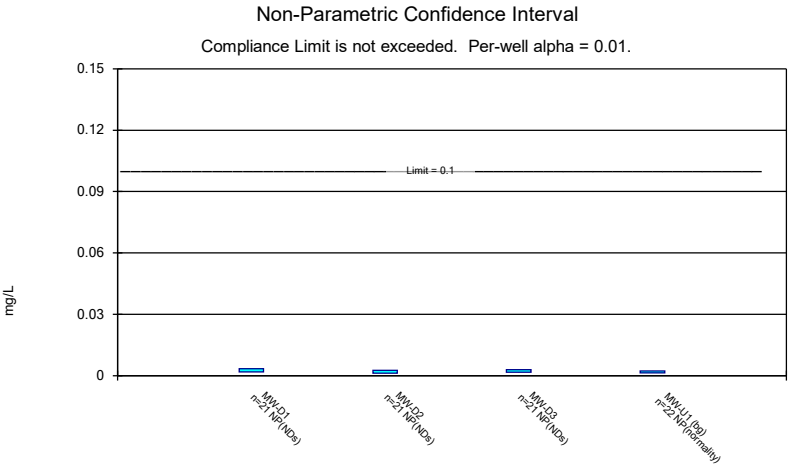
Constituent: Barium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



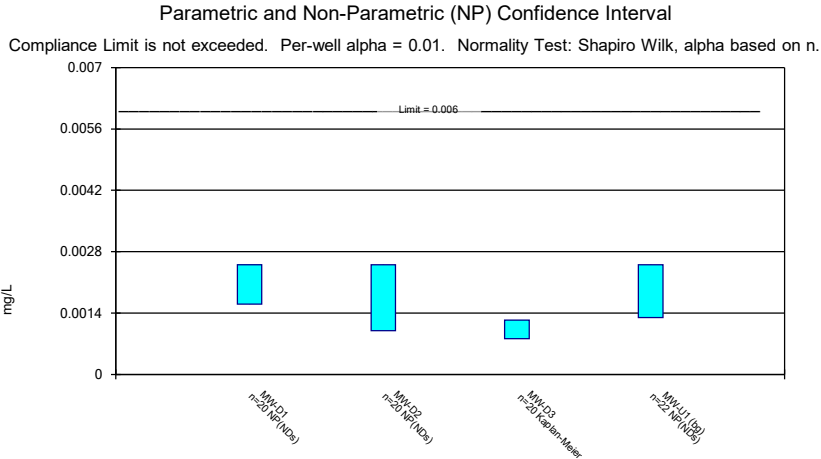
Constituent: Beryllium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



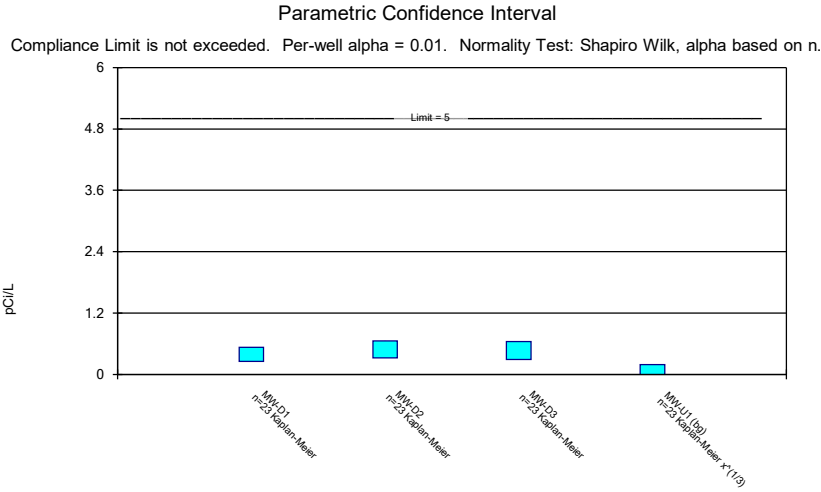
Constituent: Cadmium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



Constituent: Chromium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



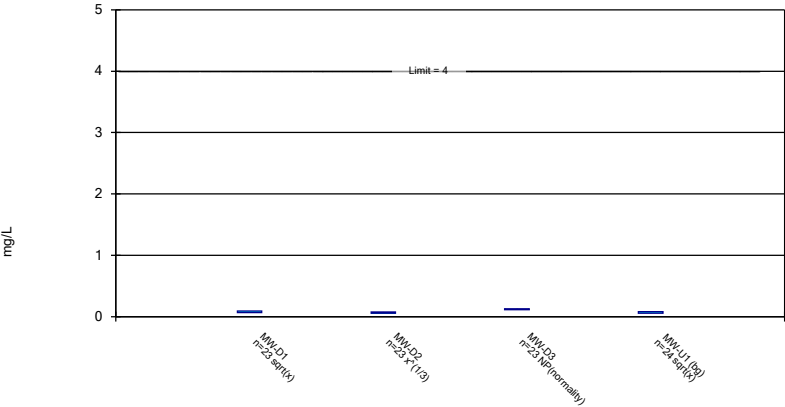
Constituent: Cobalt Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event



Constituent: Combined Radium 226 + 228 Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Parametric and Non-Parametric (NP) Confidence Interval

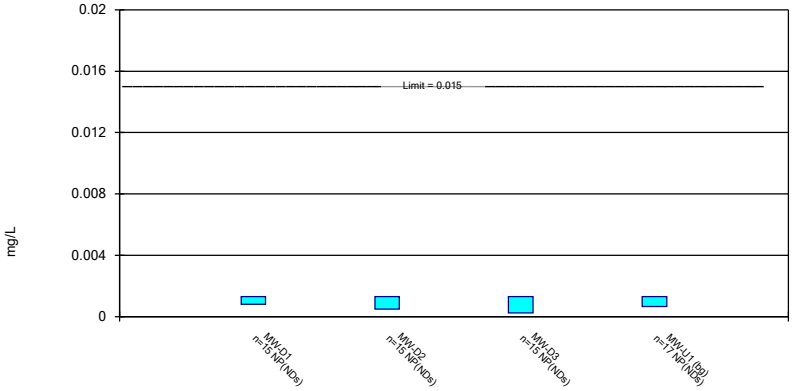
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Non-Parametric Confidence Interval

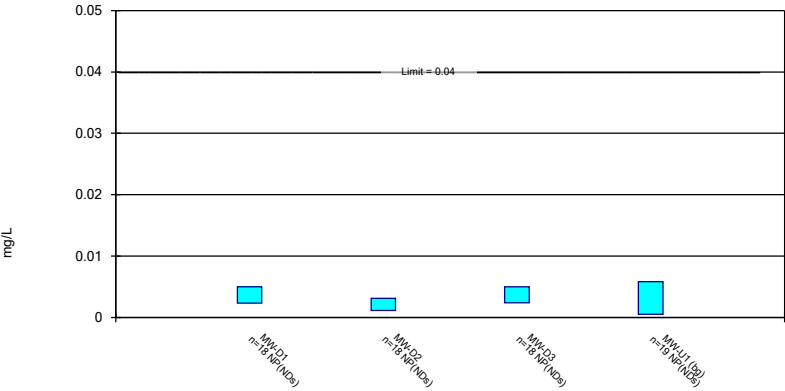
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Non-Parametric Confidence Interval

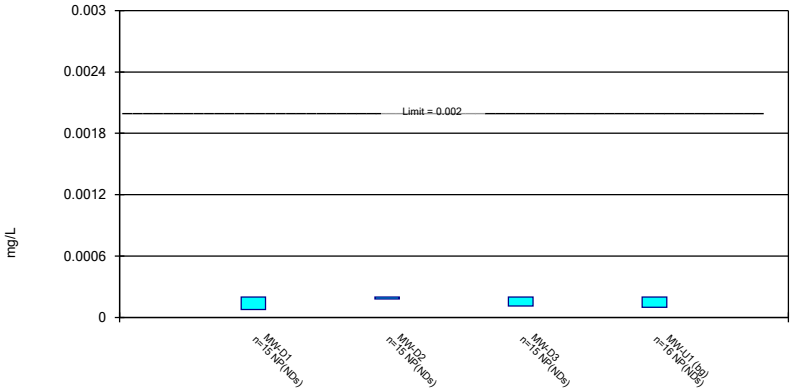
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Constituent: Lithium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Non-Parametric Confidence Interval

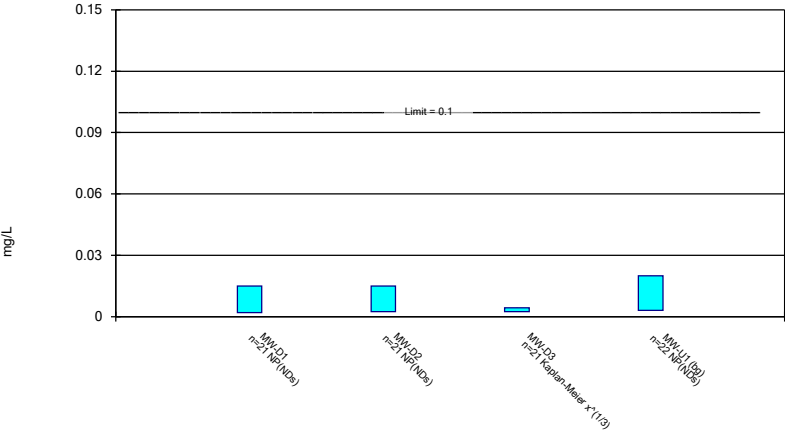
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Parametric and Non-Parametric (NP) Confidence Interval

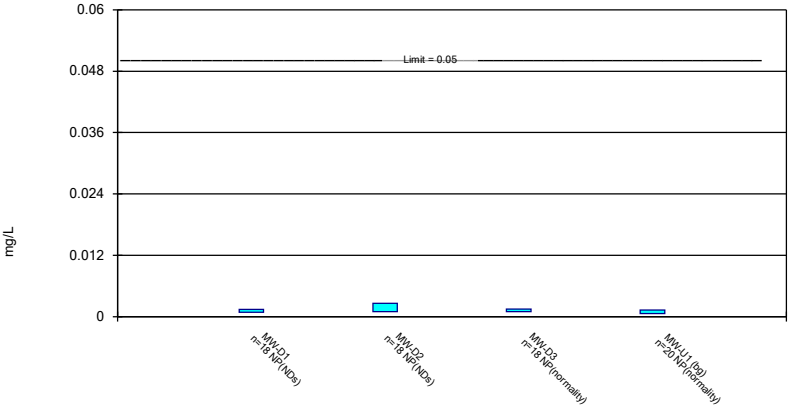
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Constituent: Molybdenum Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Non-Parametric Confidence Interval

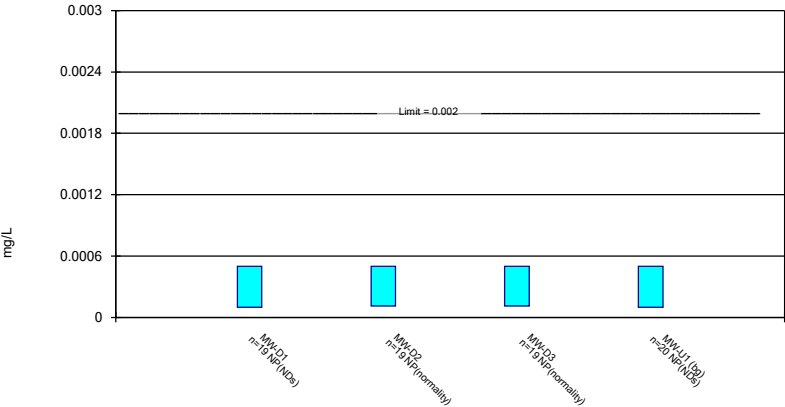
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Non-Parametric Confidence Interval

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



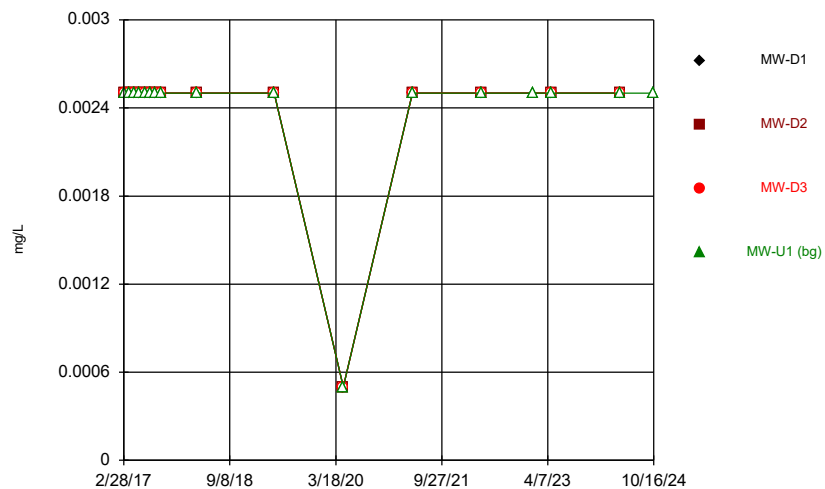
Constituent: Thallium Analysis Run 12/27/2024 4:11 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event Printed 12/27/2024, 4:12 PM

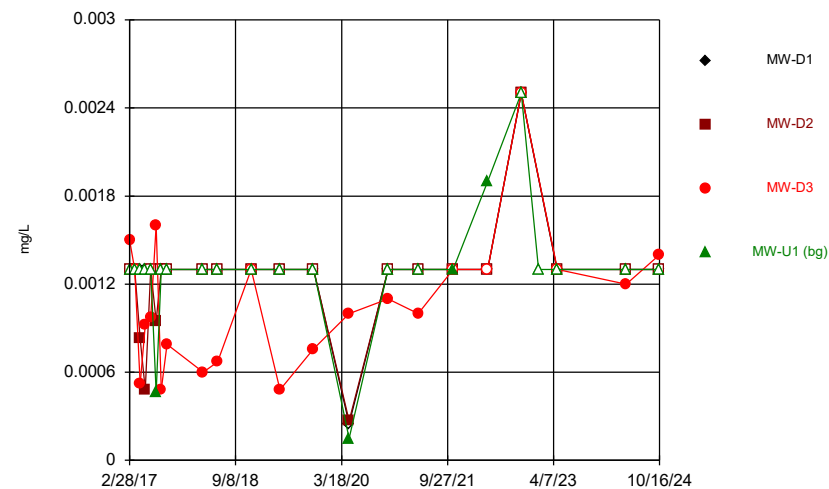
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-D1	0.0025	0.0005	0.006	No	15	0.002367	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D2	0.0025	0.0005	0.006	No	15	0.002367	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D3	0.0025	0.0005	0.006	No	15	0.002367	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.006	No	17	0.002382	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D1	0.0025	0.00025	0.01	No	22	0.001307	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D2	0.0013	0.00095	0.01	No	22	0.001233	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D3	0.001064	0.0007065	0.01	No	22	0.00109	27.27	Kapla...	No	0.01	Param.
Arsenic (mg/L)	MW-U1 (bg)	0.0019	0.0013	0.01	No	23	0.001292	82.61	Kapla...	No	0.01	NP (NDs)
Barium (mg/L)	MW-D1	0.01668	0.01222	2	No	23	0.01467	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MW-D2	0.1557	0.131	2	No	23	0.1433	0	None	No	0.01	Param.
Barium (mg/L)	MW-D3	0.1625	0.09433	2	No	23	0.1284	0	None	No	0.01	Param.
Barium (mg/L)	MW-U1 (bg)	0.0026	0.0021	2	No	24	0.002538	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-D1	0.0025	0.0004	0.004	No	15	0.001927	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D2	0.0025	0.0004	0.004	No	15	0.001927	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D3	0.0025	0.0004	0.004	No	15	0.001927	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-U1 (bg)	0.0025	0.0004	0.004	No	16	0.001931	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D1	0.0025	0.0002	0.005	No	16	0.001044	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D2	0.0025	0.000075	0.005	No	16	0.001036	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D3	0.0025	0.000071	0.005	No	16	0.001036	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-U1 (bg)	0.0025	0.0002	0.005	No	17	0.001041	100	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D1	0.0034	0.0018	0.1	No	21	0.002486	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D2	0.0026	0.0012	0.1	No	21	0.00241	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D3	0.0029	0.0017	0.1	No	21	0.002443	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-U1 (bg)	0.0022	0.0013	0.1	No	22	0.001918	9.091	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-D1	0.0025	0.0016	0.006	No	20	0.002355	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D2	0.0025	0.001	0.006	No	20	0.002323	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D3	0.001238	0.0008154	0.006	No	20	0.00149	25	Kapla...	No	0.01	Param.
Cobalt (mg/L)	MW-U1 (bg)	0.0025	0.0013	0.006	No	22	0.002264	95.45	Kapla...	No	0.01	NP (NDs)
Combined Radium 226 + ...	MW-D1	0.5321	0.2561	5	No	23	0.4849	26.09	Kapla...	No	0.01	Param.
Combined Radium 226 + ...	MW-D2	0.6546	0.3198	5	No	23	0.5402	26.09	Kapla...	No	0.01	Param.
Combined Radium 226 + ...	MW-D3	0.6429	0.2887	5	No	23	0.5394	30.43	Kapla...	No	0.01	Param.
Combined Radium 226 + ...	MW-U1 (bg)	0.1925	5.0e-7	5	No	23	0.3634	30.43	Kapla...	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-D1	0.09299	0.06387	4	No	23	0.08013	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-D2	0.07645	0.05713	4	No	23	0.068	13.04	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-D3	0.13	0.11	4	No	23	0.1248	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-U1 (bg)	0.07859	0.05712	4	No	24	0.069	12.5	None	sqrt(x)	0.01	Param.
Lead (mg/L)	MW-D1	0.0013	0.0008	0.015	No	15	0.001197	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D2	0.0013	0.0005	0.015	No	15	0.001115	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D3	0.0013	0.00025	0.015	No	15	0.00123	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-U1 (bg)	0.0013	0.00065	0.015	No	17	0.0012	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D1	0.005	0.0023	0.04	No	18	0.002517	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D2	0.0031	0.0011	0.04	No	18	0.002483	88.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D3	0.005	0.0024	0.04	No	18	0.002454	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-U1 (bg)	0.0058	0.0005	0.04	No	19	0.002455	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D1	0.0002	0.000077	0.002	No	15	0.000...	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D2	0.0002	0.00018	0.002	No	15	0.000...	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D3	0.0002	0.00011	0.002	No	15	0.000194	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-U1 (bg)	0.0002	0.000099	0.002	No	16	0.000...	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D1	0.015	0.002	0.1	No	21	0.01033	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D2	0.015	0.0025	0.1	No	21	0.009157	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D3	0.004279	0.002452	0.1	No	21	0.00481	19.05	Kapla...	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MW-U1 (bg)	0.02	0.003	0.1	No	22	0.009368	95.45	Kapla...	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D1	0.0014	0.00083	0.05	No	18	0.001167	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D2	0.0026	0.001	0.05	No	18	0.001204	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D3	0.0015	0.001	0.05	No	18	0.001279	66.67	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-U1 (bg)	0.0013	0.00062	0.05	No	20	0.001049	65	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D1	0.0005	0.0001	0.002	No	19	0.000...	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-D2	0.0005	0.00011	0.002	No	19	0.000...	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D3	0.0005	0.00011	0.002	No	19	0.000...	26.32	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-U1 (bg)	0.0005	0.0001	0.002	No	20	0.00048	100	None	No	0.01	NP (NDs)

Time Series



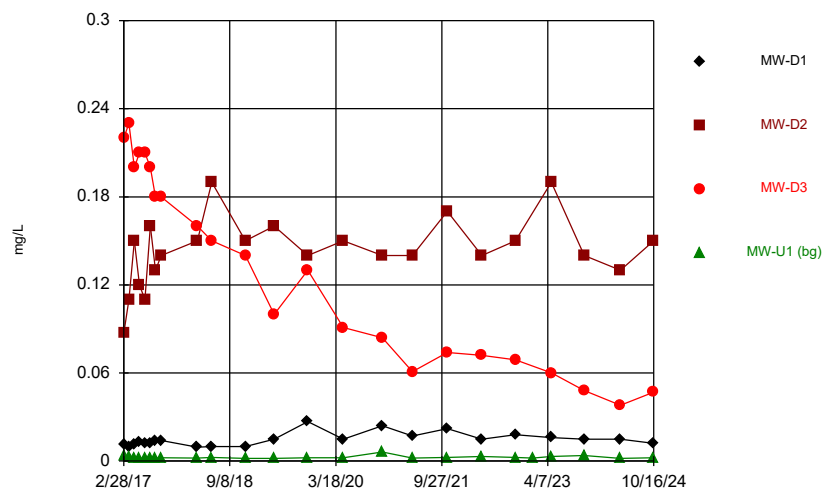
Constituent: Antimony Analysis Run 12/27/2024 4:15 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Time Series



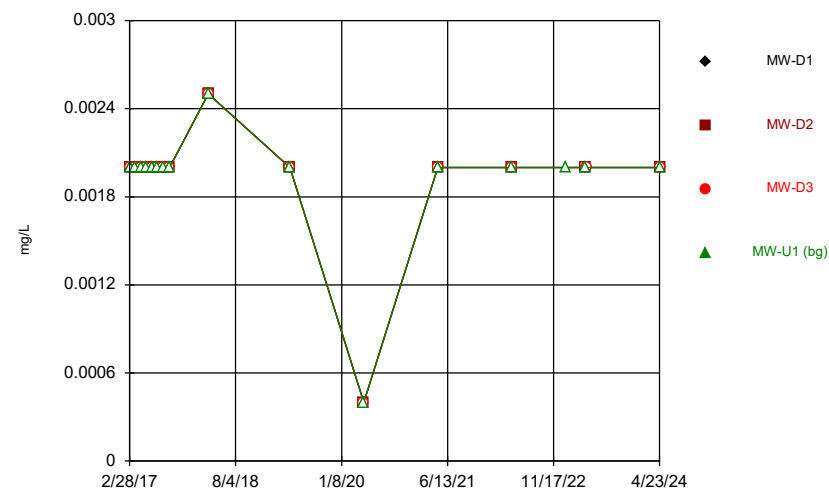
Constituent: Arsenic Analysis Run 12/27/2024 4:15 PM
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Time Series



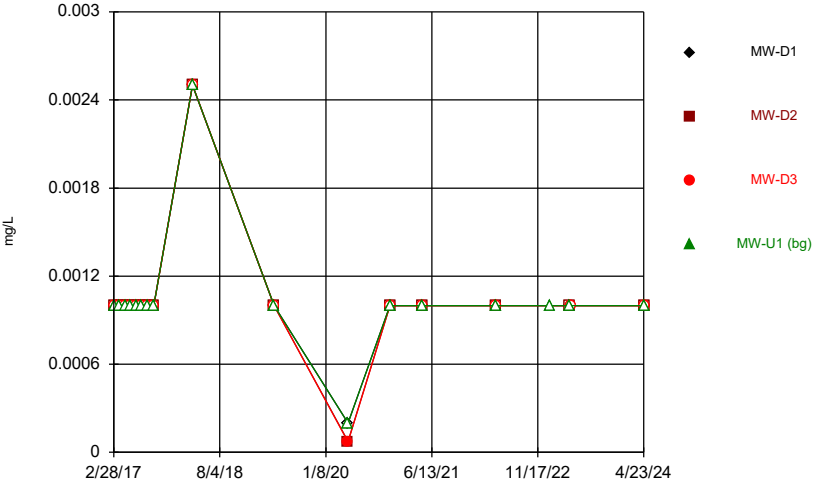
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CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

Time Series

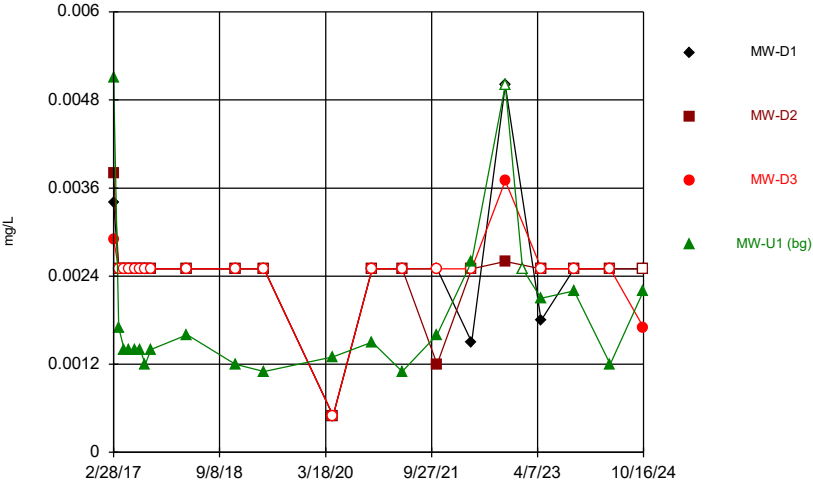


Constituent: Beryllium Analysis Run 12/27/2024 4:15 PM
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling 2024 October Event

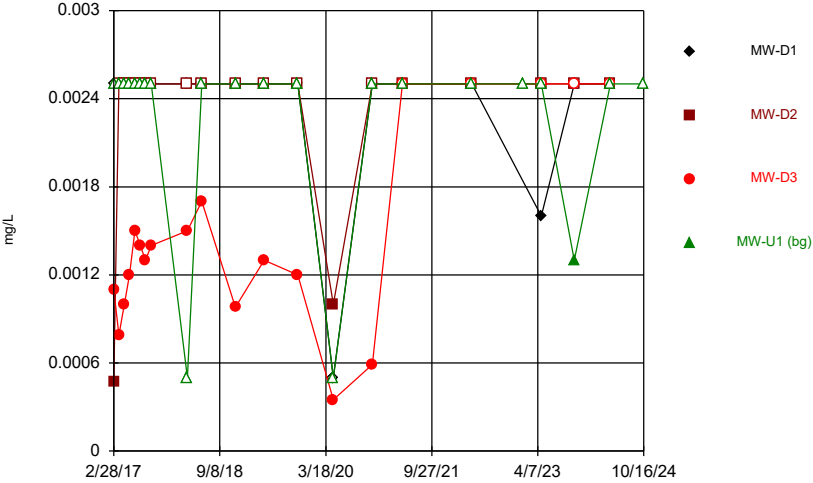
Time Series



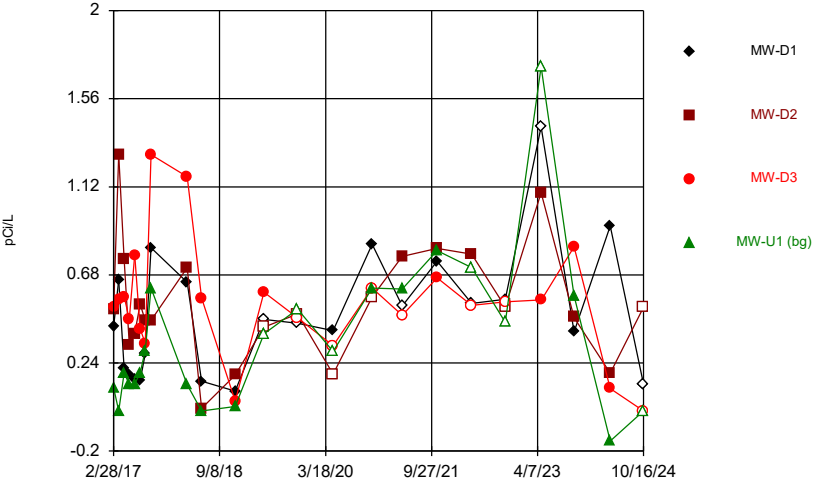
Time Series

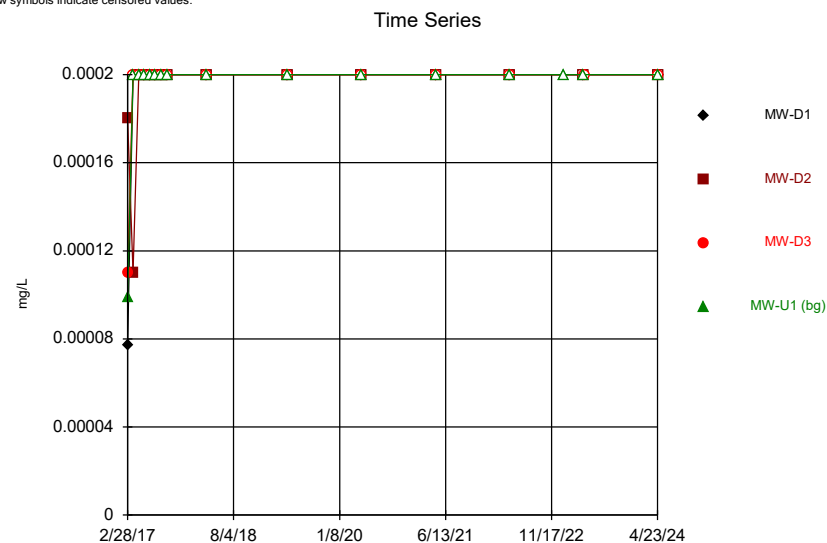
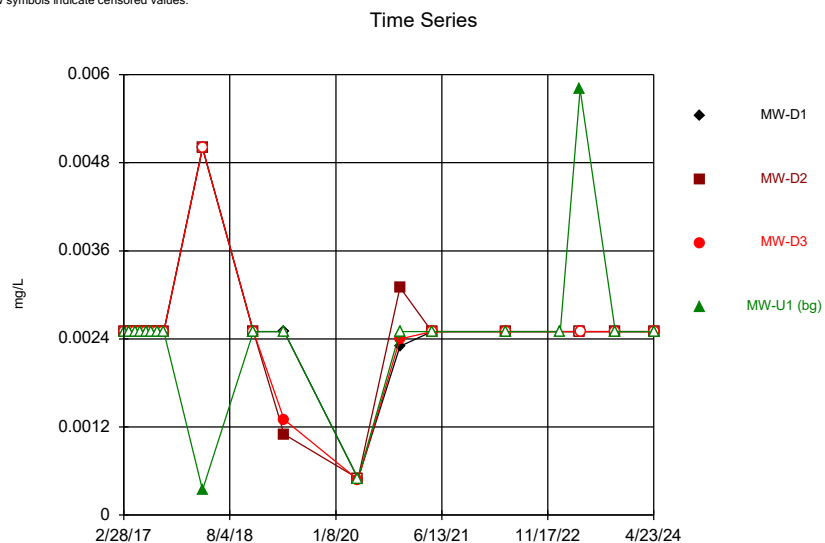
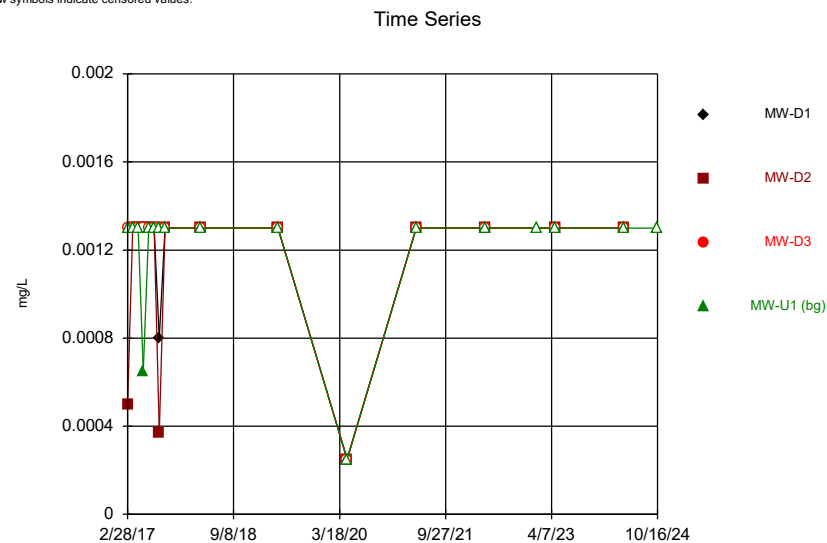
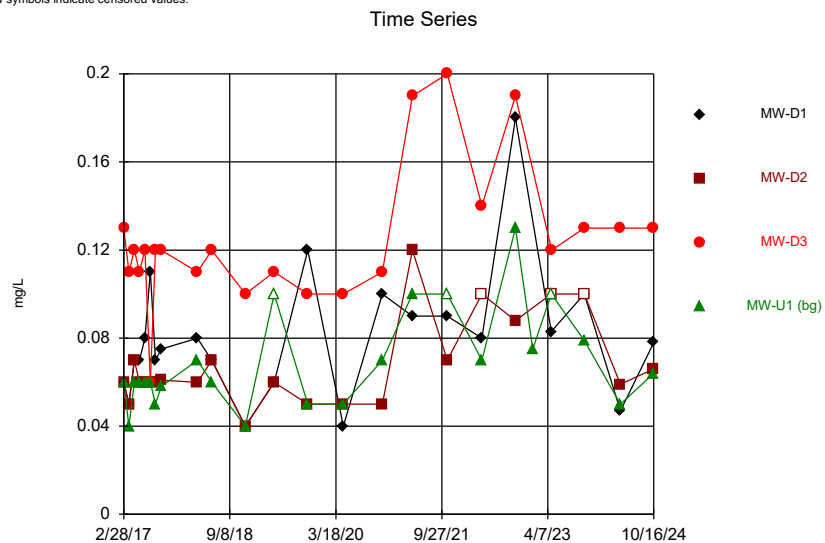


Time Series

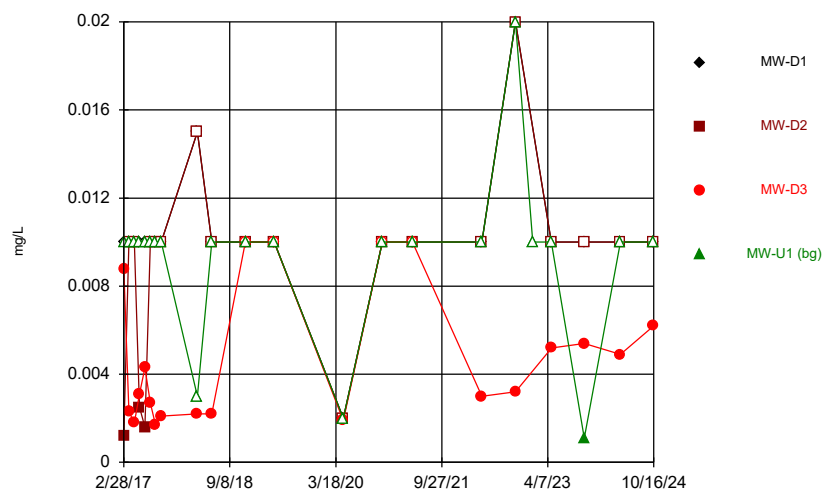


Time Series

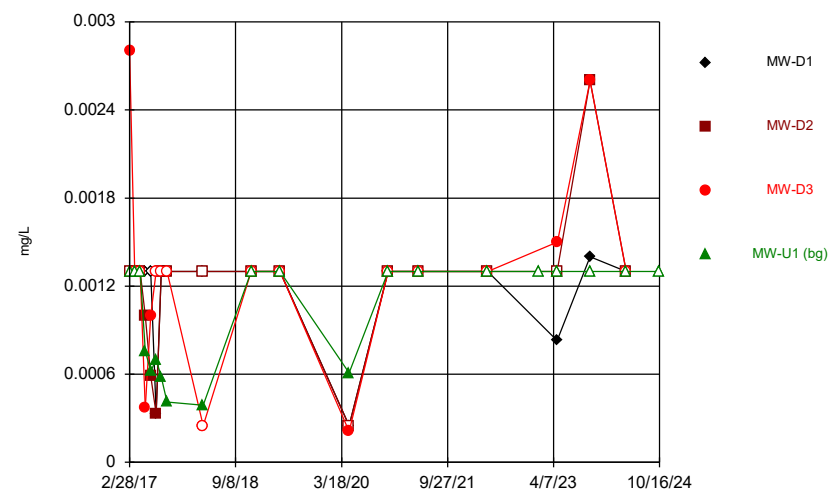




Time Series



Time Series



Time Series

