Prepared for

Crisp County Power Commission
202 S. 7th Street
Cordele, Georgia 31015

GROUNDWATER MONITORING REPORT

CRISP COUNTY POWER COMMISSION
PLANT CRISP SECONDARY ASH AREAS
Warwick, Georgia

Prepared by

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January 2024

Geosyntec
consultants

CERTIFICATION BY QUALIFIED PROFESSIONAL ENGINEER

I certify that this 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 CFR §257) and the Georgia EPD Solid Waste Management Rule for Coal Combustion Residuals (391-3-4-.10). The Groundwater Monitoring Report includes statistical methods and narrative description appropriate for evaluating the groundwater monitoring data for the CCR management area.

MEHMET ISCIMEN
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01/31/2024

Stamp/Signature/Date

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CERTIFICATION BY QUALIFIED GROUNDWATER SCIENTIST

I certify that this 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 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

CCPC	Crisp County Power Commission
CCR	Coal Combustion Residual
C.F.R.	Code of Federal Regulations
cm/sec	Centimeters per Second
DO	Dissolved Oxygen
ft/ft	Feet Per Foot
ft/year	Feet per Year
GA EPD	Georgia Environmental Protection Division
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
mg/L	Milligram Per Liter
MW	Megawatt
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

EXECUTIVE SUMMARY

Crisp County Power Commission (CCPC) has completed a groundwater detection monitoring program at two former coal ash disposal areas (referred in this document as secondary ash areas) at the Plant Crisp 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 with the relevant findings are summarized as follows.

- In compliance with 40 C.F.R. §257.94, a groundwater detection monitoring program was conducted between July 2022 and October 2023.

- 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 select Appendix III[1] constituents set forth below where concentrations of Appendix III constituents in the downgradient monitoring wells were statistically higher than the concentrations in background wells. A summary of statistically significant increases (SSIs) of Appendix III parameters is provided in the table below.

- In compliance with 40 C.F.R. §257.95(a), CCPC will initiate assessment monitoring for the secondary ash areas. The first assessment monitoring will be performed by 29 February 2024, within 90 days of triggering an assessment monitoring program.

Appendix III Parameter	October 2023
Calcium	*MW-D4, MW-D5, MW-D7, MW-D8, MW-D9*
Total Dissolved Solids (TDS)	*MW-D7, MW-D8*

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

1.0 INTRODUCTION

Geosyntec Consultants (Geosyntec) of Kennesaw, Georgia, at the request of Crisp County Power Commission (CCPC), prepared this Groundwater Monitoring Report for two former coal ash disposal areas (referred in this document as secondary ash areas). The secondary ash areas were discovered in the vicinity of the ash pond at CCPC's Plant Crisp. CCPC installed a groundwater monitoring well network in May 2022 in compliance with the requirements of the 40 CFR §257.91 as well the Section 391-3-4-.10(6) of the Georgia Environmental Protection Division (GA EPD) CCR Rule. A groundwater detection monitoring program has been performed between July 2022 and October 2023 in compliance with the requirements of the 40 CFR §257.94. This report has been prepared to present a summary of the groundwater detection monitoring activities and the monitoring results. The report has been prepared to meet the reporting requirements of 40 CFR §257.90 (e) and 391-3-4-.10(6) (c).

1.1 Site Location and History

Plant Crisp is located in Warwick, Georgia on the southern end of Lake Blackshear **Figure 1**). 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 Coal Combustion Residuals or CCRs) 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. The coal burning and resulting sluicing operation was completed in March 2017. To comply with both the United States Environmental Protection Agency's (USEPA's) 40 C.F.R. 257 and Georgia Environmental Protection Division's (GA EPD's) Solid Waste Management, Chapter 391-3-4-.10, CCPC has closed the ash pond by removal and disposal of the CCR at the Crisp County Sanitary Landfill. During the decommissioning of the ash pond, two secondary ash areas were discovered. Secondary Ash Area 1 and Secondary Ash Area 2 cover approximately 0.8 and 3.4 acres, respectively. The secondary ash areas are located on undeveloped land that are either naturally forested or landscaped grass fields (**Figure 1**).

In February 2022, CCPC submitted notification of closure of the secondary ash areas by removal in accordance with 40 C.F.R. §257. In August 2022, CCPC submitted a CCR permit modification application for closure of the secondary ash areas by removal in accordance with 40 C.F.R. §257.102(c) and the GA EPD rule 391-3-4-.10 and other GA

EPD regulations as applicable. The permit modification process was still ongoing when this report was prepared. CCPC is currently decommissioning and closing by removal the secondary ash areas in accordance with the permit, federal, and state requirements and the CCR management plan.

1.2 Background

In compliance with the detection monitoring program of the CCR rule 40 CFR §257.94, CCPC has completed nine independent groundwater sampling events between July 2022 and October 2023. The groundwater samples were collected from each background and downgradient well installed for the secondary ash areas. The groundwater monitoring well network for the secondary ash areas was designed and constructed to meet the requirements of the groundwater monitoring system 40 CFR §257.91 and includes two upgradient monitoring wells (MW-U1[2] and MW-U2) and six downgradient monitoring wells (MW-D4 through MW-D9). Monitoring wells MW-D4, MW-D5, and MW-D6 were installed immediately downgradient of Secondary Ash Area 2 (**Figure 1**). Monitoring wells MW-D7, MW-D8, and MW-D9 were installed immediately downgradient of Secondary Ash Area 1. The monitoring wells are screened in the uppermost aquifer underlying the secondary ash areas, which is in the alluvium and upper portion of the residuum. **Table 1** presents monitoring well construction details. A groundwater monitoring system certification was prepared in August 2022. Groundwater Monitoring and Statistical Analysis Plan has been prepared for the secondary ash areas in June 2022.

Section 2 of this report presents detailed discussion of the groundwater sampling activities and laboratory analysis. Groundwater analytical results from the detection monitoring program and a summary of statistical data analysis are provided in Section 3. The groundwater monitoring and statistical analysis were performed consistent with the Groundwater Monitoring and Statistical Analysis Plan.

[2] Monitoring well MW-U1 was installed for background monitoring for the ash pond. The well is also used as background well for the secondary ash areas.

2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS

The following section presents a summary of the field sampling and laboratory analysis procedures that were implemented in connection with the detection monitoring program conducted at the secondary ash areas.

2.1 Groundwater Level Measurement

Prior to sampling, a synoptic round of depth-to-groundwater-level measurements were recorded from the monitoring wells during each monitoring event. Depth to groundwater and total well depth were measured 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**[3]. The groundwater elevation obtained from the October 2023 monitoring were used to prepare the potentiometric surface map presented as **Figure 2**. Based on the potentiometric surface map, groundwater flow direction is from southeast towards northwest with a hydraulic gradient of approximately 0.012 feet per foot (ft/ft) (**Table 3**). The average horizontal groundwater flow velocity was calculated using Darcy's equation as approximately 9.2 feet per year (ft/year) (**Table 3**).

2.2 Groundwater Sampling Procedures

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].

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

[3] In addition to the secondary ash areas monitoring wells (i.e., MW-D4 through MW-D9, MW-U1, and MW-U2), depth to groundwater level measurements and the calculated groundwater elevations in monitoring wells installed for ash pond monitoring (i.e., MW-D1, MW-D2, and MW-D3) 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.

the following stabilization criteria were met for at least three consecutive measurements (as defined by USEPA LSASD operating Procedure ID. LSASDPROC-301-R6):

- pH ± 0.1 Standard Units (SU);
- Conductivity ± 5%;
- Turbidity measured less than 10 nephelometric turbidity units (NTU);
- Other parameters used are dissolved oxygen ±0.2 milligrams per liter (mg/L) or ±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 Test America Laboratories 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].

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events. Field duplicate samples (DUP-1 through DUP-9) 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 Test America Laboratories. Field sampling quality control samples (field blank and equipment blank) were collected during the October 2023 monitoring event.

2.3 Laboratory Analyses

The groundwater samples collected during the detection monitoring 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. Groundwater pH, also an Appendix III constituent, was measured in the field using a Horiba water quality meter.

Laboratory analytical results from the detection monitoring events are summarized in **Table 4a** through **Table 4i**. Laboratory analytical reports are provided as **Appendix B**. Results from the duplicate samples were also included in Tables 4a through Table 4i. Results of field blank and equipment blank samples were included in Appendix B.

3.0 DETECTION MONITORING STATISTICAL DATA ANALYSIS

Statistical analysis of the groundwater data collected during the detection monitoring was performed in accordance with the methods listed in the Groundwater Monitoring and Statistical Analysis Plan. The statistical methods meet the requirements of the methods specified in 40 CFR §257.93(f) (1) through (5) and the performance standards specified in 40 CFR §257.93(g). Statistical analysis was performed using Sanitas™ v.9.5.32 software. 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).

3.1 Appendix III Statistical Methods

For appendix III constituents, an interwell statistical method, which compares groundwater quality from downgradient monitoring wells (MW-D1 through MW-D9) to groundwater quality in the background monitoring wells (MW-U1 and MW-U2) was selected because: (i) the downgradient monitoring wells do not have any pre-CCR groundwater quality data; and (ii) monitoring wells MW-U1 and MW-U2 are located upgradient of the secondary ash areas and provided background groundwater conditions.

Prior to the interwell statistical analysis, the groundwater data from the background well was screened for potential outlier (anomalous) data. In addition to visual inspection using time-series plots, statistical methods such as Tukey's Outlier Screening method was used (when background well data was not normally distributed). Although outliers were detected for chloride, pH, and sulfate in MW-U1, they were not removed from the statistical analysis due to the 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].

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. 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 same limit for each constituent. The most recent sample from each downgradient well is compared to the background limit to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared. The prediction limits established for Appendix III constituents are provided in **Table 5**.

3.2 Appendix IV Statistical Methods

Statistical analysis of Appendix IV constituents will be performed following the first assessment monitoring. The results will be included in the July 2024 semi-annual groundwater monitoring report.

4.0 STATISTICAL ANALYSIS RESULTS

The statistical analysis results for Appendix III constituents are summarized in **Table 5.** Table 5 also identifies SSIs where concentrations of Appendix III constituents in the downgradient monitoring wells are statistically higher than the concentrations in the background monitoring wells. SSIs from background concentrations were identified for the following constituents, all of which do not have a maximum contaminant level (MCL), in the following downgradient wells:

- Calcium in MW-D4, MW-D5, MW-D7, MW-D8 and MW-D9; and
- TDS in MW-D7 and MW-D8.

Sanitas™ statistical calculations and time-series graphs for each constituent are provided in **Appendix C**.

5.0 FUTURE GROUNDWATER MONITORING PROGRAM

Data collected during the detection monitoring indicated that statistically significant increases were identified for Appendix III constituent calcium and TDS over background. In compliance with 40 CFR §257.95(a), CCPC will initiate an assessment monitoring program for the secondary ash areas. The first assessment monitoring will be performed by 29 February 2024, within 90 days of triggering an assessment monitoring program.

Following the first assessment monitoring, 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 2024 groundwater monitoring results will be submitted by January 31, 2025. Pursuant to the GA EPD CCR Rule 391-3-4-.10(6)(c), a semi-annual monitoring will be conducted in April 2024 and a semi-annual monitoring report will be submitted to GA EPD by July 31, 2024.

6.0 REFERENCES

USEPA (2009). Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance.

USEPA (2013). Science and Ecosystem Support Division (SESD, Athens, Georgia) Standard Operating Procedure (SOP) (SESDPROC-301-R3).

USEPA (2015). Science and Ecosystem Support Division (SESD, Athens, Georgia) Field Equipment Cleaning and Decontamination (SESDPROC-205-R3).

USEPA (2023). Laboratory Services & Applied Science Division (LSASD, Athens, Georgia) Operating Procedure (LSASDPROC-301-R6).

TABLES

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

Well ID	Installation Date	Well Location	Northing[(1)]	Easting[(1)]	Ground Surface Elevation[(2)] (ft)	Top of Casing Elevation[(2)] (ft)	Total Well Depth (ft bgs)	Screen Depth Interval (ft bgs)	Screen Interval Elevation[(2)] (ft)	Screen Interval Lithologic Information
MW-D4	5/12/2022	Downgradient	669875.01	2365444.95	244.22	246.51	27.25	17.00-27.00	227.22-217.22	Residual Soil
MW-D5	5/16/2022	Downgradient	670216.49	2365178.72	238.31	241.16	33.00	22.75-32.75	215.56-205.56	Residual Soil
MW-D6	5/13/2022	Downgradient	670393.04	2365406.13	249.85	252.63	34.25	24.00-34.00	225.85-215.85	Residual Soil
MW-D7	5/13/2022	Downgradient	671054.07	2365037.89	227.21	230.18	24.40	14.15-24.15	213.06-203.06	Residual Soil
MW-D8	5/13/2022	Downgradient	671186.85	2364861.25	223.90	226.76	25.00	14.75-24.75	209.15-199.15	Residual Soil
MW-D9	5/14/2022	Downgradient	671482.27	2364959.09	218.99	221.42	24.80	14.55-24.55	204.44-194.44	Residual Soil
MW-U1	2/23/2017	Upgradient	669996.79	2366420.55	246.28	249.52	33.75	23.50-33.50	222.78-212.78	Alluvium and Residual Soil
MW-U2	5/12/2022	Upgradient	669748.63	2366247.88	245.69	248.79	27.75	17.50-27.50	228.19-218.19	Residual Soil

Notes:
ft = feet
bgs = below ground surface
The easting, northing, and top of casing elevations were obtained from a revised survey performed by J.B. Faircloth & Associates, P.C. on 19 November 2019 and 2 May 2022.
(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 Secondary Ash Areas

Well ID	CCR Unit being Monitored	TOC Elevation (ft MSL)[1]	Date: 10/17/2023	
			Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-D1	Ash Pond	241.77	16.15	225.62
MW-D2	Ash Pond	232.66	13.46	219.20
MW-D3	Ash Pond	233.78	7.89	225.89
MW-U1	Ash Pond	249.52	15.64	233.88
MW-D4	Secondary Ash Areas	246.51	13.59	232.92
MW-D5	Secondary Ash Areas	241.16	10.41	230.75
MW-D6	Secondary Ash Areas	252.63	23.95	228.68
MW-D7	Secondary Ash Areas	230.18	8.28	221.90
MW-D8	Secondary Ash Areas	226.76	8.52	218.24
MW-D9	Secondary Ash Areas	221.42	11.03	210.39
MW-U2	Secondary Ash Areas	248.79	15.24	233.55
Lake Blackshear	--	--	--	236.87[2]

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 data obtained on 10/17/2023 at 12:00 PM.

Table 3. Hydraulic Gradient and Groundwater Flow Velocity Calculations

Crisp County Power Commission
Plant Crisp Secondary Ash Areas

Location	Hydraulic Gradient (10/17/2023)				Groundwater Flow Velocity (10/17/2023)		
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K_h(ft/day)	ηe	V (ft/year)[1]
Between MW-U1 (h_1) and MW-D9 (h_2)	233.88	210.39	2,075	0.011	0.41	0.20	8.5
Between MW-D4 (h_1) and MW-D9 (h_2)	232.92	210.39	1,690	0.013	0.41	0.20	10.0
Between Lake Blackshear (h_1) and MW-D3 (h_2)	236.87	225.89	905	0.012	0.41	0.20	9.1
Average				**0.012**			**9.2**

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 location, respectively.

$\Delta h/\Delta l$ = 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.

ηe = 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 4a. Analytical Data Summary – Background Groundwater Sampling Event #1 (Sampling Performed on 27-28 July 2022)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID	Downgradient Well ID						
					MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
						MW-D4	DUP					
Boron	mg/L	N/A	N/A	0.0012	ND ^3+	ND ^3+	ND ^3+	ND	ND ^3+	<0.050 (0.029 J^2)	<0.050 (0.034 J^2)	ND ^3+
Calcium	mg/L	N/A	N/A	0.63	39	50	48	46	41	62	77	53
Chloride	mg/L	N/A	N/A	1.4	2.4	3.7	4.0	8.3	5.0	3.9	8.0	2.4
Fluoride	mg/L	4	N/A	0.070	<1.0 (0.45 J H)	ND H	ND H	ND H	ND H	ND H	ND H	ND H
Sulfate	mg/L	N/A	N/A	1.4	50 F1	<5 (2.3 J)	<5 (2.3 J)	<5 (1.9 J)	<5 (2.0 J)	<5 (3.8 J)	17	<5 (2.0 J)
pH[3]	SU	N/A	N/A	--	8.55	7.92	7.92	7.76	8.78	8.37	7.77	8.47
Total Dissolved Solids	mg/L	N/A	N/A	5.0	230	190	230	220	250	350	270	170

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID	Downgradient Well ID						
					MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
						MW-D4	DUP					
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND *+	ND *+	ND *+	ND	ND	ND	0.0015
Barium	mg/L	2	N/A	0.00070	0.043 B	0.039	0.038	0.028	0.012 B	0.12 B	0.048 B	0.042 B
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	0.0020	ND	<0.0010 (0.00071 JB)	ND	ND	<0.0010 (0.00086 J)	0.0012	ND
Chromium	mg/L	0.1[5]	N/A	0.0010	ND	ND	ND	ND	<0.0025 (0.0013 J)	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00056	<0.0025 (0.00068 J)	<0.0025 (0.00057 J)	ND	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.07000	<1.0 (0.45 J H)	ND H	ND H	ND H	ND H	ND H	ND H	ND H
Lead	mg/L	0.015[6]	0.015	0.00081	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.0013	ND	ND	ND	ND	ND	ND	ND	<0.010 (0.0023 J)
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.980	0.236 U	0.904	0.807	-0.0527 U	0.279 U	0.680	0.435 U
Selenium	mg/L	0.05	N/A	0.00082	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	0.00	N/A	0.00046	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the MDL.
N/A = not applicable for the constituent.
-- '= not applicable
DUP is a duplicate sample collected from MW-D4.
J = concentration is less than
B = compound was found in blank and sample.
U = Result is less than the sample detection limit.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.441 pCi/L for MW-U2, 0.683 pCi/L for MW-D4, 0.431 pCi/L for MW-D5, 0.455 pCi/L for MW-D6, 0.574 pCi/L for MW-D7, 0.454 pCi/L for MW-D8, 0.522 pCi/L for MW-D9, and 0.426 pCi/L for DUP.
*+ = Laboratory Control Sample (LCS) and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, high biased.
^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+ = Reporting limit check standard is outside acceptance limits, high biased
H = Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
F1 = The matrix spike / matrix spike duplicate (MS and/or MSD) recovery exceeds control limits.

Table 4b. Analytical Data Summary – Background Groundwater Sampling Event #2 (Sampling Performed on 19-20 October 2022)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID	Downgradient Well ID						
					MW-U2	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8		MW-D9
										MW-D8	DUP-2	
Boron	mg/L	N/A	N/A	0.0024	ND	ND	ND	ND	ND	<0.1 (0.014 J)	<0.1 (0.018 JB)	ND
Calcium	mg/L	N/A	N/A	0.25	26	40	36	32	55	67	70	53
Chloride	mg/L	N/A	N/A	1.4	2.5	<2 (1.7 J)	5.9	4.1	2.9	4.6	4.5	<2 (1.6 J)
Fluoride	mg/L	4	N/A	0.070	0.32	0.22	<0.1 (0.073 J F1)	0.21	0.13	<0.1 (0.092 J)	<0.1 (0.099 J)	0.16
Sulfate	mg/L	N/A	N/A	1.4	35	<5 (1.8 J)	<5 (2.7 J)	<5 (2.2 J)	<5 (4.5 J)	18	17	<5 (2.1 J)
pH[3]	SU	N/A	N/A	--	7.77	7.45	7.10	8.08	7.45	7.53	7.53	7.78
Total Dissolved Solids	mg/L	N/A	N/A	5.0	130	220	190	170	270	520	270	120

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID	Downgradient Well ID						
					MW-U2	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8		MW-D9
										MW-D8	DUP-2	
Antimony	mg/L	0.006	N/A	0.0030	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0024	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00140	0.022	0.039	0.025	0.0094	0.085	0.051	0.053	0.04
Beryllium	mg/L	0.004	N/A	0.00180	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00130	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0020	ND	ND	ND	ND	ND	<0.005 (0.0044 J^2B)	<0.005 (0.0032 J^2)	<0.005 (0.0049 J^2)
Cobalt	mg/L	N/A	0.006	0.00110	ND	ND	ND	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.07000	0.32	0.22	<0.1 (0.073 J F1)	0.21	0.13	<0.1 (0.092 J)	<0.1 (0.099 J)	0.16
Lead	mg/L	0.015[6]	0.015	0.00160	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0098	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	ND^5-	ND^5-	ND^5-	ND^5-	ND^5-	ND^5-	ND^5-	ND^5-
Molybdenum	mg/L	N/A	0.1	0.0026	ND	ND	ND	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.468 U	0.791	0.426 U	0.441 U	-0.0315 U	0.291 U	0.122 U	0.525
Selenium	mg/L	0.05	N/A	0.00160	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	0.00	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
NA = the constituent was not analyzed during the October 2022 monitoring event.
N/A = not applicable for the constituent.
-- = not applicable
DUP-2 is a duplicate sample collected from MW-D8.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis
^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5- = Linear Range Check (LRC) is outside acceptance limits, low biased.
F1 = The matrix spike / matrix spike duplicate (MS and/or MSD) recovery exceeds control limits.

Table 4c. Analytical Data Summary – Background Groundwater Sampling Event #3 (Sampling Performed on 05-06 December 2022)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5		MW-D6	MW-D7	MW-D8	MW-D9
								MW-D5	DUP-3				
Boron	mg/L	N/A	N/A	0.0012	<0.050 (0.0099 JB)	<0.05 (0.0085 JB)	<0.05 (0.016 J^3+ B)	<0.05 (0.016 J^3+ B)	<0.05 (0.0061 JB)	<0.05 (0.016 J^3+ B)	<0.05 (0.037 JB)	<0.05 (0.045 JB)	<0.05 (0.0046 JB)
Calcium	mg/L	N/A	N/A	0.25	35	38	45	44	46	36	65	79	57
Chloride	mg/L	N/A	N/A	1.4	2.1	3.3	<2 (1.9 J)	7.1	7.1	4.7	3.5	5.8	<2 (1.8 J)
Fluoride	mg/L	4	N/A	0.070	<0.10 (0.099 J)	0.30	0.15	ND	ND	0.17	<0.1 (0.092 J)	<0.1 (0.072 J)	0.12
Sulfate	mg/L	N/A	N/A	1.4	<5.0 (2.2 J)	29	<5 (1.5 J)	ND	<5 (1.6 J)	<5 (1.8 J)	<5 (3.7 J)	19	<5 (2.2 J)
pH[3]	SU	N/A	N/A	--	7.66	7.64	7.35	7.13	7.13	7.71	7.61	7.62	7.44
Total Dissolved Solids	mg/L	N/A	N/A	5.0	170	170	210	240	190	160	270	240	210

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5		MW-D6	MW-D7	MW-D8	MW-D9
								MW-D5	DUP-3				
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00070	0.0027	0.019	0.029	0.027	0.027	0.0093	0.087	0.055	0.041
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	ND	ND	ND	ND	ND	ND	ND	ND^3+	ND
Chromium	mg/L	0.1[5]	N/A	0.0010	<0.0025 (0.0022 JB)	<0.0025 (0.0023 JB)	ND	ND	<0.0025 (0.0019 JB)	<0.0025 (0.0010 J)	<0.0025 (0.0012 JB^2)	<0.0025 (0.0018 J^2B)	<0.0025 (0.0014 JB^2)
Cobalt	mg/L	N/A	0.006	0.00056	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.07000	<0.10 (0.099 J)	0.30	0.15	ND	ND	0.17	<0.1 (0.092 J)	<0.1 (0.072 J)	0.12
Lead	mg/L	0.015[6]	0.015	0.00130	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0025	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	<0.00020 (0.00019 JB)	<0.00020 (0.00018 JB)	ND	ND	<0.00020 (0.00019 JB)	ND	ND	0.00022 B	0.00022 B
Molybdenum	mg/L	N/A	0.1	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.238 U	0.910	0.642	0.392 U	0.533 U	0.315 U	0.761	0.510 U	0.427 U
Selenium	mg/L	0.05	N/A	0.00130	0.0014 B	0.0021 B	ND^3+	ND^3+	0.0013 B	ND^3+	<0.0013 (0.0012 JB)	<0.0013 (0.00098 JB)	<0.0013 (0.00084 JB)
Thallium	mg/L	0.00	N/A	0.00050	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
NA = the constituent was not analyzed during the December 2022 monitoring event.
N/A = not applicable for the constituent.
-- '= not applicable
DUP-3 is a duplicate sample collected from MW-D5.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis
^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+ = Reporting limit check standard is outside acceptance limits, high biased

Table 4d. Analytical Data Summary – Background Groundwater Sampling Event #4 (Sampling Performed on 18-19 January 2023)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6	MW-D7		MW-D8	MW-D9
										MW-D7	DUP-4		
Boron	mg/L	N/A	N/A	0.0012	ND ^3+	ND ^3+	ND ^3+	ND ^3+	ND ^3+	<0.050 (0.023 J ^3+)	<0.050 (0.025 J^3+)	<0.050 (0.035 J^3+)	ND ^3+
Calcium	mg/L	N/A	N/A	0.13	36 B	44 B	48 B	43 B	35 B	64	64	79	56
Chloride	mg/L	N/A	N/A	1.4	2.2	4.3	<2.0 (1.6 J)	7.6	4.4	3.5	3.8	5.4	2.1
Fluoride	mg/L	4	N/A	0.070	<0.10 (0.075 J)	0.18	0.14	ND	0.13	<0.10 (0.079 J)	<0.10 (0.079 J)	ND	<0.10 (0.096 J)
Sulfate	mg/L	N/A	N/A	1.4	<5.0 (1.9 J)	120	ND	< 5.0 (3.1 J)	<5.0 (1.9 J)	<5.0 (4.1 J)	<5.0 (3.8 J)	19	<5.0 (2.4 J)
pH[3]	SU	N/A	N/A	--	9.43	7.64	8.18	8.31	7.89	7.33	7.33	7.37	8.93
Total Dissolved Solids	mg/L	N/A	N/A	5.0	110	240	140	160	2100	220	210	240	180

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6	MW-D7		MW-D8	MW-D9
										MW-D7	DUP-4		
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND	ND	ND	ND	ND	0.0013	ND	0.0014
Barium	mg/L	2	N/A	0.00070	<0.0025 (0.0021 J)	0.030	0.031	0.032	0.0083	0.080	0.076	0.059	0.044
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0025	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00250	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.07000	<0.10 (0.075 J)	0.18	0.14	ND	0.13	<0.10 (0.079)	<0.10 (0.079 J)	ND	<0.10 (0.096 J)
Lead	mg/L	0.015[6]	N/A	0.00130	ND	ND	ND	<0.0013 (0.00095 J)	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0025	ND	ND	ND	0.0067	0.0056	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.136 U	0.548	0.237 U	0.305 U	0.234 U	0.350 U	0.335 U	0.300 U	0.388 U
Selenium	mg/L	0.05	N/A	0.00130	ND	0.0015	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	0.00	N/A	0.00050	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
N/A = not applicable for the constituent.
-- '= not applicable
DUP-4 is a duplicate sample collected from MW-D7.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis
^3+ = Reporting limit check standard is outside acceptance limits, high biased

Table 4e. Analytical Data Summary – Background Groundwater Sampling Event #5 (Sampling Performed on 01-02 March 2023)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6		MW-D7	MW-D8	MW-D9
									MW-D6	DUP-5			
Boron	mg/L	N/A	N/A	0.0012	<0.050 (0.016 J B)	<0.050 (0.015 J)	<0.050 (0.014 J)	<0.050 (0.019 J B)	<0.050 (0.020 J)	<0.050 (0.025 J)	<0.050 (0.043 J)	0.067 B	<0.050 (0.022 J)
Calcium	mg/L	N/A	N/A	0.13	35	20	48	35	34	35	64	79	58
Chloride	mg/L	N/A	N/A	1.4	<2.0 (1.8 J)	2.2	2.0	5.9	4.3	4.7	3.6	6.0	2.1
Fluoride	mg/L	4	N/A	0.070	ND	0.13	0.12	ND	<0.10 (0.098 J)	<0.10 (0.098 J)	<0.10 (0.074 J)	ND	<0.10 (0.087 J)
Sulfate	mg/L	N/A	N/A	1.4	<5.0 (2.5 J)	38	<5.0 (1.6 J)	< 5.0 (3.8 J)	<5.0 (3.4 J)	<5.0 (3.1 J)	<5.0 (4.1 J)	24	5.1
pH[3]	SU	N/A	N/A	--	7.84	6.58	7.49	6.93	7.73	7.73	7.47	7.21	7.54
Total Dissolved Solids	mg/L	N/A	N/A	5.0	180	120	180	120	150	110	140	240	190

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6		MW-D7	MW-D8	MW-D9
									MW-D6	DUP-5			
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	0.0014
Barium	mg/L	2	N/A	0.00070	<0.0025 (0.0020 J)	0.015	0.028	0.022	0.0089	0.009	0.077	0.055	0.042
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0010	--[9]	--[9]	--[9]	--[9]	--[9]	--[9]	--[9]	--[9]	--[9]
Cobalt	mg/L	N/A	0.006	0.00056	<0.0025 (0.0022 J)	<0.0025 (0.0022 J)	<0.0025 (0.0024 J)	<0.0025 (0.0024 J)	<0.0025 (0.0021 J)	<0.0025 (0.0023 J)	<0.0025 (0.0022 J)	<0.0025 (0.0021 J)	0.0027
Fluoride	mg/L	4	N/A	0.07000	ND	0.13	0.12	ND	<0.10 (0.098 J)	<0.10 (0.098 J)	<0.10 (0.074 J)	ND	<0.10 (0.087 J)
Lead	mg/L	0.015[6]	N/A	0.00081	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	ND	ND	ND	ND	ND	0.0002	ND	ND	<0.00020 (0.00019 J)
Molybdenum	mg/L	N/A	0.1	0.0013	<0.010 (0.0030 J)	<0.010 (0.0033 J)	<0.010 (0.0038 J)	<0.010 (0.0027 J)	<0.010 (0.0027 J)	<0.010 (0.0026 J)	<0.010 (0.0031 J)	<0.010 (0.0022 J)	<0.010 (0.0031 J)
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.675	0.609	0.519	0.519	0.896	0.303 U	0.661	0.622	0.379 U
Selenium	mg/L	0.05	N/A	0.00082	0.0028	0.0026	0.00360	0.0031	0.0023	0.0023	<0.0013 (0.0010 J)	0.0034	0.0029
Thallium	mg/L	0.00	N/A	0.00046	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical method detection limit (MDL).
N/A = not applicable for the constituent.
-- '= not applicable
DUP-5 is a duplicate sample collected from MW-D6.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.

[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.512 pCi/L for MW-U1, 0.501 pCi/L for MW-U2, 0.454 pCi/L for MW-D4, 0.435 pCi/L for MW-D5, 0.551 pCi/L for MW-D6, 0.489 pCi/L for MW-D7, 0.520 pCi/L for MW-D8, 0.515 pCi/L for MW-D9, and 0.533 pCi/L
[9]: There is evidence for chromium contamination in the samples. The lab has a high degree of confidence that the contamination was introduced during the digestate dilution step prior to analysis. Based on recoveries of the associated QC the high bias in the result is approximately 0.15 mg/L. Subtracting the reported result by this value would give a reasonable estimation of the amount of chromium in the samples and QC. See lab reports in Appendix B for further discussion.

Table 4f. Analytical Data Summary – Background Groundwater Sampling Event #6 (Sampling Performed on 26-27 April 2023)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8		MW-D9
											MW-D8	DUP-6	
Boron	mg/L	N/A	N/A	0.0012	<0.05 (0.020 J B)	<0.05 (0.027 J B)	<0.05 (0.025 J B F1)	<0.05 (0.034 J B)	<0.05 (0.027 J B)	0.061 B	0.069 B	0.064 B	<0.05 (0.032 J B)
Calcium	mg/L	N/A	N/A	0.13	37	20	50	41	38	77	85	82	61
Chloride	mg/L	N/A	N/A	1.4	<2.0 (1.7 J)	3.4	<2.0 (1.8 J)	6.7	3.7	4.1	4.6	4.7	2.0
Fluoride	mg/L	4	N/A	0.070	ND	0.11	0.16	ND	0.11	<0.1 (0.074 J)	ND	ND	<0.1 (0.083 J)
Sulfate	mg/L	N/A	N/A	1.4	<5.0 (2.0 J)	28	ND	< 5.0 (2.5 J)	<5.0 (3.4 J)	13	19	19	<5.0 (2.3 J)
pH[3]	SU	N/A	N/A	--	7.82	7.57	7.67	6.86	8.11	7.33	7.33	7.33	11.24
Total Dissolved Solids	mg/L	N/A	N/A	5.0	110	84	140	160	150	230	280	240	160

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8		MW-D9
											MW-D8	DUP-6	
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND F1	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00070	0.0031	0.012	0.027	0.030	0.011	0.15	0.059	0.058	0.048
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0010	<0.0025 (0.0021 J)	<0.0025 (0.0017 J)	<0.0025 (0.0017 J)	<0.0025 (0.0016 J)	0.0042	ND	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00056	ND	ND	ND	ND	ND	<0.0025 (0.0022 J)	ND	ND	ND
Fluoride	mg/L	4	N/A	0.07000	ND	0.11	0.16	ND	0.11	<0.1 (0.074 J)	ND	ND	<0.1 (0.083 J)
Lead	mg/L	0.015[6]	N/A	0.00081	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	0.0058	ND	ND	0.0053	ND	ND	ND	0.0053	0.0049
Mercury	mg/L	0.002[7]	N/A	0.00015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	1.39 U	0.710 U	0.836 U	0.641 U	1.34 U	1.22 U	0.603 U	1.92	-0.0298 U
Selenium	mg/L	0.05	N/A	0.00130	ND	0.0015	<0.0013 (0.0011 J B)	ND	<0.0013 (0.0011 J)	ND	<0.0013 (0.001 J)	<0.0013 (0.001 J)	ND
Thallium	mg/L	0.00	N/A	0.00050	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
N/A = not applicable for the constituent.
-- '= not applicable
F1 = MS and/or MSD recovery exceeds control limits.
DUP-6 is a duplicate sample collected from MW-D8.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.

[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 1.72 pCi/L for MW-U1, 0.710 pCi/L for MW-U2, 1.16 pCi/L for MW-D4, 0.992 pCi/L for MW-D5, 1.62 pCi/L for MW-D6, 1.32 pCi/L for MW-D7, 1.64 pCi/L for MW-D8, 1.31 pCi/L for MW-D9, and 1.36 pCi/L for DUP-6.

Table 4g. Analytical Data Summary – Background Groundwater Sampling Event #7 (Sampling Performed on 12-13 June 2023)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
							MW-D4	DUP-7					
Boron	mg/L	N/A	N/A	0.0290	ND	ND	ND	ND	ND	ND	<0.050 (0.031 J)	<0.050 (0.042 J)	ND
Calcium	mg/L	N/A	N/A	0.13	35	19	48	48	42	35	64	80	55
Chloride	mg/L	N/A	N/A	1.4	<2.0 (1.9 J)	2.3	2.1	2.3	8.6	5.3	4.9	6.8	2.4
Fluoride	mg/L	4	N/A	0.070	<0.10 (0.080 J)	0.12	0.15	0.13	ND	0.11	<0.10 (0.074 J)	ND	<0.10 (0.084 J)
Sulfate	mg/L	N/A	N/A	1.4	<5.0 (1.5 J)	27	ND	6.2	< 5.0 (1.4 J)	<5.0 (3.1 J)	8.4	18	< 5.0 (2.5 J)
pH[3]	SU	N/A	N/A	--	7.79	7.79	7.76	7.76	7.05	7.72	7.68	7.41	7.39
Total Dissolved Solids	mg/L	N/A	N/A	5.0	120	96	150	140	180	140	220	240	210

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
							MW-D4	DUP-7					
Antimony	mg/L	0.006	N/A	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00180	0.0027	0.0099	0.025	0.024	0.032	0.0085	0.094	0.049	0.041
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0021	0.058	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00056	ND	ND	ND	ND	ND	ND	<0.0025 (0.00081 J)	ND	ND
Fluoride	mg/L	4	N/A	0.07000	<0.10 (0.080 J)	0.12	0.15	0.13	ND	0.11	<0.10 (0.074 J)	ND	<0.10 (0.084 J)
Lead	mg/L	0.015[6]	0.015	0.00081	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	ND ^3+	ND ^3+	ND ^3+	ND	ND ^3+	ND	ND ^3+	ND	ND ^3+
Mercury	mg/L	0.002[7]	N/A	0.00015	ND F1	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.104 U	- 0.356 U	0.662	0.117 U	0.219 U	0.233 U	1.02	-0.0397 U	0.887
Selenium	mg/L	0.05	N/A	0.00130	0.053	0.0016	ND	ND ^3+	<0.0013 (0.0010 J)	0.0022	ND	ND	0.0039
Thallium	mg/L	0.00	N/A	0.00050	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
N/A = not applicable for the constituent.
-- '= not applicable
DUP-7 is a duplicate sample collected from MW-D4.
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.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.706 pCi/L for MW-U1, 0.899 pCi/L for MW-U2, 0.596 pCi/L for MW-D4, 0.610 pCi/L for MW-D5, 0.737 pCi/L for MW-D6, 0.564 pCi/L for MW-D7, 0.530 pCi/L for MW-D8, 0.603 pCi/L for MW-D9, and 0.603 pCi/L
^3+ = Reporting limit check standard is outside acceptance limits, high biased
F1 = Matrix spike and matrix spike duplicate (MS and/or MSD) recovery exceeds control limits.

Table 4h. Analytical Data Summary – Background Groundwater Sampling Event #8 (Sampling Performed on 26-28 July 2023)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6	MW-D7		MW-D8	MW-D9
										MW-D7	DUP-8		
Boron	mg/L	N/A	N/A	0.0290	ND	ND	ND	ND	ND	<0.050 (0.036 J)	<0.050 (0.042 J)	<0.050 (0.039 J)	ND
Calcium	mg/L	N/A	N/A	0.25	37	18	45	42	35	69	66	82	56
Chloride	mg/L	N/A	N/A	0.130	ND	ND	<2.0 (1.4 J)	8.1	4.4	3.8	3.3	6.8	<2.0 (1.7 J)
Fluoride	mg/L	4	N/A	0.070	ND	<0.10 (0.093 J)	0.11	ND	0.10	<0.10 (0.076 J)	<0.10 (0.073 J)	ND	<0.10 (0.086 J)
Sulfate	mg/L	N/A	N/A	1.4	ND	19 F1	ND	ND	<5.0 (2.1 J)	<5.0 (4.1 J)	<5.0 (3.3 J)	20	ND
pH[3]	SU	N/A	N/A	--	7.65	7.50	7.51	6.72	7.75	7.22	7.22	7.06	7.48
Total Dissolved Solids	mg/L	N/A	N/A	5.0	110	90	140	170	110	230	210	250	170

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5	MW-D6	MW-D7		MW-D8	MW-D9
										MW-D7	DUP-8		
Antimony	mg/L	0.006	N/A	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	0.0013
Barium	mg/L	2	N/A	0.00180	0.0043	0.011	0.020	0.030	0.0081	0.095	0.091	0.056	0.040
Beryllium	mg/L	0.004	N/A	0.00092	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00056	ND	ND	ND	ND	ND	<0.0025 (0.00077 J)	<0.0025 (0.00071 J)	ND	ND
Fluoride	mg/L	4	N/A	0.07000	ND	<0.10 (0.093 J)	0.11	ND	0.10	<0.10 (0.076 J)	<0.10 (0.073 J)	ND	<0.10 (0.086 J)
Lead	mg/L	0.015[6]	0.015	0.00081	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	ND	ND	ND F1	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	-0.189 U	0.146 U	0.395 U	0.543 U	0.346 U	0.409 U	-0.190 U	0.213 U	0.123 U
Selenium	mg/L	0.05	N/A	0.00082	ND	<0.0013 (0.0011 J)	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	0.00	N/A	0.00046	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
N/A = not applicable for the constituent.
-- '= not applicable
DUP-8 is a duplicate sample collected from MW-D7.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.556 pCi/L for MW-U1, 0.550 pCi/L for MW-U2, 0.516 pCi/L for MW-D4, 0.549 pCi/L for MW-D5, 0.542 pCi/L for MW-D6, 0.528 pCi/L for MW-D7, 0.484 pCi/L for MW-D8, 0.628 pCi/L for MW-D9, and 0.555 pCi/L
F1 = Matrix spike and matrix spike duplicate (MS and/or MSD) recovery exceeds control limits.

Table 4i. Analytical Data Summary – Background Groundwater Sampling Event #9 (Sampling Performed on 17-18 October 2023)
Crisp County Power Commission
Plant Crisp Secondary Ash Areas

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5		MW-D6	MW-D7	MW-D8	MW-D9
								MW-D5	DUP-9				
Boron	mg/L	N/A	N/A	0.0290	0.34	<0.050 (0.038 J)	0.065	0.065	0.063	0.068	0.09	0.11	0.055
Calcium	mg/L	N/A	N/A	0.13	36	25	47	45	45	34	70	83	57
Chloride	mg/L	N/A	N/A	1.4	<2.0 (1.9 J)	2.0	<2.0 (1.9 J)	7	7.3	4.7	4.0	6.4	2.3
Fluoride	mg/L	4	N/A	0.070	<0.1 (0.079 J)	0.12	0.13	ND	ND	0.11	<0.10 (0.075 J)	ND	<0.10 (0.085 J)
Sulfate	mg/L	N/A	N/A	1.4	<5.0 (2.0 J)	17	ND	<5.0 (2.1 J)	<5.0 (1.9 J)	<5.0 (2.4 J)	<5.0 (4.1 J)	60	<5.0 (2.2 J)
pH[3]	SU	N/A	N/A	--	8.1	8.56	8.23	7.31	7.31	8.82	7.81	7.60	8.18
Total Dissolved Solids	mg/L	N/A	N/A	5.0	110 H	98	150	170	180	120	220	260	160

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

Constituent	Unit	MCL[1]	CCR-Rule Specified[4]	MDL[2]	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4	MW-D5		MW-D6	MW-D7	MW-D8	MW-D9
								MW-D5	DUP-9				
Antimony	mg/L	0.006	N/A	0.0005	NA	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	NA	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00180	0.0038	0.011 F1	0.022	0.029	0.029	0.0092	0.081	0.056	0.038
Beryllium	mg/L	0.004	N/A	0.00028	NA	ND	ND	<0.002 (0.00028 J)	<0.002 (0.00034 J)	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.00065	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[5]	N/A	0.0021	<0.0025 (0.0022 J)	0.0063	0.011	0.026	ND^3+	0.039	ND	ND	ND ^3+
Cobalt	mg/L	N/A	0.006	0.00056	<0.0025 (0.0013 J)	ND	ND	ND	ND	ND	<0.0025 (0.00067 J)	ND	ND
Fluoride	mg/L	4	N/A	0.07000	<0.10 (0.079 J)	0.12	0.13	ND	ND	0.11	<0.1 (0.075 J)	ND	<0.10 (0.085 J)
Lead	mg/L	0.015[6]	N/A	0.00081	NA	ND	ND	ND	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[7]	N/A	0.00015	NA	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.00046	<0.01 (0.0011 J)	ND	ND	ND	ND	ND	ND	<0.01 (0.00046 J)	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[8]	0.576 U	1.09	1.29	0.761	0.445 U	1.43	0.689	0.773	0.614
Selenium	mg/L	0.05	N/A	0.00082	ND	ND F1	<0.0 25 (0.0017J)	ND^+	ND	ND	ND	ND	ND
Thallium	mg/L	0.00	N/A	0.00011	NA	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

MCL = Maximum Contaminant Level
MDL = Method Detection Limit
mg/L = milligrams per liter.
S.U. = Standard Unit.
pCi/L = picocuries per liter.
ND = the constituent was not detected above the analytical MDL.
NA = the constituent was not analyzed during the October 2023 monitoring event.
N/A = not applicable for the constituent.
-- '= not applicable
DUP-9 is a duplicate sample collected from MW-D5.
J = concentration 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 blank and sample.
U = Result is less than the sample detection limit.
[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.
[4]: 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.
[5]: MCL value for total chromium.
[6]: Lead Treatment Technology Action Level is 0.015 mg/L.
[7]: Value for inorganic mercury.
[8]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.702 pCi/L for MW-U1, 0.654 pCi/L for MW-U2, 0.576 pCi/L for MW-D4, 0.550 pCi/L for MW-D5, 0.477 pCi/L for MW-D6, 0.448 pCi/L for MW-D7, 0.511 pCi/L for MW-D8, 0.516 pCi/L for MW-D9, and 0.513 pCi/L for DUP-9.
^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
H = Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
F1 = Matrix spike and matrix spike duplicate (MS and/or MSD) recovery exceeds control limits.
^3+ = Reporting limit check standard is outside acceptance limits, high biased

Table 5. Evaluation of SSIs for Appendix III Constituents for Secondary Ash Areas

Crisp County Power Commission
Plant Crisp Secondary Ash Areas

Appendix III to Part 257 Constituents for Detection Monitoring	Prediction Limit[1]	Secondary Ash Area Wells with SSI (October 2023 Monitoring)
Boron (mg/L)	0.34	None
Calcium (mg/L)	42.56	MW-D4, MW-D5, MW-D7, MW-D8, and MW-D9
Chloride (mg/L)	9.833	None
Field pH (SU)	<6.066 or >9.01	None
Fluoride (mg/L)	0.45	None
Sulfate (mg/L)	120	None
Total Dissolved Solids (TDS) (mg/L)	187.1	MW-D7 and MW-D8

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 wells MW-U1 and MW-U2 between July 2022 and October 2023. The October 2023 measurements in the downgradient wells were compared with the prediction limit values.

FIGURES

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

Legend

- Monitoring Well (Secondary Ash Areas)
- Ash Pond Approximate Boundary
- Secondary Ash Areas Approximate Boundary
- Approximate CCPC Property Boundary

0 250 500 1,000 Feet

Groundwater Monitoring Well Location Map

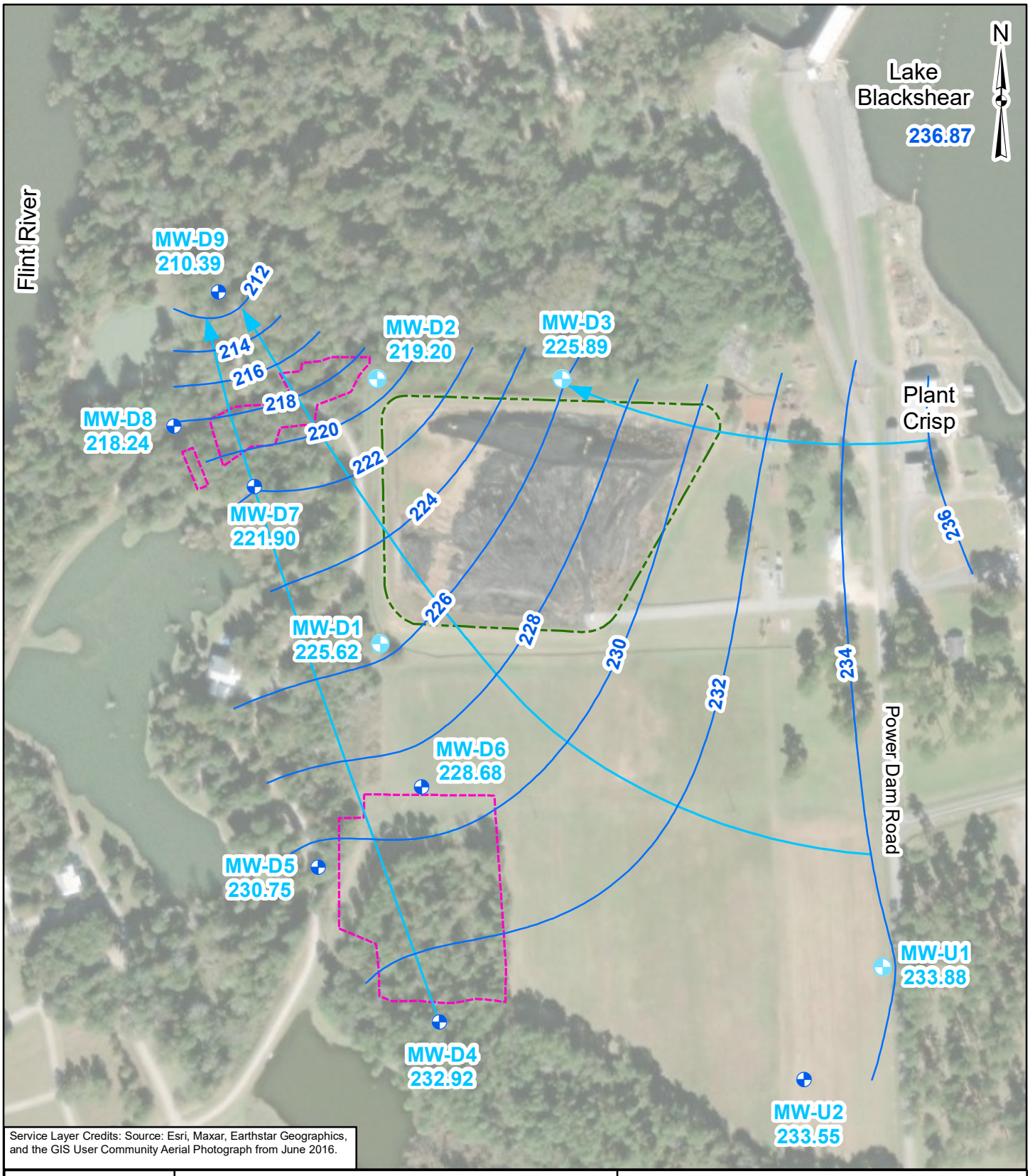
Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants

KENNESAW, GA

DATE:	JANUARY 2024
PROJECT NO.	GW6152
DOCUMENT NO.	GA 230483
FILE NO.	FIGURE 1 GROUNDWATER MONITORING WELL LOCATION MAP.MXD
FIGURE NO.	1

\\Aro-01\prj1$\Crisp County\GIS\MXD\2023\Sem1_Annual_Monitoring_Report\GW Monitoring Well Location Map- SAA.mxd 12/15/2023 3:10:16 PM DY



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

DAWIT D. YIFRU
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 001965
01/29/2024

Legend

- Monitoring Well (Ash Pond)
- Monitoring Well (Secondary Ash Areas)
- Groundwater Elevation Contour - 17 October 2023 (ft, MSL)
- Groundwater Flow Direction
- Secondary Ash Areas Approximate Boundary
- Ash Pond Approximate Boundary

0 150 300 Feet

Potentiometric Surface Map (17 October 2023)

Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants
KENNESAW, GA

DATE:	JANUARY 2024
PROJECT NO.	GW6152
DOCUMENT NO.	GA 230483
FILE NO.	OCTOBER 2023 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	3

\\Aro-01\prj1$\Crisp County\GIS\MXD\2023\Semi_Annual_Monitoring_Report\October 2023 Potentiometric Surface Map SAA.mxd 12/15/2023 3:15:24 PM DY

APPENDIX A

Field Groundwater Sampling Forms

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-D4	SAMPLE ID: MW-D4
	DATE: 7/27/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet	STATIC DEPTH TO WATER (feet): 12.97'	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) = (29.469 feet – 12.97 feet) X 0.16 gallons/foot = 27.82 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) + 0.2245 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 12:45	PURGING ENDED AT: 14:15	TOTAL VOLUME PURGED (gallons): 5.224 4.86 AN

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm) mL/min	DEPTH TO WATER (feet)	pH (standard units) +/- 0.1	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm +/- 5%	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1:05	1	1	200	15.56	7.90	21.57	0.248	0.76	5.62	74	Clear
1:10	0.26	1.26	200	15.74	7.96	22.44	0.274	0.53	5.02	1	Clear
1:15	0.26	1.52	200	16.03	7.95	20.76	0.277	0.59	3.45	-11	Clear
1:20	0.26	1.78	200	16.16	7.92	20.58	0.279	0.06	2.90	-4	Clear

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: Dawson Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1:25	SAMPLING ENDED AT: 2:15
PUMP OR TUBING DEPTH IN WELL (feet): 18	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.96	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.94	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.97	6020, 7470A	APP	250

13:39
13:46
13:50

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ___✓___ No — *Dup
2. Well Access: Clear / Good Access
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)

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.

MW-D4 (Dup) 1.9L @ 14:04
1.0L @ 14:12
0.25L @ 14:15

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-DS	SAMPLE ID: MW-DS	DATE: 7/27/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 27.75 feet to 37.75 feet	STATIC DEPTH TO WATER (feet): 9.94	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) = (36.11 feet – 9.94 feet) X 0.16 gallons/foot = 4.1872 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) + 850 mL 0.2245 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31	PURGING INITIATED AT: 15:00	PURGING ENDED AT: 16:30	TOTAL VOLUME PURGED (gallons): 4.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (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)
15:20	[illegible]	1	200	10.39	7.65	25.51	0.256	8.49	3.20	218	Clear
15:25	0.26	1.26	200	10.41	7.74	28.61	0.234	7.27	2.94	226	Clear
15:30	0.26	1.52	200	10.41	7.73	28.86	0.234	7.05	3.29	233	Clear
15:35	0.26	1.78	200	10.41	7.73	29.17	0.232	6.85	3.75	236	Clear
15:40	0.26	2.04	200	10.39	7.80	29.32	0.231	6.73	4.59	237	Clear
15:45	0.26	2.30	200	10.40	7.82	29.60	0.230	6.53	4.77	240	Clear
15:50	0.26	2.56	200	10.40	7.83	30.02	0.227	6.21	4.72	242	Clear
15:55	0.26	2.82	200	10.39	7.76	31.20	0.226	6.00	4.93	244	Clear
16:00	0.26	3.08	200	10.39	7.77	31.65	0.225	5.84	5.27	245	Clear
16:05	0.26	3.34	200	10.40	7.76	32.10	0.224	5.61	4.21	246	Clear

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:50	SAMPLING ENDED AT: 16:30
PUMP OR TUBING DEPTH IN WELL (feet): 31	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)						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
	1	HDPE	1.9L	HNO3	----	7.79	9315, 9320, Ra226, Ra228	APP	250	16:19
	1	HDPE	1.0L	NONE	----	7.460	SM4500, 2540C	APP	250	16:25
	1	HDPE	0.25L	HNO3	----	7.60	6020, 7470A	APP	250	16:30

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D6	SAMPLE ID: MW-D6	DATE: 7/27/2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 23.80	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 feet – 23.8 feet) X 0.16 gallons/foot = 2.112 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): 29.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.25	PURGING INITIATED AT: 15:09	PURGING ENDED AT: 16:01	TOTAL VOLUME PURGED (gallons): 3.56

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
15:34	1	1	180	23.84	8.8	28.7	0.175	11.37	1.05	194	clear
15:34	0.48	1.48	"	"	8.79	28.06	0.169	6.08	0.98	206	"
15:39	0.25	1.73	190	"	8.85	27.27	0.17	5.86	0.94	209	"
15:44	0.25	1.98	"	"	8.85	27.40	0.168	5.29	0.99	212	"
15:49	"	2.23	"	"	8.79	27.70	0.166	5.98	0.95	209	"
15:54	"	2.48	"	"	8.84	26.75	0.169	5.88	0.72	206	"
16:59	"	2.73	"	"	8.78	26.77	0.167	5.78	0.78	219	"

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: Tristan Orndorff/Geo	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT: 16:01	SAMPLING ENDED AT: 16:18
PUMP OR TUBING DEPTH IN WELL (feet): 29.25	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

16:01 ↓

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: easy
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D7	SAMPLE ID: MW-D7	DATE: 7/28/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 14.15 feet to 24.15 feet	STATIC DEPTH TO WATER (feet): 9.1	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) = (27.07 feet – 9.1 feet) X 0.16 gallons/foot = 2.88 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 10:48	PURGING ENDED AT: 11:40	TOTAL VOLUME PURGED (gallons): 3.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ML/MIN 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)
10:58	1	1	170	10.91	8.33	27.01	0.245	0.45	2.93	-68	clear
11:03	0.22	1.22	"	11.33	8.35	26.52	0.246	3.81	3.17	-72	"
11:08	0.19	1.41	150	11.64	8.35	26.54	0.247	5.55	2.18	-73	"
11:13	↓	1.60	"	11.79	8.32	26.45	0.248	3.19	2.03	-73	"
11:18		1.79	"	11.85	8.34	26.12	0.248	2.43	1.29	-76	"
11:23		1.98	"	11.93	8.36	25.94	0.247	2.30	0.96	-80	"
11:28		2.17	"	11.97	8.36	26.00	0.246	2.16	0.72	-82	"
11:33		2.36	"	11.98	8.37	26.01	0.247	2.39	1.00	-83	"
11:38	↓	2.55	"	12.00	8.37	26.11	0.246	2.16	0.92	-83	"

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: Tristan Orndorff / Geo	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT: 11:40	SAMPLING ENDED AT: 12:02
PUMP OR TUBING DEPTH IN WELL (feet): 21	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: good
3. Sampling & Purging Equipment Condition: clean
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D8	SAMPLE ID: MW-D8	DATE: 7/28/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 14.5 feet to 24.5 feet	STATIC DEPTH TO WATER (feet): 4.94	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) = (27.73 feet – 4.94 feet) X 0.16 gallons/foot = 4.59 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) + 0.2245 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23	PURGING INITIATED AT: 8:16	PURGING ENDED AT: 9:37	TOTAL VOLUME PURGED (gallons): 3.91

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (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)
8:35	1	1	200	11.29	7.66	22.80	0.356	0.43	1.56	-24	Clear
8:40	0.26	1.26	200	11.41	7.71	22.56	0.352	0.49	2.15	-20	Clear
8:45	0.26	1.52	200	12.20	7.76	22.37	0.361	0.38	2.89	-10	Clear
8:50	0.26	1.78	200	12.43	7.72	22.12	0.364	0.43	1.54	5	Clear
8:55	0.26	2.04	200	12.74	7.76	21.86	0.370	0.61	0.91	-4	Clear
9:00	0.26	2.30	200	12.80	7.78	21.69	0.373	0.69	0.83	-23	Clear
9:05	0.26	2.56	200	12.96	7.80	21.69	0.371	0.65	0.27	-16	Clear
9:10	0.26	2.82	200	13.02	7.81	21.61	0.340	0.60	0.74	-10	Clear
9:15	0.26	3.08	200	13.07	7.77	21.46	0.342	0.64	0.76	-6	Clear

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:18	SAMPLING ENDED AT: 9:37
PUMP OR TUBING DEPTH IN WELL (feet): 23	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.82	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.74	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.71	6020, 7470A	APP	250

9:25
9:35
9:35

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 7/28/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 14.55 feet to 24.55 feet	STATIC DEPTH TO WATER (feet): 9.84	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) = (27.29 feet – 9.84 feet) X **0.16** gallons/foot = 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 8:34	PURGING ENDED AT: 9:50	TOTAL VOLUME PURGED (gallons): 4.37

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)
8:45	1	1	180	12.41	8.24	24.29	.222	1.09	2.07	-109	clear
8:50	.24	1.24	160	13.24	8.37	24.09	0.216	1.21	2.72	-114	"
8:56	0.25	1.49	150	14.34	8.4	24.17	0.214	1.22	1.42	-117	"
9:02	0.24	1.73	"	15.2	8.44	24.23	0.22	1.06	1.60	-117	"
9:08	0.24	1.97	"	15.75	8.37	24.2	0.219	1.22	1.65	-109	"
9:14	0.24	2.21	"	16.32	8.41	24.16	0.213	0.95	1.46	-107	"
9:19	.19	2.40	"	16.77	8.42	24.23	0.212	0.96	1.48	-107	"
9:24	.19	2.59	"	17.24	8.42	24.39	0.213	0.70	1.34	-101	"
9:29	.19	2.78	140	17.32	8.44	24.27	0.211	0.57	1.18	-99	"
9:34	.19	2.97	"	17.38	8.38	24.28	0.213	0.30	1.36	-106	"

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: Tristan Orndorff / Geo	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 22	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: easy
3. Sampling & Purging Equipment Condition: _____
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9 cont.	SAMPLE ID: MW-D9	DATE: 7/28/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 14.55 feet to 24.55 feet	STATIC DEPTH TO WATER (feet): 9.84	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) = (27.29 feet – 9.84 feet) X 0.16 gallons/foot AN = ~~2.79~~ 2.79 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 8:34	PURGING ENDED AT: 9:50	TOTAL VOLUME PURGED (gallons): AN ~~2.21~~ 4.37

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)
9:39	.79	3.76	140	17.53	8.39	24.16	0.213	0.25	1.22	-94	"
9:44	.19	~~1.19~~ 3.95 AN	"	17.74	8.41	24.12	0.211	0.24	1.28	-88	"
9:49	.19	~~1.38~~ 3.54 AN	"	17.92	8.47	24.00	0.211	0.32	1.23	-90	"

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:	SAMPLER(S) SIGNATURE(S): TRAM Rudolph	SAMPLING INITIATED AT: 9:50	SAMPLING ENDED AT: 10:15
PUMP OR TUBING DEPTH IN WELL (feet): 22	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: easy
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-U2	SAMPLE ID: MW-U2
DATE: 7/27/2022	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 17.50 feet to 27.50 feet	STATIC DEPTH TO WATER (feet): 14	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) = (30.9 feet – 14 feet) X **0.16** gallons/foot = 2.70 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): 22.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.75	PURGING INITIATED AT: 12:51	PURGING ENDED AT: 13:53	TOTAL VOLUME PURGED (gallons): 3.01

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	mL/min PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	mS/cm COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
13:14	1	1	~~180~~ 200	16.67	8.29	29.74	0.259	1.74	9.47	93	clear
13:20	.29	1.29	180	16.76	8.6	28.99	0.244	0.93	9.16	86	"
13:26	.29	1.58	"	16.82	8.53	28.29	0.244	0.80	8.76	92	"
13:31	.24	1.82	"	16.84	8.52	27.89	0.241	0.60	8.04	96	"
13:36	.24	2.06	"	16.85	8.57	28.29	0.239	0.67	6.8	109	"
13:41	↓	2.30	"	16.86	8.55	28.01	0.235	0.76	6.03	124	"
13:46	↓	2.54	"	"	8.56	27.91	0.233	0.78	4.99	132	"
13:51	↓	2.78	"	16.85	8.55	27.74	0.233	0.91	4.28	143	"

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: Tristan Orndorff	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT: 13:53	SAMPLING ENDED AT: 14:15
PUMP OR TUBING DEPTH IN WELL (feet): 22.75	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: easy
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)

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.

Monitoring Well ID	Total Well Depth (ft btoc)	Depth to Water (ft btoc) 07/08/2022	10/19/22	Time
MW-U1	33.75	14.59	14.62	1041 ~~1044~~
MW-U2	27.75	14.03	14.24	1049
MW-D1	19.50	16.35	16.34	1108
MW-D2	19.75	15.66	15.77	1117
MW-D3	19.50	8.99	9.45	1148
MW-D4	27.25	13.00	13.46	1054
MW-D5	33.00	9.94	10.41	1103
MW-D6	34.25	23.85	24.03	1059
MW-D7	24.40	9.22	9.29 ~~9.14~~	1129 ~~1124~~
MW-D8	25.00	9.34	9.14	1124
MW-D9	24.80	10.63	10.49	1134

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-DS	SAMPLE ID: MW-DS	DATE: 01/19/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.44	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) = (35.98 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 16.45	PURGING ENDED AT: 17.53	TOTAL VOLUME PURGED (gallons):

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)
16.58	0.2	0.5	150	10.74	6.83	19.10	0.194	4.57	1.28	286	Clear
17.03	0.2	0.7	150	10.74	6.97	18.9	0.195	4.03	1.98	288	
17.08	0.2	0.9	150	10.76	7.07	18.82	0.197	3.75	1.58	296	
17.13	0.2	1.1	150	10.77	7.09	18.76	0.199	3.61	1.73	305	
17.18	0.2	1.3	150	10.75	7.11	18.70	0.201	3.54	1.76	311	
17.23	0.2	1.5	150	10.75	7.10	18.69	0.202	3.44	1.98	316	
			DG								

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: Derya Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 17.25	SAMPLING ENDED AT: 17.53
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-U2	SAMPLE ID: MW-U2	DATE: 10/20/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.28	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) = (30.89 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 7.40	PURGING ENDED AT: 8.55	TOTAL VOLUME PURGED (gallons):

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
~~7.55~~	~~0.2~~	~~0.5~~	150		~~6.96~~	~~7.06~~	0		~~10.90~~	~~338~~	clear
~~8.05~~	0.2	0.5	150	16.68	7.68	12.34	0.190	4.52	11.44	283	
8.10	0.2	0.7	150	16.79	7.83	14.34	0.191	3.99	6.77	283	
8.15	0.2	0.9	150	16.92	7.83	15.20	0.194	3.46	5.87	285	
8.20	0.2	1.1	150	16.94	7.81	15.41	0.194	3.15	5.65	287	
8.25	0.2	1.3	150	16.99	7.77	15.39	0.194	3.35	6.23	291	
8.30	0.2	1.5	150	17.01	7.77	15.52	0.194	3.31	~~7.82~~	292	
				DG							

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: Derya Gerc	SAMPLER(S) SIGNATURE(S): DG	SAMPLING INITIATED AT: 8.32	SAMPLING ENDED AT: 8.55
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME	SITE LOCATION	
CRISP COUNTY POWER COMMISSION	961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 10/20/22

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		13.49	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29.83 feet − feet) X 0.16 gallons/foot = 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)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT: 10 20	PURGING ENDED AT: 11.25	TOTAL VOLUME PURGED (gallons)

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
10.30	0.3	0.5	225	16.01	7.39	17.28	0.242	2.88	2.65	149	Clear
10.35	0.3	0.8	225	16.40	7.41	17.26	0.243	2.25	2.35	141	
10.40	0.3	1.1	225	16.99	7.40	17.20	0.245	1.46	1.81	128	
10.45	0.3	1.4	225	17.44	7.40	17.08	0.243	1.36	2.20	97	
10.50	0.3	1.7	225	17.79	7.40	17.13	0.239	1.10	1.50	35	
10.55	0.3	2.0	225	18.12	7.44	17.06	0.229	1.04	2.57	-2	
11.00	0.3	2.3	225	18.30	7.46	16.99	0.223	1.05	2.15	-12	
11.05	0.3	2.6	225	18.48	7.45	17.05	0.218	1.16	2.36	-9	
			DC								

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT: 11.08	SAMPLING ENDED AT: 11.25
Derya Genc			

PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: 1 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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D2	SAMPLE ID: MW-D2	DATE: 10/20/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 15.77	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) = (22.55 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 13.10	PURGING ENDED AT: 13.53	TOTAL VOLUME PURGED (gallons):

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
13.20	0.3	0.5	220	16.21	6.77	21.00	0.557	0.26	0.41	220	clear
13.25	0.3	0.8	220	16.42	6.74	21.11	0.562	0.12	0.54	195	↓
13.30	0.3	1.1	220	16.59	6.74	21.15	0.568	0.06	0.48	191	
13.35	0.3	1.4	220	16.73	6.75	21.09	0.570	0.01	0.36	188	
				DG							

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: Derya Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13.36	SAMPLING ENDED AT: 13.53
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D7	SAMPLE ID: MW-D7	DATE: 10/20/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.29	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) = (26.97 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15.00	PURGING ENDED AT: 16.10	TOTAL VOLUME PURGED (gallons):

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 mS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
15.10	0.3	0.5	225	11.39	7.51	25.65	0.240	2.64	0.70	19	Clear
15.15	0.3	0.8	225	11.75	7.52	25.23	0.241	0.87	0.75	-3	
15.20	0.3	1.1	225	12.21	7.50	24.69	0.243	0.59	0.65	-22	
15.25	0.3	1.4	225	12.48	7.49	24.43	0.246	0.44	0.64	-47	
15.30	0.3	1.7	225	12.68	7.50	24.25	0.247	0.36	0.55	-60	
15.35	0.3	2.0	225	12.90	7.48	24.07	0.250	0.29	0.57	-71	
15.40	0.3	2.3	225	12.88	7.47	23.86	0.252	0.22	0.75	-84	
15.45	0.3	2.6	225	12.89	7.46	23.76	0.255	0.18	0.64	-93	
15.50	0.3	2.9	225	12.89	7.45	23.61	0.257	0.14	0.54	-97	
				DG							

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: Derya Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15.51	SAMPLING ENDED AT: 16.10
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 10/19/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.67	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) = (37.34 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12PM	PURGING ENDED AT: 1PM	TOTAL VOLUME PURGED (gallons):

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or %saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
12:15	0.2	0.5	150	15.05	7.99	20.42	0.206	6.34	1.86	331	Clear
12:20	0.2	0.7	150	15.10	7.95	20.51	0.206	6.53	1.45	338	
12:25	0.2	0.9	150	15.12	7.95	20.54	0.205	6.57	1.17	342	
12:30	0.2	1.1	150	15.12	7.98	20.51	0.205	6.47	0.95	344	

DLC

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:35	SAMPLING ENDED AT: 13:00
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.96	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.94	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.96	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D6	SAMPLE ID: MW-D6	DATE: 10/19/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.04	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) = (34.26 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 13:00	PURGING ENDED AT: 16:20	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
15:35	0.2	1	150	24.09	8.05	20.78	0.204	5.67	11.4	329	Clear
15:40	0.2	1.2	150	24.10	4.05	20.74	0.206	4.84	8.61	331	
15:45	0.2	1.4	150	24.10	4.05	20.74	0.211	4.87	5.48	333	
15:50	0.2	1.6	150	24.11	8.08	20.82	0.215	4.99	3.87	333	

DK

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: Dalton Kegley / GeoSyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:55	SAMPLING ENDED AT: 16:20
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	8.08	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.04	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.06	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

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
DATE	10/20/22		

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		9.51	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (22.84 feet – 9.51 feet) X 0.16 gallons/foot = 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) + 10:25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
		9:20	~~9:20~~	~~1.825~~

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
9:25	0.2	0.4	150	9.51	7.50	18.65	0.474	6.30	2.24	361	Clear
9:30	0.2	0.6	150	10.76	7.36	19.60	0.485	3.89	1.40	364	
9:35	0.2	0.8	150	10.88	7.25	20.14	0.499	1.99	0.87	361	
9:40	0.2	1.0	150	10.92	7.21	20.27	0.515	1.62	1.44	341	
9:45	0.2	1.2	150	10.97	7.22	20.44	0.524	0.72	0.760	322	
9:50	0.2	1.4	150	10.97	7.22	20.53	0.529	0.46	1.23	308	
9:55	0.2	1.6	150	10.97	7.23	20.60	0.534	0.45	1.17	297	
10:00	0.2	1.8	150	10.99	7.23	20.66	0.537	0.35	1.29	291	↓
		DK									

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
Dalton Kegley / Geosyntec		10:05	10:25

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE	FIELD-FILTERED Y (N) Filtration Equipment Type	FILTER SIZE ____ µm
	LDPE		

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

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.23	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.23	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.23	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME	CRISP COUNTY POWER COMMISSION	SITE LOCATION	961 Power Dam Road, Warwick, GA 31796
WELL NO	MW-D1	SAMPLE ID	MW-D1	DATE	10/20/22

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		16.32	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (22.46 feet – 16.32 feet) X 0.16 gallons/foot = 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)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
			11:05	

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
11:15	0.33	0.5	250	16.91	7.31	20.87	0.397	3.08	0.65	376	Clear
11:20	0.33	0.83	250	17.12	7.14	21.16	0.410	1.69	0.49	314	
11:25	0.33	1.16	250	17.25	7.18	21.20	0.414	1.24	0.39	310	
11:30	0.33	1.49	250	17.32	7.19	20.85	0.421	3.40	0.42	327	
11:35	0.33	1.82	250	17.39	7.20	20.87	0.424	3.11	0.76	332	
11:40	0.33	2.15	250	17.45	7.20	20.91	0.426	2.71	0.53	348	
11:45	0.33	2.48	250	17.51	7.17	20.85	0.432	5.05	1.15	385	
11:50	0.33	2.81	250	17.55	7.18	20.46	0.433	5.06	1.30	385	
11:55	0.33	3.14	250	17.60	7.19	20.85	0.432	4.93	1.35	343	
			DK								

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
Dalton Kegley / Geosyntec		12 PM	12:30

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE	FIELD-FILTERED Y (N) Filtration Equipment Type	FILTER SIZE ____ µm
	LDPE		

FIELD DECONTAMINATION PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE (Y) N DUP 19

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.19	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.19	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.19	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME	CRISP COUNTY POWER COMMISSION	SITE LOCATION	961 Power Dam Road, Warwick, GA 31796
WELL NO	MW-D8	SAMPLE ID	MW-D8	DATE	10/20/22

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		9.14	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (27.70 feet – 9.14 feet) X 0.16 gallons/foot = 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)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
		13:05	14:45	

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
13:20	0.33	0.5	250	11.51	7.48	19.06	0397	1.09	1.74	313	Clear
13:26	0.33	0.83	250	11.97	7.53	19.17	0.391	2.09	2.57	296	
13:30	0.33	1.16	250	12.30	7.52	19.17	0.396	1.85	1.69	269	
13:35	0.33	1.49	250	12.59	7.52	19.06	0.401	1.15	1.77	203	
13:40	0.33	1.82	250	12.87	7.53	19.02	0.403	1.17	1.47	182	
13:45	0.33	2.15	250	13.00	7.53	18.94	0.404	0.94	1.20	167	
13:50	0.33	2.48	250	13.04	7.54	18.94	0.408	0.66	1.29	150	
13:55	0.33	2.81	250	13.06	7.54	18.97	0.410	0.58	1.12	133	
14:00	0.33	3.14	250	13.15	7.53	18.92	0.411	0.43	1.19	122	
14:05	0.33	3.47	250	13.20	7.53	18.96	0.413	0.41	1.27	114	

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
Dalton Kegley / Geosyntec		14:10	14:45

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE:	FIELD-FILTERED Y (N) Filtration Equipment Type	FILTER SIZE ____ µm
	LDPE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: (Y) N DUP 2

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

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME	SITE LOCATION	
CRISP COUNTY POWER COMMISSION	961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 10/20/22

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		10.44	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet – 10.44 feet) X 0.16 gallons/foot = 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)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
		15:25		

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
15:30	0.33	0.5	250	12.65	7.59	19.35	0.290	0.70	2.14	-141	
15:35	0.33	0.83	250	13.97	7.64	19.55	0.293	0.75	1.71	-133	
15:40	0.33	1.16	250	14.69	7.64	19.84	0.293	2.21	1.82	-106	
15:45	0.33	1.49	250	15.99	7.65	19.63	0.306	1.40	1.77	-153	
15:50	0.33	1.82	250	17.10	7.66	19.65	0.308	0.26	2.04	-163	
15:55	0.33	2.15	250	18.02	7.81	19.35	0.307	4.95	2.14	-114	
16:00	0.33	2.48	250	18.74	7.80	19.29	0.306	5.50	5.32	-126	
16:05	0.33	2.81	250	18.98	7.83	19.18	0.308	5.36	6.03	-126	
16:10	0.33	3.14	250	19.09	7.96	19.13	0.309	5.54	5.84	-130	

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 = Penstaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
Dalton Kegley / Geosyntec		16:15	

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE	FIELD-FILTERED Y (N) Filtration Equipment Type:	FILTER SIZE ____ µm
	LDPE		

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

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

FIELD SAMPLING CONDITIONS:

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 Penstaltic 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.

Monitoring Well ID	Total Well Depth (ft btoc)	Depth to Water (ft btoc) 10/19/2022	Depth to Water (ft btoc) 12/5/22
MW-U1	33.75	14.62	15.61
MW-U2	27.75	14.24	14.94
MW-D1	19.50	16.34	15.90
MW-D2	19.75	15.77	14.33
MW-D3	19.50	9.45	8.63
MW-D4	27.25	13.46	13.70
MW-D5	33.00	10.41	10.48
MW-D6	34.25	24.03	23.83
MW-D7	24.40	9.29	8.66
MW-D8	25.00	9.14	8.08
MW-D9	24.80	10.49	8.04

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 12/5/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.70	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) = (29.87 feet – 13.70 feet) X 0.16 gallons/foot = 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 14:55	PURGING ENDED AT: 16:25	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
15:00	1.00	1.00	250	16.85	7.43	19.11	0.210	5.10	0.83	88	clear
15:05	1.25	2.25	250	17.16	7.21	19.08	0.209	2.73	0.82	92	clear
15:10	1.25	3.50	250	17.67	7.21	19.04	0.210	2.29	1.02	91	clear
15:15	1.25	4.75	250	18.23	7.21	18.98	0.211	1.83	1.28	84	clear
15:20	1.25	6.00	250	18.70	7.20	18.91	0.210	1.58	1.40	82	clear
15:25	1.25	7.25	250	19.04	7.26	18.86	0.206	1.48	1.15	44	clear
15:30	1.25	8.50	250	19.36	7.30	18.81	0.200	1.70	0.98	35	clear
15:35	1.25	9.75	250	19.64	7.33	18.80	0.197	1.89	0.90	45	clear
15:40	1.25	11.00	250	19.83	7.32	18.78	0.194	1.99	1.32	48	clear
15:45	1.25	12.25	250	19.88	7.37	18.77	0.192	2.20	1.13	64	clear

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: Imgenur Tepcik	SAMPLER(S) SIGNATURE(S): Tepcik	SAMPLING INITIATED AT 16:00	SAMPLING ENDED AT 16:25
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes _____ No
2. Well Access: _____
3. Sampling & Purging Equipment Condition: _____
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 12/5/22

PURGING DATA

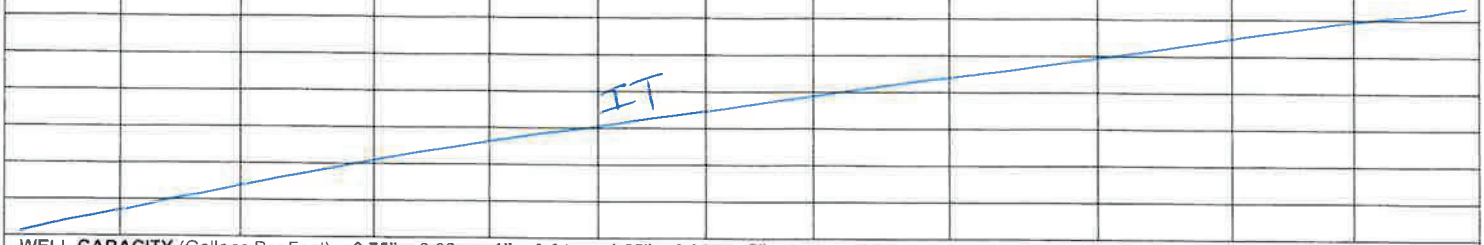
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29.87 feet – 13.70 feet) X 0.16 gallons/foot = 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 14:55	PURGING ENDED AT 16:25	TOTAL VOLUME PURGED (gallons)

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
15:50	1.25	13.50	250	19.88	7.36	18.76	0.191	2.25	1.34	83	clear
15:55	1.25	14.75	250	19.91	7.36	18.76	0.190	2.43	1.24	78	clear
16:00	1.25	16.00	250	19.91	7.35	18.77	0.190	2.44	1.75	76	clear



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

URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Imgenur Tepecik	SAMPLER(S) SIGNATURE(S): Itepecik	SAMPLING INITIATED AT 16:00	SAMPLING ENDED AT 16:25
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.35	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.35	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.35	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-U2	SAMPLE ID: MW-U2	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet): 14.94	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) = (30.92 feet – 14.94 feet) X 0.16 gallons/foot = 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 9:30	PURGING ENDED AT: 12:20	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
9:40	1.00	1.00	200	NA	7.57	22.24	0.191	7.52	5.01	261	clear
9:45	1.00	2.00	200	NA	7.60	22.36	0.188	6.58	6.02	254	clear
9:50	1.00	3.00	200	NA	7.63	22.41	0.186	6.40	12.90	249	clear
9:55	1.00	4.00	200	NA	7.61	22.57	0.184	6.31	25.8	248	clear
10:00	1.00	5.00	200	NA	7.59	22.71	0.185	6.20	33.3	250	cloudy
10:05	1.00	6.00	200	NA	7.62	22.79	0.184	6.21	56.5	249	↓
10:10	1.00	7.00	200	NA	7.61	22.83	0.185	6.01	73.1	248	
10:15	1.00	8.00	200	NA	7.61	22.82	0.181	6.14	80.5	247	
10:20	1.00	9.00	200	NA	7.59	22.81	0.179	5.99	92.6	247	
10:25	1.00	10.00	200	NA	7.58	22.81	0.178	5.95	88.9	246	

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

URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Imgenur Tepecik	SAMPLER(S) SIGNATURE(S): Tepecik	SAMPLING INITIATED AT: 11:47	SAMPLING ENDED AT: 12:20
PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----		9315, 9320, Ra226, Ra228	APP	~~250~~ 150
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	~~250~~ 150
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	~~250~~ 150

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes _____ No
2. Well Access: _____
3. Sampling & Purging Equipment Condition: _____
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)

AMPLING 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-U2	SAMPLE ID: MW-U2	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.94	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) = (30.92 feet – 14.94 feet) X 0.16 gallons/foot = 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): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 9:30	PURGING ENDED AT: 12:20	TOTAL VOLUME PURGED (gallons):

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)
10:30	1.00	11.00	200	NA	7.60	22.81	0.178	6.03	83.9	246	cloudy
10:35	1.00	12.00	200	NA	7.61	22.80	0.175	6.11	77.9	247	
10:40	1.00	13.00	200	NA	7.62	22.84	0.173	6.06	73.3	247	
10:45	1.00	14.00	200	NA	7.59	22.85	0.173	6.09	75.4	248	
10:50	1.00	15.00	200	NA	7.62	22.87	0.171	6.14	72.4	247	
10:55	1.00	16.00	200	NA	7.64	22.89	0.168	6.06	59.7	246	
11:00	1.00	17.00	200	NA	7.61	22.82	0.169	6.03	52.4	248	
11:05	1.00	18.00	200	NA	7.64	22.82	0.168	5.99	35.8	246	
11:10	1.00	19.00	200	NA	7.62	22.84	0.170	6.07	30.2	248	
11:15	0.75	19.75	150	NA	7.63	22.85	0.170	6.07	22.8	248	clear

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

'URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Imgenur Topcik	SAMPLER(S) SIGNATURE(S): Topcik	SAMPLING INITIATED AT: 11:47	SAMPLING ENDED AT: 12:20
PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----		9315, 9320, Ra226, Ra228	APP	~~250~~ 150
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	~~250~~ 150
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	~~250~~ 150

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes _____ No
2. Well Access: _____
3. Sampling & Purging Equipment Condition: _____
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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-U2	SAMPLE ID: MW-U2	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.94	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) = (30.92 feet – 14.94 feet) X 0.16 gallons/foot = 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) 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 9:30	PURGING ENDED AT: 12:20	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL VOLUME PURGED (~~gallons~~) L	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)
11:20	0.75	20.50	150	NA	7.63	22.87	0.171	6.15	17.3	248	clear
11:25	0.75	21.25	150	NA	7.64	22.92	0.169	6.21	14.1	249	
11:30	0.75	22.00	150	NA	7.64	22.93	0.170	6.05	11.9	248	
11:35	0.75	22.75	150	NA	7.65	22.91	0.169	5.96	10.84	249	
11:40	0.75	23.50	150	NA	7.65	22.91	0.167	5.92	11.49	250	
11:45	0.75	24.25	150	NA	7.64	22.98	0.167	5.76	9.98	248	
					IT						

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: Imperur Tepeik	SAMPLER(S) SIGNATURE(S): Tepeik	SAMPLING INITIATED AT: 11:47	SAMPLING ENDED AT: 12:20
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.64	9315, 9320, Ra226, Ra228	APP	250 150
	1	HDPE	1.0L	NONE	----	7.64	SM4500, 2540C	APP	250 150
	1	HDPE	0.25L	HNO3	----	7.64	6020, 7470A	APP	250 150

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME	CRISP COUNTY POWER COMMISSION	SITE LOCATION	961 Power Dam Road, Warwick, GA 31796
WELL NO:	MW-D6	SAMPLE ID: MW-D6	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	23.83	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) = (37.44 feet – 23.83 feet) X 0.16 gallons/foot = 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):	29	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	29	PURGING INITIATED AT:	13:36	PURGING ENDED AT:	14:35	TOTAL VOLUME PURGED (gallons)	

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
13:45	1.00	1.00	250	23.90	7.80	23.11	0.131	7.23	0.01	217	clear
13:50	1.25	2.25	250	23.91	7.76	23.02	0.133	6.93	0.01	228	"
13:55	1.25	3.50	250	23.92	7.75	22.90	0.137	6.85	-0.07	232	"
14:00	1.25	4.75	250	23.93	7.75	22.82	0.139	6.67	-0.09	237	"
14:05	1.25	6.00	250	23.94	7.74	22.79	0.140	6.45	-0.13	240	"
14:10	1.25	7.25	250	23.94	7.73	22.75	0.139	6.34	-0.14	244	"
14:15	1.25	8.50	250	23.94	7.71	22.66	0.138	6.28	-0.01	247	"

IT

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:	Imanur Tepecik	SAMPLER(S) SIGNATURE(S):	Tepecik	SAMPLING INITIATED AT:	14:17	SAMPLING ENDED AT:	14:35

PUMP OR TUBING DEPTH IN WELL (feet)		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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.0L~~ 1L	HNO3	----	7.71	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.71	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.71	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

~~195~~ 200

SITE NAME	SITE LOCATION	
CRISP COUNTY POWER COMMISSION	961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-U1	SAMPLE ID: MW-U1	DATE: 12/05/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 15.61	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) = (37.32 feet – 15.61 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: ~~12:15~~ 12:25	PURGING ENDED AT: 1:54	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
12:45	1 L	1L	200	16.04	7.38	22.03	0.139	6.52	0.15	244	clear
12:50	1 L	2L	200	16.11	7.61	22.27	0.137	6.15	0.46	246	clear.
12:55	1 L	3L	200	16.13	7.69	22.23	0.136	6.76	0.33	252	clear
1:00	1 L	4L	200	16.14	7.64	22.33	0.135	6.94	0.18	254	clear
1:05	1L	5L	200	16.15	7.62	22.24	0.135	5.82	0.06	256	clear.
1:10	1L	6L	200	16.16	7.76	22.25	0.134	5.82	0.11	262	clear.
1:15	1L	7L	200	16.16	7.66	22.25	0.134	5.78	0.07	271	clear
1:20	1L	8L	200	16.17	7.65	22.23	0.133	7.57	0.42	259	clear.
1:25	1L	9L	200	16.17	7.69	22.28	0.133	7.47	0.09	263	clear
1:30	1L	10L	200	16.17	7.66	22.25	0.132	7.40	0.10	268	clear.

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT: 1:32	SAMPLING ENDED AT: 1:54
Patricia Carcamo			

PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.66	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	7.66	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	7.66	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D5	SAMPLE ID: MW-D5	DATE: 12/05/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.48	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) = (36.03 feet – 10.48 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 2:52	PURGING ENDED AT: 15:54	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
3:10	1L	1L	200	11.07	7.16	21.02	0.181	6.46	3.16	288	Clear
3:15	1L	2L	200	11.05	7.18	20.96	0.182	5.75	1.10	291	Clear
3:20	1L	3L	200	11.05	7.10	20.92	0.182	5.61	0.64	288	Clear
3:25	1L	4L	200	11.06	7.17	20.89	0.182	5.58	0.43	288	Clear
3:30	1L	5L	200	11.06	7.13	20.89	0.183	5.48	0.35	289	Clear
					PC						

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: Patricia Corcoran	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:33	SAMPLING ENDED AT: 15:54
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.13	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	7.13	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	7.13	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 12/06/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.04	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) = (27.24 feet – 8.04 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:20	PURGING ENDED AT: 11:52	TOTAL VOLUME PURGED (gallons)

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)
9:35	1L	1L	200	11.32	8.54	19.02	0.218	4.59	3.51	48	clear
9:40	1L	2L	200	12.51	7.88	19.07	0.218	1.23	3.50	24	clear.
9:45	1L	3L	200	13.65	7.82	19.14	0.218	0.96	3.49	-7	clear.
9:50	1L	4L	200	14.93	8.06	19.18	0.218	0.95	3.56	-13	clear
9:55	1L	5L	200	15.36	8.07	19.26	0.218	0.97	2.82	-38	clear
10:00	1L	6L	200	16.29	8.28	19.36	0.218	[illegible] 1.18	[illegible] 2.92	-57	clear
10:05	1L	7L	200	16.98	8.38	19.43	0.217	1.73	2.36	-70	clear
10:10	1L	8L	200	17.09	8.43	19.55	0.216	3.42	1.84	-60	clear
~~10:15~~	~~1L~~	~~9L~~	~~200~~		DRY.	WATED		30 MIN.			
~~10:20~~	~~1L~~	~~10L~~	~~200~~								

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: Patricia Corcoran	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:52
PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	8.43	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	8.43	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	8.43	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME	SITE LOCATION	
CRISP COUNTY POWER COMMISSION	961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-09	DATE: 12/06/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.04	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) = (feet – 8.04 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:52	PURGING ENDED AT 11:52	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
10:55	1L	1L	200	14.67	7.30	20.48	0.001	10.57	1.25	40	clear
11:00	1L	2L	200	15.07	7.44	20.49	0.001	6.14	2.17	16	clear
11:05	1L	2L	200								

Samples were taken.

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:52
Patricia Carcamo			

PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.44	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.44	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.44	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D8	SAMPLE ID: MW-D8	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet): 8.08	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) = (27.64 feet – 8.08 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:58	PURGING ENDED AT 14:31	TOTAL VOLUME PURGED (gallons)

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)
13:10	1L	1L	200	10.19	7.54	19.53	0.299	2.31	1.26	280	clear
13:15	1L	2L	200	10.80	7.62	19.44	0.300	2.05	1.05	295	clear
13:20	1L	3L	200	11.25	7.60	19.57	0.299	[illegible]	[illegible]	293	clear.
13:25	1L	4L	200	11.61	7.61	19.52	0.299	1.65	1.41	258	clear
13:30	1L	5L	200	11.87	7.62	19.51	0.298	1.41	1.42	207	clear
13:35	1L	6L	200	12.06	7.64	19.52	0.298	1.26	0.94	172	clear
13:40	1L	7L	200	12.22	7.64	19.47	0.298	1.13	0.95	143	clear
13:45	1L	8L	200	12.32	7.62	19.63	0.297	0.85	0.91	129	clear
13:50	1L	9L	200	12.43	7.62	19.45	0.298	1.00	0.92	109	clear
13:55	1L	10L	200	12.52	7.66	19.56	0.298	1.05	0.95	105	clear

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: Patricia Corcoran	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT 14:12	SAMPLING ENDED AT: 14:31
PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.62	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	7.62	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	7.62	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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

D8 continue

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D8	SAMPLE ID: MW-D8	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.08	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) = (27.64 feet – 8.08 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:58	PURGING ENDED AT 14:31	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
14:00	1L	11L	200	12.57	7.63	19.53	0.298	1.07	0.84	[illegible]85	clear
14:05	1L	12L	200	12.60	7.65	19.61	0.298	1.03	0.86	88	clear
14:10	1L	13L	200	12.63	7.62	19.61	0.296	1.05	0.59	77	clear

PC

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: Patricia Corcoran	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:12	SAMPLING ENDED AT: 14:31
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.62	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	7.62	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	7.62	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D7	SAMPLE ID: MW-D7	DATE: 12/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.66	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) = (26.98 feet – 8.66 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:02	PURGING ENDED AT: 16:32	TOTAL VOLUME PURGED (gallons):

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)
15:10	1L	1L	200	11.14	7.48	22.02	0.236	2.15	1.02	174	Clear
15:15	1L	2L	200	11.66	7.51	22.11	0.237	1.96	1.08	125	Clear
15:20	1L	3L	200	12.01	7.61	22.20	0.239	1.18	1.17	49	Clear
15:25	1L	4L	200	12.26	7.56	22.28	0.241	0.91	0.99	60	Clear
15:30	1L	5L	200	12.41	7.58	22.28	0.241	1.09	0.92	41	Clear
15:35	1L	6L	200	12.52	7.57	22.31	0.243	1.06	0.90	-18	clear
15:40	1L	7L	200	12.59	7.57	22.27	0.245	1.07	0.76	-37	clear
15:45	1L	8L	200	12.64	7.56	22.30	0.246	1.74	0.79	-64	clear
15:50	1L	9L	200	12.68	7.58	22.25	0.247	0.42	0.72	-74	clear
15:55	1L	10L	200	12.70	7.58	22.23	0.248	2.06	0.68	-78	clear

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: Patricia Carrasco	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:10	SAMPLING ENDED AT: 16:32
PUMP OR TUBING DEPTH IN WELL (feet)	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.61	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	7.61	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	7.61	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME	CRISP COUNTY POWER COMMISSION	SITE LOCATION:	961 Power Dam Road, Warwick, GA 31796
WELL NO:	MW-D7	SAMPLE ID:	MW-D7
DATE:	12/6/22		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.25	WELL SCREEN INTERVAL DEPTH feet to feet		STATIC DEPTH TO WATER (feet)	8.66	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) = (26.98 feet – 8.66 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:02	PURGING ENDED AT 16:32	TOTAL VOLUME PURGED (gallons)

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL VOLUME PURGED ~~(gallons)~~ L	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)
16:00	1L	11L	200	12.72	7.59	22.14	0.250	2.78	0.64	-81	clear
16:05	1L	12L	200	12.73	7.63	22.14	0.249	2.81	0.65	-84	clear
16:10	1L	13L	200	12.73	7.61	22.19	0.250	2.75	0.73	-87	clear

PC

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:	Patricia Corcoran	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 16:10	SAMPLING ENDED AT: 16:32
PUMP OR TUBING DEPTH IN WELL (feet):		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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	HDPE	~~1.9L~~ 1L	HNO3	----	7.61	9315, 9320, Ra226, Ra228	APP	~~250~~ 200
	1	HDPE	1.0L	NONE	----	7.61	SM4500, 2540C	APP	~~250~~ 200
	1	HDPE	0.25L	HNO3	----	7.61	6020, 7470A	APP	~~250~~ 200

FIELD SAMPLING CONDITIONS:

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)

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.

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	Alana Neely
Location:	Warwick, Georgia	**Field Conditions:**	
Date:	1/18/2023		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1	-	249.52	13.08	37.38	236.44	
MW-U2	-	248.79	12.48	30.96	236.31	
MW-D1	-	241.77	15.28	-	226.49	
MW-D2	-	232.66	13.82	-	218.84	
MW-D3	-	233.78	7.85	-	225.93	
MW-D4	-	233.78	12.04	29.85	221.74	
MW-D5	-	241.16	9.22	36.11	231.94	
MW-D6	-	252.63	22.19	37.46	230.44	
MW-D7	-	230.18	7.85	27.02	222.33	
MW-D8	-	226.76	7.43	27.7	219.33	
MW-D9	-	221.42	5.99	22.31	215.43	
END OF DAY WATER LEVELS						
MW-U1	-	249.52	-	-		
MW-u2	-	248.79	-	-		
MW-D1	-	241.77	-	-		
MW-D2	-	232.66	-	-		
MW-D3	-	233.78	-	-		
MW-D4	-	233.78	-	-		
MW-D5	-	241.16	-	-		
MW-D6	-	252.63	-	-		
MW-D7	-	230.18	-	-		
MW-D8	-	226.76	-	-		
MW-D9	-	221.42	-	-		

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-V1	SAMPLE ID: MW-V1	DATE: 1/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.08	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) = (37.38 feet – 13.08 feet) X 0.16 gallons/foot = 3.89 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	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32	PURGING INITIATED AT: 11:15	PURGING ENDED AT: 1210	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	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)
11:25	1	1	250	13.70	8.97	21.26	0.147	9.96	0.49	163	clear
11:30	1.25	2.25	↓	13.75	9.24	21.34	0.145	8.72	0.30	165	↓
11:35	1.25	3.50		13.80	9.31	21.35	0.144	8.49	1.38	173	
11:40	1.25	4.75		13.83	9.36	21.36	0.144	8.21	1.53	177	
11:45	1.25	6.00		13.87	9.37	21.37	0.144	8.11	1.27	180	
11:50	1.25	7.25		13.89	9.43	21.37	0.143	8.14	1.38	182	
										ANV	

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
'BING 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
'URGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alana Neely	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:55	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	9.43	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	9.43	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	9.43	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-12	SAMPLE ID: MW-12	DATE: 11/14/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.48	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) = (30.96 feet – 12.48 feet) X 0.16 gallons/foot = 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): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 12:45	PURGING ENDED AT: 14:07	TOTAL VOLUME PURGED (gallons):

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)
12:55	1	1	200	14.52	7.36	20.93	0.477	3.44	15.9	216	Clear
13:00	1	2	200	14.46	7.54	20.99	0.475	3.72	21.8	213	↓
13:05	1	3	200	15.16	7.59	20.06	0.475	3.60	26.4	213	↓
13:10	1	4	200	15.39	7.61	21.07	0.474	3.40	30.0	213	Cloudy
13:15	1	5	200	15.50	7.62	21.13	0.474	3.44	32.8	213	↓
13:20	1	6	200	15.51	7.62	21.13	0.473	3.50	27.0	213	↓
13:25	1	7	200	15.52	7.63	21.19	0.473	3.35	17.84	211	Clear
13:30	1	8	200	15.54	7.64	21.20	0.469	3.42	12.73	212	↓
13:35	1	9	200	15.59	7.64	21.19	0.465	3.36	11.62	213	↓
13:40	1	10	200	15.60	7.64	21.17	0.462	3.40	9.97	214	↓

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: D. Kegley	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:45	SAMPLING ENDED AT: 14:07
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.64	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.64	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.64	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-DY	SAMPLE ID: MW-DY	DATE: 1/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.04	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) = (29.85 feet − 12.04 feet) X 0.16 gallons/foot = 2.85 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): 24'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24'	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1345	TOTAL VOLUME PURGED (gallons):

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)
1255	1	1	200	14.90	8.18	19.47	0.136	12.40	2.95	209	clear
1300	1.25	2.25	↓	15.45	7.86	19.44	0.135	8.95	3.57	207	↓
1305	1.25	3.50		15.94	7.87	19.50	0.132	8.94	2.30	208	
1310	1.25	4.79		16.44	7.91	19.48	0.132	8.14	2.01	204	
1315	1.25	6.00		16.76	8.03	19.48	0.132	7.86	1.84	198	
1320	1.25	7.25		17.08	8.09	19.47	0.132	7.46	1.41	194	
1325	1.25	8.50	↓	17.39	8.18	19.51	0.131	7.59	1.16	190	↓
								AN			

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: A. Neely	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	8.18	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	8.18	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	8.18	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-DS	SAMPLE ID: MW-DS	DATE: 11/28/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.22	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) = (36.11 feet − 9.22 feet) X 0.16 gallons/foot = 4.30 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): 31'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31'	PURGING INITIATED AT: 1440	PURGING ENDED AT: 1540	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE mL/min (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)
1450	1	1	250	9.81	8.39	20.15	0.190	8.69	9.35	209	clear
1455	1.25	2.25	↓	9.90	8.40	20.10	0.193	8.67	4.04	212	↓
1500	1.25	3.50		9.92	8.35	20.07	0.190	6.54	3.87	211	
1505	1.25	4.75		9.99	8.32	20.12	0.191	7.81	2.50	213	
1510	1.25	6.00		9.95	8.37	20.19	0.190	5.52	3.01	218	
1515	1.25	7.25		9.97	8.36	20.18	0.190	5.58	2.37	215	
1520	1.25	8.50		9.98	8.31	20.19	0.191	5.42	1.97	219	↓
										AM	

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: A. Neff	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1525	SAMPLING ENDED AT: 1540
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	8.31	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	8.31	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	8.31	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS: ✓

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D6	SAMPLE ID: MW-D6	DATE: 11/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 22.19	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) = (37.46 feet – 22.19 feet) X 0.16 gallons/foot = 2.44 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'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32	PURGING INITIATED AT: 15:20	PURGING ENDED AT: 16:25	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	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)
15:30	1	1	200	22.17	7.91	22.06	0.205	8.70	0.16	206	Clear
15:35	1	2	200	22.17	7.94	21.81	0.206	8.51	0.20	203	
15:40	1	3	200	22.19	7.91	21.71	0.216	8.21	0.12	203	
15:45	1	4	200	22.18	7.90	21.62	0.217	8.04	0.13	203	
15:50	1	5	200	22.18	7.90	21.58	0.216	7.88	0.17	203	
15:55	1	6	200	22.19	7.89	21.53	0.217	7.77	0.12	204	
16:00	1	7	200	22.19	7.88	21.50	0.215	7.47	0.14	205	
16:05	1	8	200	22.20	7.87	21.44	0.214	7.37	0.21	207	
16:10	1	9	200	22.20	7.89	21.41	0.212	7.36		206	
				DC							

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:15	SAMPLING ENDED AT: 16:26
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.89	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.89	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.89	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D7	SAMPLE ID: MW-D7	DATE: 1/19/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.85	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) = (27.02 feet – 7.85 feet) X 0.16 gallons/foot = 3.07 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): 22'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22'	PURGING INITIATED AT: 845	PURGING ENDED AT: 0945	TOTAL VOLUME PURGED (gallons):

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)
0855	1	1	250	10.64	7.26	19.88	.358	3.23	3.50	171	clear
0900	1.25	2.25		11.39	7.32	19.98	.359	1.04	1.59	32	
0905	1.25	3.50		11.60	7.32	20.05	.359	0.89	1.49	-2	
0910	1.25	4.75		11.92	7.32	20.11	.361	0.85	2.23	-22	
0915	1.25	6.00		12.12	7.33	20.21	.357	0.78	1.45	-51	
0920	1.25	7.25		12.21	7.33	20.23	.359	0.72	1.49	-100	
0925	1.25	8.50		12.23	7.33	20.25	.361	0.71	0.89	-79	
											AN

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: A. Neely	SAMPLER(S) SIGNATURE(S): Alana Neely	SAMPLING INITIATED AT: 0930	SAMPLING ENDED AT: 0945
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.33	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.33	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.33	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D8	SAMPLE ID: MW-D8	DATE: 1/19/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.43	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) = (27.70 feet – 7.43 feet) X 0.16 gallons/foot = 3.24 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): 22'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22'	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1115	TOTAL VOLUME PURGED (gallons):

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1040	1	1	250	10.31	7.39	18.19	.424	3.41	1.33	286	
1045	1.25	2.25		10.93	7.39	18.27	.424	2.75	1.30	276	
1050	1.25	3.50		11.35	7.38	18.30	.428	2.69	1.35	267	
1055	1.25	4.75		11.74	7.37	18:46	.424	2.44	1.20	251	
											AN

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: A. Nelly	SAMPLER(S) SIGNATURE(S): Aeena Nelly	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.37	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.37	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.37	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D 9	SAMPLE ID: MW-D9	DATE: 4/19/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.97	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) = (27.31 feet – 5.97 feet) X 0.16 gallons/foot = 2.61 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): 22'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 8:45	PURGING ENDED AT: 10:59	TOTAL VOLUME PURGED (gallons):

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)
9:50	1.25	12.50	250	14.12	4.92	18.62	0.235	0.89	7.58	-170	clear
9:55	1.25	13.75	250	14.15	9.04	18.44	0.235	3.31	5.34	-152	
10:00	1.25	15	250	14.19	8.90	18.83	0.234	3.30	2.64	-138	
10:05	1.25	16.25	250	14.52	8.86	18.89	0.234	1.58	2.34	-147	
10:10	1.25	17.50	250	14.84	8.93	18.99	0.234	0.81	1.02	-154	
10:15	1.25	18.75	250	19.06	8.99	19.09	0.233	0.71	1.68	-160	
10:20	1.25	20	250	19.28	9.04	19.23	0.230	0.63	0.51	-163	
10:25	1.25	21.25	250	19.52	9.08	19.22	0.232	0.56	0.57	-168	
10:30	1.25	22.50	250	19.81	9.09	19.26	0.232	0.56	0.63	-170	

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:35	SAMPLING ENDED AT: 10:59
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	9.09	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	9.09	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	9.09	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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

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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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 11/9/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.97	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) = (27.31 feet – 5.97 feet) X 0.16 gallons/foot = 2.01 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): 22'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22'	PURGING INITIATED AT: 8:45	PURGING ENDED AT: 10:59	TOTAL VOLUME PURGED (gallons):

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)
9:00	1	1	250	6.69	8.44	17.85	0.234	2.17	10.42	-72	Clear
9:05	1.25	2.25	250	10.89	8.64	17.92	0.234	1.67	13.1	-103	
9:10	1.25	3.50	250	12.03	8.69	17.89	0.234	1.33	14.0	-103	
9:15	1.25	4.75	250	13.25	8.68	17.87	0.234	1.16	11.78	-105	
9:20	1.25	6	250	14.69	8.81	17.94	0.234	1.25	9.95	-112	
9:25	1.25	7.25	250	15.49	8.76	17.91	0.234	0.93	8.66	-114	
9:30	1.25	8.50	250	16.58	8.77	18.04	0.234	0.82	8.45	-119	
9:35	1.25	9.75	250	17.40	8.80	18.21	0.234	0.70	5.79	-130	
9:40	1.25	10	250	17.80	8.88	18.41	0.235	0.54	3.02	-142	
9:45	1.25	11.25	250	18.03	8.93	18.60	0.235	0.90	1.98	-172	

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:35	SAMPLING ENDED AT: 10:59
PUMP OR TUBING DEPTH IN WELL (feet): 22'	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	Kendall Bromer + Dalton Kegley
Location:	Warwick, Georgia	**Field Conditions:**	sunny, some clouds, low 80s
Date:	3/1/2023		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1	1054	249.52	9.25	37.38	249.52	
MW-U2	1059	248.79	8.57	30.92	248.79	
MW-D1	1134	241.77	14.29		241.77	
MW-D2	1128	232.66	13.04		232.66	
MW-D3	1146	233.78	7.49		233.78	
MW-D4	1104	233.78	9.39	27.25	233.78	
MW-D5	1111	241.16	7.51	30.11	241.16	
MW-D6	1107	252.63	20.05	37.60	252.63	
MW-D7	1116	230.18	10.79	27.04	230.18	
MW-D8	1118	226.76	10.87	27.08	226.76	
MW-D9	1122	221.42	10.04	27.31	221.42	
END OF DAY WATER LEVELS						
MW-U1		249.52			249.52	
MW-u2		248.79			248.79	
MW-D1		241.77			241.77	
MW-D2		232.66			232.66	
MW-D3		233.78			233.78	
MW-D4		233.78			233.78	
MW-D5		241.16			241.16	
MW-D6		252.63			252.63	
MW-D7		230.18			230.18	
MW-D8		226.76			226.76	
MW-D9		221.42			221.42	

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
DATE: 3/1/2023	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.25	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) = (37.38 feet − 9.25 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1220	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ml/min 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)
1230	1	1	250	9.89	7.79	20.94	155	10.74	0.90	293	clear
1235	1.25	2.25	250	9.91	7.82	20.83	155	10.61	1.18	294	clear
1240	1.25	3.50	250	9.92	7.83	20.83	155	10.39	1.41	293	clear
1245	1.25	4.75	250	9.97	7.84	20.88	154	10.47	1.33	290	clear

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1250	SAMPLING ENDED AT: 1305
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.84	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.84	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.84	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: X Yes _____ No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-U2	SAMPLE ID: MW-U2
DATE: 3/1/2023	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.57	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) = (30.92 feet – 8.57 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1345	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ml/min 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)
1355	1	1	250	10.85	7.01	26.20	107	5.46	1.30	311	clear
1400	1.25	2.25	250	11.12	6.52	26.03	105	4.30	1.72	310	clear
1405	1.25	3.50	250	11.41	6.37	25.84	102	4.00	1.55	307	clear
1410	1.25	4.75	250	11.56	6.46	25.68	105	4.00	1.86	315	clear
1415	1.25	6.00	250	11.68	6.61	25.50	103	4.06	2.11	310	clear
1420	1.25	7.25	250	11.73	6.54	25.43	103	4.10	2.54	311	clear
1425	1.25	8.50	250	11.81	6.58	25.34	99	4.10	1.54	315	clear
						RB					

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: Kendall Brome	SAMPLER(S) SIGNATURE(S): Kendall Brome	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: 1455
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	0.58	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.58	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.58	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: Y Yes ____ No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? ____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 3/1/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.33	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) = (24.25 feet – 9.33 feet) X 0.16 gallons/foot = 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): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 14:10	PURGING ENDED AT: 15:19	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (~~50ml~~ mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
14:20	1	1	200	11.96	7.49	19.38	0.223	1.20	1.37	244	Clear
14:25	1	2	200	12.73	7.40	19.32	0.222	0.12	1.07	245	"
14:30	1	3	200	13.33	7.36	19.31	0.221	0.00	0.97	244	"
14:35	1	4	200	13.84	7.37	19.32	0.221	0.00	1.03	230	"
14:40	1	5	200	14.22	7.43	19.39	0.214	0.00	0.44	164	"
14:45	1	6	200	14.57	7.46	19.60	0.215	0.00	1.06	134	"
14:50	1	7	200	14.84	7.46	19.52	0.213	0.00	0.96	126	"
14:55	1	8	200	15.21	7.49	19.64	0.209	0.00	0.93	119	"
				DK							

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: Dalton Kegley	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:00	SAMPLING ENDED AT: 15:19
PUMP OR TUBING DEPTH IN WELL (feet): 25'	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.49	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.49	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.49	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D5	SAMPLE ID: MW-D5	DATE: 3/1/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.51	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) = (36.11 feet – 7.51 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 16:10	PURGING ENDED AT: 17:15	TOTAL VOLUME PURGED (gallons):

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)
16:20	1	1	250	8.11	6.97	20.00	0.167	4.03	1177	224	Clear
16:25	1	2.25	250	8.18	6.94	19.83	0.164	4.76	2.34	235	
16:30	1	3.50	250	8.21	6.93	19.79	0.169	4.14	1.92	243	
16:35	1	4.75	250	8.21	6.94	19.73	0.169	3.75	2.09	251	
16:40	1	6	250	8.22	6.93	19.71	0.169	3.49	1.80	259	
16:45	1	7.25	250	8.22	6.96	19.70	0.169	3.35	2.37	264	
16:50	1	8.50	250	8.23	6.93	19.71	0.169	3.20	2.06	267	

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: Dalton Kegley	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:55	SAMPLING ENDED AT: 17:15
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	6.93	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.93	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.93	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D10	SAMPLE ID: MW-D10	DATE: 3/1/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 20.65	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) = (37.60 feet - 20.65 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1520	PURGING ENDED AT: 1630	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ml/min 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)
1530	1	1	200	20.72	7.90	27.20	123	4.14	0.84	276	clear
1535	1	2	200	20.73	7.90	26.60	123	3.105	0.83	274	clear
1540	1	3	200	20.74	7.91	26.34	123	3.82	0.86	278	clear
1545	1	4	200	20.74	7.82	26.08	123	3.67	0.99	282	clear
1550	1	5	200	20.73	7.77	25.85	123	3.50	0.72	284	clear
1555	1	10	200	20.72	7.73	25.71	124	3.68	0.64	287	clear

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: Kendall Brome	SAMPLER(S) SIGNATURE(S): Kendall Brome	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1630
PUMP OR TUBING DEPTH IN WELL (feet):	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			
	1	HDPE	1.9L	HNO3	----	7.73	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.73	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.73	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: X Yes _____ No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D7	SAMPLE ID: MW-D7	DATE: 3/2/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.83	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) = (27.04 feet – 10.83 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 815	PURGING ENDED AT: 900	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ml/min 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)
825	1	1	250	9.74	7.47	20.22	138	0.00	0.82	308	clear
830	1.25	2.25	250	10.04	7.50	20.13	119	0.00	1.05	311	clear
835	1.25	3.50	250	10.49	7.47	20.08	117	0.00	0.08	313	clear
840	1.25	4.75	250	10.93	7.47	20.06	121	0.00	0.90	312	clear
						KB					

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: Kendall Brome	SAMPLER(S) SIGNATURE(S): Kendall Brome	SAMPLING INITIATED AT: 845	SAMPLING ENDED AT: 900
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.47	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.47	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.47	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: X Yes _____ No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D8	SAMPLE ID: MW-D8	DATE: 3/2/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 0.85	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) = (27.68 feet – 0.85 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 920	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ml/min 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)
930	1	1	250	9.01	7.58	20.27	252	0.01	0.88	388	clear
935	1.25	2.25	250	10.04	7.50	20.04	252	0.00	0.73	437	clear
940	1.25	3.50	250	10.93	7.48	19.86	254	0.00	0.84	458	clear
945	1.25	4.75	250	11.43	7.44	19.82	254	0.00	0.66	453	clear
950	1.25	6.00	250	11.46	7.39	19.81	255	0.00	0.62	437	clear
955	1.25	7.25	250	11.89	7.32	19.85	256	0.00	0.47	412	clear
1000	1.25	8.50	250	12.17	7.30	19.95	255	0.00	0.87	375	clear
1005	1.25	9.75	250	12.24	7.29	20.00	255	0.00	1.27	345	clear
1010	1.25	11.00	250	12.34	7.27	20.07	254	0.00	1.21	305	clear
1015	1.25	13.25	250	12.42	7.26	20.17	250	0.00	0.83	247	clear

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: Kendall Brome	SAMPLER(S) SIGNATURE(S): Kendall Brome	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.21	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.21	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.21	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: N Yes _____ No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) N 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D8	DATE: 3/2/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.45	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) = (27.64 feet – 6.45 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 920	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	ml/min 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)
1020	1.25	14.50	250	12.49	7.24	20.26	254	0.00	1.12	207	clear
1025	1.25	15.75	250	12.58	7.22	20.42	253	0.00	0.74	158	clear
1030	1.25	17.00	250	12.68	7.14	20.53	253	0.00	0.50	130	clear
1035	1.25	18.25	250	12.66	7.22	20.60	252	0.00	0.34	119	Clear
1040	1.25	19.50	250	12.69	7.21	20.68	252	0.00	0.42	111	clear
						VB					

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: Kendall Brome	SAMPLER(S) SIGNATURE(S): Kendall Brome	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.21	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.21	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.21	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: Y Yes _____ No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 3/2/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.96	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) = (27.31 feet – 5.96 feet) X 0.16 gallons/foot = 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): 24	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24	PURGING INITIATED AT: 8:10	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (~~rpm~~ mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or) % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
8:15	1	1	200	8.49	7.53	17.59	0.246	0.00	2.06	-189	Clear
8:20	1	2	200	9.90	7.55	17.46	0.246	0.00	5.56	-197	
8:25	1	3	200	11.49	7.54	17.43	0.245	0.00	3.82	-199	
8:30	1	4	200	12.39	7.54	17.45	0.245	0.00	3.03	-196	

DK

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: Dalton Kelley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:35	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 24'	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.54	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.54	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.54	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	
Location:	Warwick, Georgia	**Field Conditions:**	
Date:	04 / 26 /2023		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1	1033	249.52	12.1			
MW-U2	1029	248.79	11.24			
MW-D1	9:50	241.77	15.75			
MW-D2	10:00	232.66	12.63			
MW-D3	10:24	233.78	7.83			
MW-D4	10:16	233.78	11.00			
MW-D5	9:56	241.16	8.90			
MW-D6	9:53	252.63	22.5			
MW-D7	10:05	230.18	6.104			
MW-D8	10:08	226.76	6.52			
MW-D9	10:10	221.42	6.95			
END OF DAY WATER LEVELS						
MW-U1		249.52				
MW-u2		248.79				
MW-D1		241.77				
MW-D2		232.66				
MW-D3		233.78				
MW-D4		233.78				
MW-D5		241.16				
MW-D6		252.63				
MW-D7		230.18				
MW-D8		226.76				
MW-D9		221.42				

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	DATE: 4/26/23

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **0.25**	WELL SCREEN INTERVAL DEPTH: 23.75 feet to 33.75 feet	STATIC DEPTH TO WATER (feet): 12.05	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) = (37.3 feet – 12.05 feet) X **0.16** gallons/foot = 4.04 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): 28.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:19	PURGING ENDED AT: 11:52	TOTAL VOLUME PURGED (gallons): 1.04

TIME	VOLUME PURGED ~~(gallons)~~ ml	CUMUL. VOLUME PURGED ~~(gallons)~~ ml	PURGE RATE ~~(gpm)~~ ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. mS/cm (circle units) ~~μmhos/cm or μS/cm~~	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1126	1,120	1,120	160	12.34	7.42	22.06	0.179	4.92	0.92	194	clear
1131	~~[illegible]~~ 800	~~[illegible]~~ 1,920	160	12.60	7.66	21.83	0.177	4.89	0.72	188	clear
1136	500	2,420	100	12.30	7.69	21.84	0.177	4.89	0.87	189	clear
1141	500	2,920	100	12.31	7.77	21.92	0.178	4.92	0.77	191	clear
1146	500	3,420	100	12.31	7.78	22.24	0.177	4.78	0.71	192	clear
1151	500	3920	100	12.32	7.82	22.38	0.177	4.77	0.74	193	clear

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: Elisabeth McDonnell	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 11:52	SAMPLING ENDED AT: 12:19

PUMP OR TUBING DEPTH IN WELL (feet): 28.75	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			
	1	HDPE	1.9L	HNO3	----	7.82	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.82	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.82	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; **RFPP** = 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-D1	SAMPLE ID: MW-D1
DATE: 4/26/23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 9.5 feet to 14.5 feet	STATIC DEPTH TO WATER (feet): 15.75	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) = (22.8 feet – 15.75 feet) X 0.16 gallons/foot = 1.128 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): 14.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:51	PURGING ENDED AT: 13:37	TOTAL VOLUME PURGED (gallons): 2.16

TIME	VOLUME PURGED ~~(gallons)~~ ml	CUMUL. VOLUME PURGED ~~(gallons)~~ ml	ml/min 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)
1300	1890	1890	210	16.15	7.20	21.96	.328	7.89	2.52	190	clear
1305	1050	2940	210	16.15	6.95	22.28	.336	6.43	1.62	199	clear
1310	1050	3990	210	16.15	6.85	22.74	.333	5.99	1.84	203	clear
1315	1050	5040	210	16.14	6.85	22.98	.315	6.12	1.67	203	clear
1320	1050	6090	210	16.15	6.99	23.33	.319	6.04	1.59	196	clear
1325	1050	7140	210	16.15	7.08	23.49	.315	6.16	1.39	191	clear
1330	1050	8190	210	16.15	~~7.08~~ 7.09	23.69	.316	6.11	1.72	189	clear

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: Elisabeth McDonnell	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:33	SAMPLING ENDED AT: 12:20
PUMP OR TUBING DEPTH IN WELL (feet): 14.5	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.09	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.09	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.09	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; **RFPP** = 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.

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-D2	SAMPLE ID: MW-D2
DATE: 4/26/23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 9.75 feet to 9.75 feet	STATIC DEPTH TO WATER (feet): 12.67	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) = (22.55 feet – 12.67 feet) X 0.16 gallons/foot = 1.58 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 15.03 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0008	PURGING ENDED AT: 1651	TOTAL VOLUME PURGED (gallons): 4.33

TIME	VOLUME PURGED (gallons) ~~ml~~	CUMUL. VOLUME PURGED (gallons) ~~ml~~	PURGE RATE ~~ml/min~~ (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	~~mS/cm~~ COND. (circle units) ~~µmhos/cm~~ ~~or µS/cm~~	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1530	5,400	5,400	200	13.70	6.54	20.33	.514	4.69	.99	178	clear
1535	1000	6,400	200	13.87	6.53	20.29	.531	3.77	.64	174	clear
1540	1000	7,400	200	14.00	6.50	20.31	.540	3.12	.49	171	clear
1545	750	8,150	150	14.05	6.56	20.47	.564	2.80	.52	161	clear
1550	750	8,900	150	14.10	6.54	20.45	.568	2.57	.37	156	clear
1555	750	9,650	150	14.15	6.54	20.38	.571	2.03	.42	138	clear
1600	750	10,400	150	14.20	6.54	20.35	.576	1.76	.41	122	clear
1605	600	11,000	120	14.20	6.61	20.05	.597	1.48	.34	85	clear
1610	600	11,600	120	14.20	6.64	20.67	.601	1.31	.39	71	clear
1615	600	12,200	120	14.20	6.65	20.61	.603	1.03	.62	57	clear

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: Elisabetn McDonnell	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1651	SAMPLING ENDED AT: 1717
PUMP OR TUBING DEPTH IN WELL (feet): 14.75	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ✓ Yes _____ No
2. Well Access: walking only – 30 yards off road
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-D2	SAMPLE ID: MW-D2
DATE: 4/26/23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.67	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) = (22.55 feet – 12.67 feet) X 0.16 gallons/foot = 1.58 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): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 4.33

TIME	VOLUME PURGED ~~(gallons)~~ ml	CUMUL. VOLUME PURGED ~~(gallons)~~ ml	ml/min PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	~~µmhos/cm or µS/cm~~ ms/cm COND. (circle units)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1620	600	12,800	~~Purge~~ 120	14.21	6.67	20.58	.605	.93	.39	39	clear
1625	600	13,400	120	14.20	6.68	20.59	.605	.67	.33	29	clear
1630	600	14,000	120	14.20	6.68	20.56	.605	.47	.45	20	clear
1635	600	14,600	120	14.22	6.72	20.55	.605	.24	.39	11	clear
1640	600	15,200	120	14.20	6.71	20.41	.605	.07	.41	8	clear
1645	600	15,800	120	14.20	6.70	20.39	.605	0.00	.41	5	clear
1650	600	16,400	120	14.20	6.78	20.98	.594	0.00	.37	2	

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: Elisabeth McDonnell	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:51	SAMPLING ENDED AT: 17:17
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	6.78	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.78	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.78	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ✓ Yes _____ No
2. Well Access: Walking only – 30 yards off road
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)

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.

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	DATE: 4/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 9.5 feet to 19.5 feet	STATIC DEPTH TO WATER (feet): 7.84	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) = (22.75 feet – 7.84 feet) X 0.16 gallons/foot = 2.39 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): 14.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.5	PURGING INITIATED AT: 0817	PURGING ENDED AT: 0848	TOTAL VOLUME PURGED (gallons): 1.23

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min) (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)
0820	1350	1350	150	8.96	6.41	19.23	0.338	0.98	0.66	360	clear
0831	750	2100	150	9.13	6.45	19.20	0.336	0.82	0.95	358	"
0836	750	2850	150	9.20	6.51	19.14	0.334	0.78	0.55	357	"
0841	750	3600	150	9.24	6.56	19.14	0.332	0.71	0.60	354	"
0846	750	4350	150	9.27	6.56	19.19	0.331	0.68	0.34	351	"
0848	300	4650	150 – grab sample								"

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: Tristan O	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0848	SAMPLING ENDED AT: 0935
PUMP OR TUBING DEPTH IN WELL (feet): 14.5	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	DUP-20

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	<2	9315, 9320, Ra226, Ra228	APP	250 150
	1	HDPE	1.0L	NONE	----	<2	SM4500, 2540C	APP	250 150
	1	HDPE	0.25L	HNO3	----	<2	6020, 7470A	APP	250 150

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; **RFPP** = 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-02	SAMPLE ID: MW-02	DATE: 4/26/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 17.5 feet to 27.5 feet	STATIC DEPTH TO WATER (feet): 11.24	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) = (30.90 feet – 11.24 feet) X 0.16 gallons/foot = 3.14 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): 22.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.75	PURGING INITIATED AT: 13:16	PURGING ENDED AT: 1344	TOTAL VOLUME PURGED (gallons): 1.131

TIME	ML VOLUME PURGED ~~(gallons)~~	CUMUL. VOLUME PURGED ~~(gallons)~~ mL	ML/min PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1322	1200	1200	200	12.13	7.23	24.63	0.119	7.23	1.36	347	clear
1327	700	1900	140	12.47	7.32	23.79	0.119	7.01	1.25	337	"
1332	700	2600	140	12.65	7.51	23.32	0.120	6.95	2.42	336	"
1337	700	3300	140	12.62	7.60	23.05	0.120	7.01	1.28	334	"
1342	700	4000	140	12.62	7.57	23.19	0.119	6.88	0.76	333	"
1344	280	4280	140 → grab		sample						"

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: Tristan Orndorff	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:44	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 22.75	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)						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
	1	HDPE	1.9L	HNO3	----	7.57	9315, 9320, Ra226, Ra228	APP	140	250
	1	HDPE	1.0L	NONE	----	7.57	SM4500, 2540C	APP	140	250
	1	HDPE	0.25L	HNO3	----	7.57	6020, 7470A	APP	140	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; **RFPP** = 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 4/26/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet	STATIC DEPTH TO WATER (feet): 10.95	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) = (29.86 feet – 10.95 feet) X 0.16 gallons/foot = 3.02 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): 22.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.25	PURGING INITIATED AT: 1601	PURGING ENDED AT: 1645	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons) mL	CUMUL. VOLUME PURGED (gallons) mL	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)
1607	1600	1600	200	12.25	7.48	19.55	0.202	3.42	0.98	338	clear
1612	800	2400	160	12.92	7.43	19.99	0.197	3.01	1.17	340	"
1617	800	3200	160	13.37	7.52	19.82	0.199	2.97	1.01	344	"
1622	500	3700	100	13.47	7.35	20.37	0.198	4.87	1.10	345	"
1627	500	4200	100	3.93	7.96	20.04	0.200	9.04	1.33	346	"
1632	500	4700	100	13.57	7.60	19.49	0.203	8.97	0.67	346	"
1637	500	5200	100	13.61	7.63	19.93	0.200	8.46	0.69	346	"
1642	500	5700	100	13.65	7.67	19.75	0.200	8.23	0.69	336	"
1645	300	6000	100	– grab		sample					"

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: Tristan O.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1645	SAMPLING ENDED AT: 1715
PUMP OR TUBING DEPTH IN WELL (feet): 22.25	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	1.67	9315, 9320, Ra226, Ra228	APP	250 100
	1	HDPE	1.0L	NONE	----	7.67	SM4500, 2540C	APP	250 150
	1	HDPE	0.25L	HNO3	----	1.67	6020, 7470A	APP	250 100

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ✓ Yes _____ No
2. Well Access: good
3. Sampling & Purging Equipment Condition: clean
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-DS	SAMPLE ID: MW-DS	DATE: 4/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.63	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) = (36.80 feet – 5.63 feet) X 0.16 gallons/foot = 4.98 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): 28	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 8:16	PURGING ENDED AT: 851	TOTAL VOLUME PURGED (gallons): 1.35

TIME	VOLUME PURGED (gallons)	CUMULATIVE 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)
8205	1350	1350	150	9.65	6.73	19.73	.239	2.77	1.84	212	clear
830	750	2100	150	9.70	6.82	19.54	.231	2.36	1.39	205	clear
835	750	2850	150	9.70	6.85	19.53	.227	2.22	1.54	204	clear
840	750	3600	150	9.73	6.85	19.52	.225	2.11	1.68	206	clear
845	750	4350	150	9.75	6.95	19.52	.223	2.11	1.33	208	clear
850	750	5100	150	9.75	6.96	19.54	.222	2.01	1.49	210	clear

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: Elisabeth McDonnell	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:51	SAMPLING ENDED AT: 9:03
PUMP OR TUBING DEPTH IN WELL (feet): 28	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	6.86	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.86	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.86	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: off road easy access
3. Sampling & Purging Equipment Condition: good
4. Site Condition that may Affect Sampling Present? _____Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D6	SAMPLE ID: MW-D6	DATE: 4/26/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 22.5	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) = (37.45 feet – 22.50 feet) X 0.16 gallons/foot = 2.4 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): 29.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.25	PURGING INITIATED AT: 1432	PURGING ENDED AT: 1510	TOTAL VOLUME PURGED (gallons): 1.5

TIME	ML 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)
1439	1050	1050	150	22.55	7.42	26.87	0.141	6.21	1.21	318	clear
1444	750	1800	150	22.55	7.58	26.51	0.142	6.04	0.69	324	"
1449	750	2550	150	22.55	7.70	26.51	0.141	5.94	0.84	327	"
1454	750	3300	150	22.55	7.80	26.70	0.140	5.82	0.68	329	"
1459	750	4050	150	22.55	8.01	27.00	0.140	5.67	1.10	332	"
1504	750	4800	150	22.55	8.06	27.25	0.139	5.58	1.15	333	"
1509	750	5550	150	22.55	8.11	27.11	0.138	5.51	0.98	336	"
1510	150	5700	150	—	grab	sample				—	"

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: Instar O	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1510	SAMPLING ENDED AT: 1535
PUMP OR TUBING DEPTH IN WELL (feet): 29.25	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	8.11	9315, 9320, Ra226, Ra228	APP	150 250
	1	HDPE	1.0L	NONE	----	8.11	SM4500, 2540C	APP	150 250
	1	HDPE	0.25L	HNO3	----	8.11	6020, 7470A	APP	150 250

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; **RFPP** = 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-07	SAMPLE ID: MW-07	DATE: 4/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.65	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) = (26.80 feet – 6.65 feet) X 0.16 gallons/foot = 3.224 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): 19.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:50	PURGING ENDED AT: 1037	TOTAL VOLUME PURGED (gallons): 1.98

TIME	VOLUME PURGED ~~(gallons)~~ ml	CUMUL. VOLUME PURGED ~~(gallons)~~ ml	ml/min 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)
1000	2400	2400	~~220~~ 240	6.41	7.27	20.28	1.27	0.00	~~0.00~~ 1.27	-110	clear
1005	1200	3600	240	7.70	7.31	20.26	.368	0.00	1.33	-122	clear
1010	750	4350	~~0~~150	9.50	7.38	20.26	.371	0.00	1.49	-130	clear
1015	750	5100	150	9.69	7.33	20.28	.371	0.00	1.16	-145	clear
1020	750	5850	150	9.65	7.32	20.28	.371	0.00	.21	-170	clear
1025	750	6600	150	9.70	7.33	20.28	.372	0.00	.42	-175	clear
1030	750	7350	150	9.77	7.32	20.33	.372	6.00	.12	-185	clear
1035	750	7500	150	9.80	7.33	20.34	.372	6.00		-189	

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: Elisabeth McDonnell	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:37	SAMPLING ENDED AT: 10:58
PUMP OR TUBING DEPTH IN WELL (feet): 19.7	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.33	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.33	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.33	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: _____Yes ✓ No
2. Well Access: off road easy access
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: **CRISP COUNTY POWER COMMISSION**	SITE LOCATION: **961 Power Dam Road, Warwick, GA 31796**	DATE: 4/27/2023
WELL NO: MW-D8	SAMPLE ID: MW-D8 / DUP-6	

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **0.25**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.58	PURGE PUMP TYPE OR BAILER: **PP**

WELL VOLUME PURGE: (only fill out if applicable) **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (27.8 feet – 6.58 feet) X **0.16** gallons/foot = gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:30	PURGING ENDED AT: 12:07	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ mL	CUMUL. VOLUME PURGED ~~(gallons)~~ mL	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) ~~µmhos/cm~~ or ~~µS/cm~~ mS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1140	1200	1200	120	8.35	7.35	20.24	.375	0.00	5.5	45	clear
1145	600	1800	120	8.65	7.37	19.91	.387	0.00	.09	-34	clear
1150	500	2300	100	8.65	7.28	19.80	.385	0.00	.02	-41	clear
1155	500	2800	100	8.70	7.33	19.83	.382	0.00	.06	-43	clear
1200	500	3300	100	8.78	7.33	19.83	.381	0.00	.25	-38	clear
1205	500	3800	100	8.85	7.33	19.80	.381	0.00	.19	-36	clear

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:07	SAMPLING ENDED AT: 12:55
Elisabeth McDonnell			

PUMP OR TUBING DEPTH IN WELL (feet): 20	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	DUP-6

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.33	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.33	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.33	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ____Yes ✓ No
2. Well Access: easy off road access
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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 4/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 148 feet to 248 feet	STATIC DEPTH TO WATER (feet): 6.92	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) = (27.3 feet − 6.92 feet) X 0.16 gallons/foot = 3.26 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): 19.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.8	PURGING INITIATED AT: 1000	PURGING ENDED AT: 1205	TOTAL VOLUME PURGED (gallons): 3.45

TIME	~~VOLUME PURGED (gallons)~~ mL	CUMUL. VOLUME PURGED ~~(gallons)~~	~~PURGE RATE (ppm)~~ 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)
1007	770	770	110	8.02	11.76	18.31	0.215	7.88	0.69	-82	clear
1012	~~770~~	~~1540~~	110	8.64	11.83	18.23	0.215	7.83	1.28	-107	"
1017	~~770~~	1870	110 94	~~11.72~~	11.72	18.02	0.212	6.97	1.01	-118	"
1022	550	2420	110	10.03	12.04	18.30	0.211	6.39	0.76	-140	"
1027	550	2970	110	10.60	12.11	18.15	0.213	5.85	2.71	-139	"
1032	550	3520	110	10.94	12.01	18.37	0.213	5.45	1.03	-139	"
1037	550	4070	110	11.37	12.01	18.27	0.214	5.24	1.61	-142	"
1042	550	4620	110	11.91	12.02	18.24	0.214	4.70	1.58	-141	"
1047	550	5170	110	12.21	11.94	18.27	0.215	5.82	1.60	-141	"
1052	550	5720	110	12.62	11.87	18.26	0.214	5.34	0.93	-140	"

1D 1320; 550; 550

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: Tristan O / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1205	SAMPLING ENDED AT: 1237
PUMP OR TUBING DEPTH IN WELL (feet): 20.8	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	11.24	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	11.24	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	11.24	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; **RFPP** = 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 4/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 14.8 feet to 24.8 feet	STATIC DEPTH TO WATER (feet): 6.92	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) = (27.3 feet – 6.92 feet) X 0.16 gallons/foot = 3.26 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): 19.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.8	PURGING INITIATED AT: 1000	PURGING ENDED AT: 1205	TOTAL VOLUME PURGED (gallons): 3.45

TIME	VOLUME PURGED (ML gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (ML/min 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)
1057	550	6270	110	12.96	11.78	18.45	0.212	4.83	0.93	-141	clear
1102	500	6770	100	13.40	11.75	18.50	0.213	4.30	2.10	-144	"
1107	500	7270	100	13.61	11.71	18.26	0.214	4.02	0.64	-142	"
1112	500	7770	100	13.85	11.63	18.40	0.214	6.69	1.45	-138	"
1117	500	8270	100	14.12	11.53	18.40	0.214	6.35	2.46	-135	"
1122	500	8770	100	14.30	11.46	18.36	0.214	5.42	1.78	-132	"
1127	500	9270	100	14.64	11.39	18.34	0.214	5.44	1.40	-131	"
1132	500	9770	100	14.75	11.39	18.34	0.214	5.33	1.97	-131	"
1137	500	10270	100	14.96	11.40	18.30	0.214	6.02	1.40	-129	"
1142	500	10770	100	15.15	11.33	18.36	0.214	4.84	1.45	-128	"

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: Tristan Geosynte	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 20.8	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	11.24	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	11.24	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	11.24	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; **RFPP** = 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 4/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 14.8 feet to 24.8 feet	STATIC DEPTH TO WATER (feet): 6.92	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) = (27.3 feet – 6.92 feet) X 0.16 gallons/foot = 3.26 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): 19.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.8	PURGING INITIATED AT: 1000	PURGING ENDED AT: 1205	TOTAL VOLUME PURGED (gallons): 3.46

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1147	500	11270	100	9.37	11.31	18.40	0.214	3.95 4.94	1.34	-126	clear
1152	500	11770	100	15.52	11.31	18.44	0.214	4.05	1.31	-126	"
1157	500	12270	100	15.66	11.32	18.46	0.214	4.02	1.31	-126	"
1202	500	12770	100	15.81	11.24	18.51	0.214	4.45	1.34	-124	"
1205	500	13270	100	—	grab Sample						"

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: Tristan Omdorff	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1205	SAMPLING ENDED AT: 1237
PUMP OR TUBING DEPTH IN WELL (feet): 20.8	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	11.24	9315, 9320, Ra226, Ra228	APP	100 250
	1	HDPE	1.0L	NONE	----	11.24	SM4500, 2540C	APP	100 250
	1	HDPE	0.25L	HNO3	----	11.24	6020, 7470A	APP	100 250

FIELD SAMPLING CONDITIONS:

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
   well does not recharge efficiently

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)

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.

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	Dalton Kegley
Location:	Warwick, Georgia	**Field Conditions:**	
Date:	6/12/23		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1	12:40	249.52	13.60	37.34	249.52	
MW-U2	12:49	248.79	12.96	27.90	248.79	
MW-D1	13:11	241.77	16.07	22.40	241.77	
MW-D2	13:04	232.66	14.65	22.55	232.66	
MW-D3	12:59	233.78	7.95	22.70	233.78	
MW-D4	12:53	233.78	12.71	29.85	233.78	
MW-D5	13:45	241.16	9.69	36.85	241.16	
MW-D6	13:39	252.63	23.31	34.41	252.63	
MW-D7	13:19	230.18	7.46	27.02	230.18	
MW-D8	13:08	226.76	8.47	27.68	226.76	
MW-D9	13:25	221.42	9.45	27.30	221.42	
END OF DAY WATER LEVELS						
MW-U1		249.52			249.52	
MW-u2		248.79			248.79	
MW-D1		241.77			241.77	
MW-D2		232.66			232.66	
MW-D3		233.78			233.78	
MW-D4		233.78			233.78	
MW-D5		241.16			241.16	
MW-D6		252.63			252.63	
MW-D7		230.18			230.18	
MW-D8		226.76			226.76	
MW-D9		221.42			221.42	

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	DATE: 6/12/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.68	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) = (37.34 feet – 13.68 feet) X **0.16** gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1250	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons):

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)
1300	0.200	0.2	200	14.2	7.50	23.95	0.212	9.50	1.14	71	clear
1305	0.2	0.4	200	14.1	7.70	23.50	0.207	8.96	1.19	60	Clear
1310	0.2	0.6	200	14.12	7.63	23.35	0.200	8.89	1.14	59	Clear
1315	0.2	0.8	200	14.14	7.85	23.35	0.196	9.00	1.28	60	"
1320	0.2	1.0	200	14.15	7.70	23.09	0.197	8.63	1.26	73	"
1325	0.2	1.2	200	14.15	7.88	23.27	0.196	8.82	1.48	64	"
1330	0.2	1.4	200	14.15	7.83	22.95	0.194	8.59	1.61	74	"
1335	0.2	1.6	200	14.16	7.79	22.86	0.190	8.28	1.29	80	"
							DG				

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: D. Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1400
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-02	SAMPLE ID: MW-02	DATE: 6/12/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.98	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) = (27.90 feet – 12.98 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:15	PURGING ENDED AT: 15:20	TOTAL VOLUME PURGED (gallons):

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)
14:20	1	1	250	14.84	7.63	26.51	0.116	6.76	1.62	146	Clear
14:25	1.25	2.25	250	15.12	7.77	26.39	0.111	6.51	0.44	148	
14:30	1.25	3.50	250	15.31	7.77	26.16	0.107	6.10	0.85	154	
14:35	1.25	4.75	250	15.44	7.75	27.73	0.102	5.93	1.14	158	
14:40	1.25	6	250	15.47	7.77	27.94	0.101	5.41	0.90	158	
14:45	1.25	7.25	250	15.51	7.75	28.06	0.101	5.26	0.80	160	
14:50	1.25	8.50	250	15.54	7.73	28.65	0.098	4.85	1.00	164	
14:55	1.25	9.75	250	15.57	7.74	28.79	0.098	4.82	0.83	162	
15:00	1.25	11	250	15.58	7.79	28.00	0.099	4.94	0.94	162	

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: Dalton · Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:05	SAMPLING ENDED AT: 15:20
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: NA µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.79	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.79	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.79	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 6/12/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.28	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) = (29.85 feet – 12.28 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1510	PURGING ENDED AT: 1700	TOTAL VOLUME PURGED (gallons):

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)
1515	0.2	0.2	200	13.1	7.55	31.25	0.001	8.32	2.75	98	Clear
1520	0.2	0.4	200	14.2	7.50	31.10	0.001	8.05	2.31	97.8	"
1525	0.2	0.6	200	—	7.47	30.76	0.501	7.63	2.81	110	"
lightning stend out											
1600	0.2	0.2	200	13.84	7.62	29.77	0.001	7.34	1.10	72	"
1605	0.2	0.4	200	14.16	7.67	29.69	0.001	7.26	1.28	57	"
1610	0.2	0.6	200	14.91	7.82	29.59	0.001	7.01	1.30	14	"
1615	0.2	0.8	200	15.42	7.81	29.56	0.001	6.82	1.08	-2	"
1620	0.2	1.0	200	15.84	7.76	29.65	0.001	6.65	1.23	10	"
					DS						

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: D. Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1620	SAMPLING ENDED AT: 1700
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D5	SAMPLE ID: MW-D5	DATE: 6/13/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.65	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) = (36.85 feet – 9.65 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1245	TOTAL VOLUME PURGED (gallons):

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)
1155	0.2	0.2	200	10.10	7.12	21.79	0.244	6.61	1.53	85	Clear
1200	0.2	0.4	200	10.15	7.01	21.54	0.235	7.02	1.89	87	"
1205	0.2	0.6	200	10.17	7.08	21.25	0.236	6.87	1.42	91	"
1210	0.2	0.8	200	10.18	7.03	21.06	0.240	5.77	1.30	93	"
1215	0.2	1.0	200	10.18	7.06	21.03	0.235	6.78	1.10	99	"
1220	0.2	1.2	200	10.20	7.03	20.80	0.235	6.51	1.27	98	"
1225	0.2	1.4	200	10.21	7.05	20.98	0.236	6.62	1.14	99	"

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: D.Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1225	SAMPLING ENDED AT: 1245
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D6	SAMPLE ID: MW-D6	DATE: 6/12/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.37	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) = (34.41 feet – 23.37 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 16:40	PURGING ENDED AT: 17:41	TOTAL VOLUME PURGED (gallons):

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)
16:50	1	1	250	23.41	7.79	25.47	0.133	10.60	1.19	128	Clear
16:55	1.25	2.25	250	23.42	7.77	25.03	0.132	9.21	0.97	139	
17:00	1.25	3.50	250	23.43	7.76	25.57	0.129	8.22	0.86	147	
17:05	1.25	4.75	250	23.44	7.61	22.20	0.137	9.25	0.74	163	
17:10	1.25	6	250	23.46	7.69	22.18	0.136	8.92	0.89	160	
17:15	1.25	7.25	250	23.46	7.74	22.12	0.135	8.50	0.92	161	
17:20	1.25	8.50	250	23.47	7.72	22.06	0.135	8.27	0.73	163	
				DC							

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 17:25	SAMPLING ENDED AT: 17:41
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: NA µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.72	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.72	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.72	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-07	SAMPLE ID: MW-07	DATE: 6/13/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.85	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) = (27.02 feet – 7.85 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1055	TOTAL VOLUME PURGED (gallons):

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)
1015	0.2	0.2	200	9.48	7.80	21.92	0.340	6.09	3.19	-211	Clear
1020	0.2	0.4	200	10.12	7.70	21.46	0.343	0	2.43	-205	"
1025	0.2	0.6	200	10.65	7.71	21.32	0.341	7.06	2.64	-204	"
1030	0.2	0.8	200	10.97	7.70	21.31	0.342	6.73	2.45	-204	"
1035	0.2	1.0	200	11.20	7.68	21.25	0.339	6.39	1.87	-205	"

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: D.Grenc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1035	SAMPLING ENDED AT: 1055
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D8	SAMPLE ID: MW-D8	DATE: 6/13/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.34	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) = (27.68 feet – 8.34 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 845	PURGING ENDED AT: 925	TOTAL VOLUME PURGED (gallons):

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)
850	0.2	0.2	200	10.12	7.28	20.31	0.397	0	0.94	-136	Clear
855	0.2	0.4	200	10.6	7.40	19.90	0.402	0	0.77	-148	"
900	0.2	0.6	200	10.2	7.42	19.73	0.402	0	0.91	-151	"
905	0.2	0.8	200	11.64	7.41	19.87	0.400	0	9.94	-149	"
					DG						

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: D. Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 905	SAMPLING ENDED AT: 925
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 6/13/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.49	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) = (27.30 feet – 9.49 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:10	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	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)
9:25	1	1	250	11.49	7.28	20.35	0.191	4.46	0.81	-220	Clear
9:30	1.25	2.25	250	13.93	7.34	20.27	0.191	3.53	0.96	-220	
9:35	1.25	3.50	250	14.50	7.31	21.21	0.1460	3.97	0.74	-210	
9:40	1.25	4.75	250	15.50	7.34	20.00	0.193	4.19	0.63	-210	
9:45	1.25	6	250	16.55	7.36	19.84	0.193	3.24	1.13	-227	
9:50	1.25	7.25	250	17.12	7.18	19.94	0.191	3.19	1.07	-217	
9:55	1.25	8.50	250	17.37	7.37	19.99	0.192	3.65	0.83	-215	
10:00	1.25	9.75	250	17.45	7.36	19.87	0.191	3.25	0.97	-221	
10:05	1.25	11	250	17.67	7.30	20.44	0.192	3.59	0.72	-210	
10:10	1.25	12.25	250	17.99	7.36	20.00	0.193	3.84	0.85	-211	

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 6/13/23

PURGING DATA

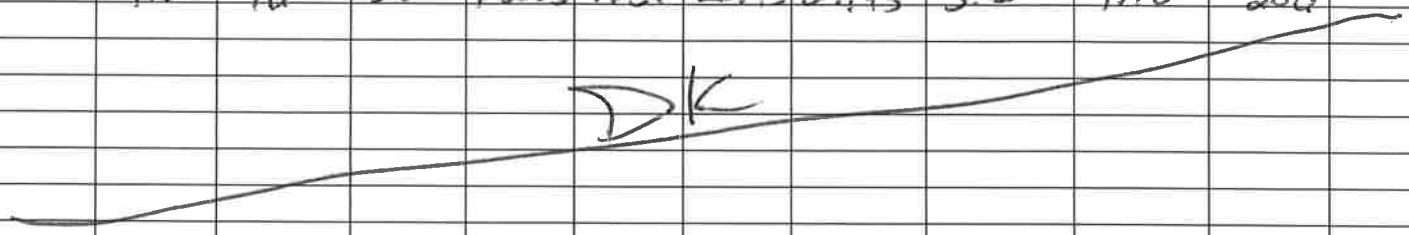
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.49	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:10	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (~~ppm~~ 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)
10:15	1.25	13.50	250	14.20	7.37	19.79	0.193	3.40	0.53	-213	
10:20	1.25	14.75	250	18.41	7.31	19.94	0.192	3.09	0.94	-203	
10:25	1.25	16	250	18.53	7.39	20.43	0.193	3.27	1.10	-206	



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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:30	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: N/A µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.39	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.34	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.39	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	Jacob Tracy
Location:	Warwick, Georgia	**Field Conditions:**	
Date:	7/26/2023		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1		249.52		12.63		
MW-U2		248.79		12.09		
MW-D1		241.77		15.79		
MW-D2		232.66		12.8		
MW-D3		233.78		7.53		
MW-D4		233.78		11.4		
MW-D5		241.16		8.95		
MW-D6		252.63		22.61		
MW-D7		230.18		7.41		
MW-D8		226.76		8.05		
MW-D9		221.42		9		

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-09	SAMPLE ID: MW-09	DATE: 07/26/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.00	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) = (27.31 feet – 9.00 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:20	PURGING ENDED AT: 14:14	TOTAL VOLUME PURGED (gallons):

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
11:40	0.2	0.2	0.2	11.73	6.95	24.4	0.327	1.40	0.87	-54	clear
11:45	0.2	0.4	0.2	12.74	7.11	23.4	0.307	1.00	0.67	-199	"
11:50	0.2	0.6	0.2	13.49	7.16	23.23	0.304	0.94	0.85	-135	"
11:55	0.2	0.8	0.2	14.15	7.21	23.13	0.3	0.9	2.74	-146	"
12:00	0.2	1.0	0.2	14.4	7.26	24.58	0.295	1.86	4.06	-141	"
12:05	0.2	1.2	0.2	14.39	7.28	25.13	0.247	2.37	3.38	-134	"
12:10	"	1.4	"	14.4	7.33	26.19	0.298	3.24	3.24	-119	"
12:15	"	1.6	"	14.41	7.36	26.65	0.297	3.81	3.19	-113	"
12:20	"	1.8	"	14.41	7.38	27.03	0.296	4.07	3.03	-108	"
12:25	"	2.0	"		7.41	27.37	0.296	4.38	2.31	-101	"

2.93

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: Pearcams / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:40	SAMPLING ENDED AT: 14:14
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.48	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.48	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.48	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D9	SAMPLE ID: MW-D9	DATE: 07/26/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.00	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) = (27.31 feet – 9.00 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:20	PURGING ENDED AT: 14:14	TOTAL VOLUME PURGED (gallons):

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)
12:30	0.2	2.2	0.2	14.41	7.48	27.89	0.293	4.62	2.64	-95	clear
12:35	0.2	2.4	11	14.41	7.48	28.13	0.293	4.68	2.75	-91	11

P. Carcamo.

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: P. Carcamo Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:40	SAMPLING ENDED AT: 14:14
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.48	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.48	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.48	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; SM = Straw Method (Tubing Gravity Drain); ESP = Electric Submersible Pump; 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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW 08	SAMPLE ID: MW-08	DATE: 07/26/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.05	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) = (27.73 feet – 8.05 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:00	PURGING ENDED AT: 16:00	TOTAL VOLUME PURGED (gallons):

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)
320	0.25	0.25	0.25	10.41	7.08	22.81	422	1.54	1.78	-6	Clear
325	"	0.5	"	11.32	7.07	22.59	421	1.52	1.51	-18	"
330	"	0.75	"	11.99	7.07	22.12	418	0.99	1.52	-38	"
335	"	1	"	12.44	7.08	21.56	419	0.86	1.42	-51	"
340	"	1.25	"	12.73	7.06	21.45	421	0.84	1.45	-54	"
	P. Corcoran										

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: P. Corcoran	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: ~~15:45~~ 15:45	SAMPLING ENDED AT: 16:00
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.06	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.06	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.06	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: **CRISP COUNTY POWER COMMISSION**	SITE LOCATION: **961 Power Dam Road, Warwick, GA 31796**	
WELL NO: MW-02	SAMPLE ID: MW-02	DATE: 07/27/23

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **0.25**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.13	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) = (30.94 feet – 12.13 feet) X **0.16** gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 8:00	PURGING ENDED AT: 9:35	TOTAL VOLUME PURGED (gallons):

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)
8:15	0.25	0.25	0.25	14.48	5.56	22.26	160	7.33	0.02	240	Clear
8:20	"	0.5	0.25	14.13	6.88	22.3	161	8.44	0.2	243	–
8:25	"	0.75	0.25	14.48	7.36	22.3	162	9.40	0.68	247	–
8:30	"	1.00	0.25	14.69	7.47	22.34	161	9.22	0.29	249	–
8:35	"	1.25	0.25	14.82	7.54	22.34	158	9.07	0.3	250	–
8:40	"	1.5	0.25	14.89	7.53	22.45	155	8.95	0.19	252	"
8:45	"	1.75	0.25	14.94	7.54	22.42	155	8.81	0.25	251	"
8:50	"	2.0	0.25	14.95	7.52	22.43	154	8.12	0.26	251	"
8:55	"	2.25	0.25	14.96	7.51	22.44	153	8.12	0.31	251	"
9:00	"	2.5	0.25	14.98	7.50	22.59	151	8.29	0.36	230	"

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: P. Corcoran/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:00	SAMPLING ENDED AT: 9:35
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.65	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.65	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.65	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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; **RFPP** = 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:** ± 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-U1	SAMPLE ID: MW-U1	DATE: 07/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.7	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) = (37.39 feet − 12.7 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:55	PURGING ENDED AT: 10:45	TOTAL VOLUME PURGED (gallons):

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)
10:05	0.25	2.75	0.25	12.98	7.68	27.23	188	6.99	2.46	213	Clear
10:10	11	3.0	0.25	13.17	7.66	25.68	191	6.70	2.53	217	11
10:15	11	3.25	0.25	13.22	7.64	24.78	196	6.70	2.39	222	11
10:20	11	3.5	0.25	13.27	7.65	24.49	197	6.68	2.46	224	11

P. Corcoran

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: P. Corcoran / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:25	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.65	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.65	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.65	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-D6	SAMPLE ID: [redacted] MW-D6
DATE: 07/27/23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 22.65	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) = (37.47 feet − 22.65 feet) X 0.16 gallons/foot = 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 11.15 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: [redacted]	PURGING ENDED AT: 12:50	TOTAL VOLUME PURGED (gallons):

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)
11:25	0.25	0.25	0.25	22.7	7.78	23.09	218	14.29	1.5	165	clear
11:30	"	0.5	0.25	22.74	7.75	22.97	219	10.19	1.9	174	"
11:35	"	0.75	0.25	22.73	7.78	22.92	214	9.81	1.68	178	"
11:40	"	1.00	0.25	22.73	7.72	22.92	211	9.50	1.52	178	"
11:45	"	1.25	0.25	22.73	7.72	22.88	210	9.34	1.43	179	"
11:50	"	1.5	0.25	22.75	7.72	23.01	209	9.10	1.39	175	"
11:55	"	1.75	0.25	22.75	7.73	23.00	208	9.04	1.56	175	"
12:00	"	2.0	0.25	22.74	7.74	23.06	211	8.82	1.56	176	"
12:05	"	2.25	0.25	22.74	7.74	23.40	207	8.63	1.84	175	"
12:10	"	2.5	0.25	22.74	7.74	23.67	205	8.46	1.55	178	"

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: P. Corcoran / Geosyntec	SAMPLER(S) SIGNATURE(S): [redacted]	SAMPLING INITIATED AT: 12:25	SAMPLING ENDED AT: 12:50
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.75	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.75	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.75	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW D6	SAMPLE ID: MW-D6	DATE: 07/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 22.65	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) = (37.47 feet – 22.65 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:15	PURGING ENDED AT: 12:50	TOTAL VOLUME PURGED (gallons):

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)
12:15	0.25	2.75	0.25	22.74	7.75	23.91	203	8.37	2.62	181	clear
12:20	0.25	3.0	0.25	22.73	7.75	24.18	202	8.26	2.70	178	"

P. Carcone

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: P. Carcone / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:25	SAMPLING ENDED AT: 12:50
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.75	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.75	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.75	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-DS	SAMPLE ID: MW-DS	DATE: 07/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.96	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) = (36.28 feet – 8.96 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:00	PURGING ENDED AT: 15:25	TOTAL VOLUME PURGED (gallons):

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)
14:15	0.25	0.25	0.25	9.62	7.19	25.66	222	7.73	2.19	237	clear
14:20	"	0.5	"	9.73	6.75	22.44	233	7.35	1.6	245	"
14:25	"	0.75	"	9.75	6.72	21.92	236	5.90	2.25	252	"
14:30	"	1.00	"	9.75	6.71	22.14	242	8.80	2.58	253	"
14:35	"	1.25	0.25	9.73	6.73	22.20	242	8.33	2.54	257	"
14:40	"	1.5	"	9.77	6.70	22.28	244	8.03	2.26	259	"
14:45	"	1.75	"	9.74	6.72	22.04	245	7.67	2.23	261	"
14:50	"	2.00	"	9.74	6.73	22.20	246	7.47	2.17	263	"
14:55	"	2.25	"	9.74	6.74	22.39	246	7.10	2.24	264	"
15:00	"	2.5	"	9.73	6.73	22.49	244	7.09	2.16	266	"

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: P. Corcoran	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:05	SAMPLING ENDED AT: 15:25
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	6.72	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.72	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.72	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-DS	SAMPLE ID: MW-DS	DATE: 07/27/23

PURGING DATA

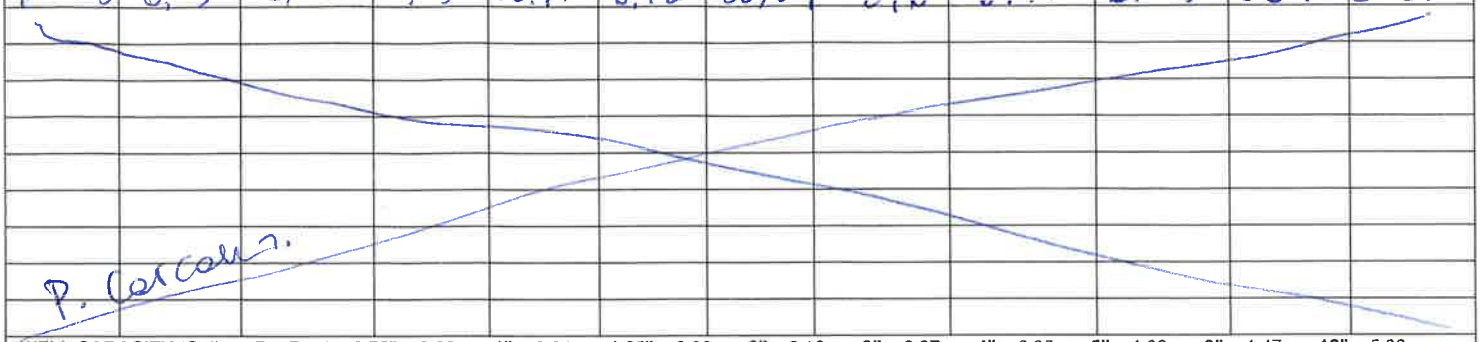
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.96	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (36.28 feet − 8.96 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:00	PURGING ENDED AT: 15:25	TOTAL VOLUME PURGED (gallons):

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)
15:05	0.25	2.75	0.25	10.74	6.72	22.29	246	6.91	2.09	267	clear



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: P. Corcoran / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:05	SAMPLING ENDED AT: 15:25
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	6.72	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.72	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.72	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 7/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.4	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) = (29.89 feet − 11.4 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:45	PURGING ENDED AT: 17:30	TOTAL VOLUME PURGED (gallons):

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)
4:05	0.25	0.25	0.25	13.11	7.06	28.09	243	7.98	3.04	162	clear
4:10	"	0.5	0.23	13.98	7.06	26.12	243	7.73	2.59	161	"
4:15	"	0.75	0.25	14.7	7.06	26.22	249	6.08	2.31	157	"
4:20	"	1.0	0.25	15.3	7.12	25.36	259	6.87	2.49	156	"
4:25	"	1.25	0.25	15.74	7.17	25.00	266	6.98	2.06	157	"
4:30	"	1.5	0.25	16.16	7.31	25.24	260	7.06	2.33	157	"
4:35	"	1.75	0.25	16.43	7.34	25.04	259	6.53	1.92	155	"
4:40	"	2.0	0.25	16.78	7.36	25.33	260	6.34	2.42	150	"
4:45	"	2.25	0.25	16.94	7.40	26.31	230	5.23	2.46	144	"
4:50	"	2.5	0.25	17.07	7.42	26.34	249	4.86	2.03	115	"

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: P. Corcoran / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 17:10	SAMPLING ENDED AT: 17:30
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.51	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.51	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.51	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-04	SAMPLE ID: MW-04	DATE: 7/27/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.4	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) = (29.89 feet – 11.4 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:45	PURGING ENDED AT: 17:30	TOTAL VOLUME PURGED (gallons):

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)
4:55	0.25	2.75	0.25	17.22	7.46	23.31	256	4.89	2.03	99	clear
5:00	"	3.0	"	17.36	7.5	26.13	243	4.34	2.52	79	"
5:05	"	3.25	"	17.44	7.51	26.2	242	4.3	2.34	~~76~~ 76	"
5:10	"	3.5	"	17.52	7.51	25.97	240	4.13	2.62	74	"
			"								

P. Corcoran

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: P. Corcoran / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 17:10	SAMPLING ENDED AT: 17:30
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.51	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.51	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.51	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-07	SAMPLE ID: MW-07	DATE: 7/28/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.49	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) = (27.07 feet − feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:10	PURGING ENDED AT: 10:50	TOTAL VOLUME PURGED (gallons):

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)
9:13	0.25	0.25	0.25	9:42	7.3	23.06	364	1.05	0.87	-20	Clear
9:20	0.25	0.5	0.25	10.24	7.13	23.0	364	1.18	0.36	-44	"
9:25	0.25	0.75	0.25	10.81	7.21	22.81	364	1.39	0.03	-84	"
9:30	0.25	1.0	0.25	11.21	7.27	22.64	366	1.41	-0.04	-106	"
9:33	0.25	1.25	0.25	11.47	7.25	22.43	366	1.30	0.04	-118	"
9:40	0.25	1.5	0.25	11.63	7.24	22.31	364	1.17	0.2	-120	"
9:45	0.25	1.75	0.22	11.76	7.22	22.34	363	1.13	0.1	-125	"

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: Jacob Tracy / Geosyntec	SAMPLER(S) SIGNATURE(S): Jacob Tracy	SAMPLING INITIATED AT: 09:48	SAMPLING ENDED AT: 10:50
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.22	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.22	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.22	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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) X 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)

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.

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	Dalton Kegley
Location:	Warwick, Georgia	**Field Conditions:**	70s, clear
Date:	10/17/2023		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1		249.52	15.64	37.39	233.88	
MW-U2		248.79	15.24	30.92	233.55	
MW-D1		241.77	16.15	22.81	225.62	
MW-D2		232.66	13.46	22.61	219.2	
MW-D3		233.78	7.89	22.7	225.89	
MW-D4		233.78	13.59		220.19	bottom of well was not tagged
MW-D5		241.16	10.41	36.1	230.75	
MW-D6		252.63	23.95	37.45	228.68	
MW-D7		230.18	8.28	27.05	221.9	
MW-D8		226.76	8.52	27.72	218.24	
MW-D9		221.42	11.03	27.29	210.39	

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-01	SAMPLE ID: MW-01
DATE: 10/17/23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.67	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) = (33.75 feet – 13.67 feet) X **0.16** gallons/foot = 3.21 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm) L	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)
9:40	~~0.5~~	1	100	13.91	7.56	20.48	173	3.79	0.8	145	clear
9:45	0.5	1.5	100	15.43	7.71	20.90	174	3.70	0.64	137	clear
9:50	0.5	2	100	15.95	7.96	21.85	173	3.52	0.33	123	clear
9:55	0.5	2.5	100	15.97	8.03	22.14	173	3.53	0.11	121	clear
10:00	0.5	3.0	100	16.01	8.08	22.34	174	3.67	0.96	119	clear
10:05	0.5	3.5	100	16.01	8.10	22.48	173	3.73	0.90	119	clear
10:10	~~0.5~~		Grab	sample							

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: Jacob Tracy / Geosyntec	SAMPLER(S) SIGNATURE(S): Jacob Tracy	SAMPLING INITIATED AT: 10:10	SAMPLING ENDED AT: 10:50
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: X Yes _____ No
2. Well Access: Unobstructed
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-U2	SAMPLE ID: MW-U2	DATE: 10/17/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 15.24	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) = (30.92 feet – 15.24 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:10	PURGING ENDED AT: 12:57	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (~~gpm~~ mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
12:20	1	1	250	17.45	4.33	22.24	0.184	5.23	3.53	256	Clear
12:25	1.25	2.25	250	17.46	8.56	22.26	0.178	4.90	2.16	263	
12:30	1.25	3.50	250	16.12	8:57	22.40	0.171	4.85	2.17	269	
12:35	1.25	4.75	250	16.53	8:56	22.55	0.170	4.49	1.40	273	

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:40	SAMPLING ENDED AT: 13:00
PUMP OR TUBING DEPTH IN WELL (feet): ~~25~~ 25'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: NA µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	4.56	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	4.56	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	4.56	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 10/17/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.59	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) = (feet – 13.59 feet) X **0.16** gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:10	PURGING ENDED AT: 15:05	TOTAL VOLUME PURGED (gallons):

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
14:20	1	1	250	17.21	6.01	20.93	0.255	4.67	2.46	281	Clear
14:25	1.25	2.25	250	17.93	6.06	20.83	0.252	2.43	2.10	275	
14:30	1.25	3.50	250	18.18	6.10	20.71	0.250	0.83	1.64	268	
14:35	1.25	4.75	250	18.72	6.15	20.60	0.250	0.75	2.22	264	
14:40	1.25	6	250	19.00	6.20	20.48	0.250	0.67	1.86	259	
14:45	1.25	7.25	250	19.25	6.23	20.41	0.248	0.70	2.03	246	
					DK						

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:50	SAMPLING ENDED AT: 15:05

PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: NA µm

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

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	6.23	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	6.23	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	6.23	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D5	SAMPLE ID: MW-D5	DATE: 10/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.44	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) = (36.10 feet – 10.44 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:20	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	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)
10:35	1	1	250	11.05	7.21	22.44	0.203	4.710	3.14	139	Clear
10:40	1.25	2.25	250	11.07	7.28	22.62	0.216	4.61	2.63	133	
10:45	1.25	3.50	250	11.09	7.30	22.76	0.219	4.46	2.20	130	
10:50	1.25	4.75	250	11.10	7.31	22.75	0.220	4.34	1.63	126	

DK

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:55	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: NA µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.31	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.31	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.31	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D6	SAMPLE ID: MW-D6	DATE: 10/17/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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) = (37.45 feet – 23.95 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

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)
16:15	1	1	250	23.99	4.61	24.97	0.197	6.10	1.64	2102	Clear
16:20	1.25	2.25	250	24.00	4.72	24.13	0.195	5.30	1.48	265	
16:25	1.25	3.50	250	24.01	4.63	23.69	0.195	5.21	1.34	274	
16:30	1.25	4.75	250	24.01	4.65	23.39	0.194	5.76	1.47	277	
16:35	1.25	6	250	24.01	4.65	23.21	0.192	5.74	1.38	280	
16:40	1.25	7.25	250	24.01	4.79	23.03	0.190	6.06	1.16	274	
16:45	1.25	8.50	250	24.01	4.80	23.01	0.190	6.09	1.49	281	
16:50	1.25	9.75	250	24.01	4.79	22.99	0.191	6.07	1.22	280	
16:55	1.25	11	250	24.01	4.82	22.97	0.190	6.17	2.27	279	
					DK						

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 17:00	SAMPLING ENDED AT: 17:15
PUMP OR TUBING DEPTH IN WELL (feet): 32'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: NA µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	4.82	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	4.82	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	4.82	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-07 (Page 1/2)	SAMPLE ID: MW-07
DATE: 10/18/23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.26	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) = (27.08 feet – 8.26 feet) X 0.16 gallons/foot = 3.00 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	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)
10:40	~~1~~	1	250	9.62	7.59	22.34	336	17.59	1.01	136	
10:45	1.5	2.5	250	10.54	7.80	21.64	348	0.46	1.57	33	
10:50	1.5 ~~1~~	4	250	11.37	7.84	21.89	348	0.33	0.69	-80	
10:55	1.5	5.5	250	11.79	7.89	22.19	346	0.46	0.67	-104	
11:00	1.5	7	250	12.2	7.86	22.44	343	0.33	0.69	-139	
11:05	1.5	8.5	250	12.41	7.84	22.71	342	0.16	0.47	-174	
11:10	1.5	10	250	12.59	7.83	22.93	341	0.09	0.51	-201	
11:15	1.5	11.5	250	12.71	7.92	23.19	339	0.12	0.5	-221	
11:20	1.5	13	250	12.79	7.82	23.43	338	0.12	0.46	-236	
11:25	1.5	14.5	250	12.87	7.82	23.69	335	0.19	0.4	-248	

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: Jacob Tracy / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:35	SAMPLING ENDED AT: 11:55
PUMP OR TUBING DEPTH IN WELL (feet): 19.4	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ~~___~~ Yes ~~___~~ No
2. Well Access: Vegetated
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? ___ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-07 (page 3/2) SAMPLE ID: MW-07	DATE: 10/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.26	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) = (27.05 feet – 8.26 feet) X 0.16 gallons/foot = 3.00 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons) L	CUMUL VOLUME PURGED (gallons) L	PURGE RATE (gpm) L	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)
11:30	1.5	16	250	12.93	7.81	23.92	335	0.19	2.48	-255	
11:33			Grab		Sample						

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: Jacob Tracy/GCO	SAMPLER(S) SIGNATURE(S): Jacob Tracy	SAMPLING INITIATED AT: 11:35	SAMPLING ENDED AT: 11:55
PUMP OR TUBING DEPTH IN WELL (feet): 19.4	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: ~~Yes~~ X (No)
2. Well Access: Vegetated
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-D4	SAMPLE ID: MW-D4	DATE: 10/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.42	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) = (27.72 feet – 4.42 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 13:20	PURGING ENDED AT: 14:05	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(Gallons)~~ L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
13:30	1	1	250	11.74	7.59	23.63	0.346	0.04	1.31	-219	Clear
13:35	1.25	2.25	250	12.28	7.59	23.70	0.348	0.00	1.37	-256	
13:40	1.25	3.50	250	12.61	7.59	23.71	0.351	0.00	0.99	-268	
13:45	1.25	4.75	250	12.46	7.59	23.74	0.352	0.00	0.95	-272	
13:50	1.25	6	250	13.05	7.60	23.69	0.354	0.00	1.32	-273	
						DIC					

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: Dalton Wesley / Ecosystec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:55	SAMPLING ENDED AT: 14:05
PUMP OR TUBING DEPTH IN WELL (feet): 22'	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ~~NA~~ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----	7.60	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.60	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.60	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-04 (Page 1/2)	SAMPLE ID: MW-04	DATE: 10/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.04	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) = (27.29 feet – 11.04 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (~~gpm~~) L	DEPTH TO WATER (~~feet~~) L	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)
13:10	0	1	100	12.07	7.61	21.91	261	1.15	0.54	-312	clear
13:15	0.5	1.5	100	13.08	7.64	21.85	267	0.74	0.48	-330	clear
13:20	0.5	2	100	13.89	7.65	21.87	269	0.60	0.29	-344	clear
13:23	0.5	2.5	100	14.71	7.63	21.85	270	0.71	0.54	-351	clear
13:30	0.5	3	100	15.54	7.70	21.88	270	0.86	0.63	-355	clear
13:33	0.5	3.5	100	16.06	7.81	21.89	269	0.91	0.66	-358	clear
13:40	0.5	4	100	16.63	8.01	21.93	268	0.92	0.66	-353	clear
13:45	0.5	4.5	100	17.12	8.11	22.05	267	0.89	0.79	-341	clear
13:50	0.5	5	100	17.11	8.17	21.99	268	1.40	0.75	-322	clear
13:55	0.5	5.5	100	17.11	8.17	22.17	271	5.32	0.57	-312	clear, airline

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: 19.8	SAMPLER(S) SIGNATURE(S): Jake Frey	SAMPLING INITIATED AT: 14:10	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: Y Yes _____ No
2. Well Access: Unobstructed
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? _____ Yes (describe below) X 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)

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.

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796
WELL NO: MW-09 (page 2/2) SAMPLE ID: MW-09	DATE: 10/18/23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.04	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) = (feet – 11.04 feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

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)
14:00	0.5	6	100	17.12	8.17	22.30	273	5.30	0.52	-309	clear
14:05	0.5	6.5	100	17.12	8.18	22.42	275	5.12	0.47	-307	clear
14:10		6.5		sample							

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: Jacob Tracy / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:10	SAMPLING ENDED AT:

PUMP OR TUBING DEPTH IN WELL (feet): 19.8	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)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

1. Well Sign Present: X Yes ____ No
2. Well Access: Unobstructed
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? ____ Yes (describe below) X 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)

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.

APPENDIX B

Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-223692-1
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Authorized for release by:
9/27/2022 3:33:12 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Job ID: 400-223692-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223692-1

Comments
Reagent manufacturer delays prevented analysis by SM 4500F-C. Analysis performed by EPA 300.0 outside method-specified holding time. MW-D6 (400-223692-1), MW-D7 (400-223692-2), MW-D8 (400-223692-3), MW-U2 (400-223705-1), MW-D9 (400-223705-2), MW-D4 (400-223708-1), MW-D5 (400-223708-2) and DUP (400-223708-3)

Receipt
The samples were received on 7/29/2022 9:11 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 2.5º C.

HPLC/IC
Method 300.0: The following samples were analyzed outside of analytical holding time due to samples being activated outside o hold time: MW-D6 (400-223692-1), MW-D7 (400-223692-2) and MW-D8 (400-223692-3).

Method 300.0: The continuing calibration verification (CCV) associated with batch 400-590628 recovered above the upper contr limit for Fluoride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have be reported.

Metals
Method 6020: The CRI associated with batch 400-587476 recovered above the upper control limit for Boron. The LCS, MS, anc MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. The associate LCS, MS, and MSD are impacted: MW-D6 (400-223692-1), (LCS 400-587228/2-A ^5) and (MB 400-587228/1-A ^5).

Method 6020: The ICV for batch 400-587476 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

Method 6020: The ICV for batch 400-588311 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

Method 6020: The continuing calibration blank (CCB) for analytical batch 400-588311 contained Boron above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020: The initial calibration verification (ICV) and ICSA result for batch 400-588311 was above the upper control limit. T laboratory control spike results was within the acceptable limits, and have been reported as qualified data.

Method 7470A: The method blank for preparation batch 400-587426 and analytical batch 400-587572 contained Mercury above method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-586857 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-589801 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 400-223692-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

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

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Client Sample ID: MW-D6 — Lab Sample ID: 400-223692-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.012	B	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	41		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0013	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	250		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.78				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D7 — Lab Sample ID: 400-223692-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.12	B	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.029	J ^2	0.050	0.0012	mg/L	5		6020	Total Recoverable
Cadmium	0.00086	J	0.0010	0.00065	mg/L	5		6020	Total Recoverable
Calcium	62		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	350		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.37				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D8 — Lab Sample ID: 400-223692-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.048	B	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.034	J ^2	0.050	0.0012	mg/L	5		6020	Total Recoverable
Cadmium	0.0012		0.0010	0.00065	mg/L	5		6020	Total Recoverable
Calcium	77		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	270		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	8.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	17		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.77				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET PEN
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223692-1	MW-D6	Water	07/27/22 16:01	07/29/22 09:11
400-223692-2	MW-D7	Water	07/28/22 11:40	07/29/22 09:11
400-223692-3	MW-D8	Water	07/28/22 09:28	07/29/22 09:11

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Client Sample ID: MW-D6

Date Collected: 07/27/22 16:01
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/29/22 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/04/22 00:18	5
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 20:37	5
Barium	**0.012**	**B**	0.0025	0.00070	mg/L		08/02/22 13:33	08/04/22 00:18	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/04/22 00:18	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 13:33	08/04/22 00:18	5
Cadmium	ND		0.0010	0.00065	mg/L		08/02/22 13:33	08/04/22 00:18	5
Calcium	**41**		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 16:12	5
Chromium	**0.0013**	**J**	0.0025	0.0010	mg/L		08/02/22 13:33	08/04/22 00:18	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 13:33	08/04/22 00:18	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/04/22 00:18	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 16:12	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 16:12	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/09/22 21:37	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/04/22 00:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/04/22 10:20	08/04/22 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**250**		5.0	5.0	mg/L			07/29/22 16:04	1
Chloride	**5.0**		2.0	1.4	mg/L			08/22/22 17:07	1
Sulfate	**2.0**	**J**	5.0	1.4	mg/L			08/22/22 21:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.78**				SU			07/28/22 15:01	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Client Sample ID: MW-D7

Date Collected: 07/28/22 11:40
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/29/22 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/04/22 00:21	5
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 20:40	5
Barium	**0.12**	**B**	0.0025	0.00070	mg/L		08/02/22 13:33	08/04/22 00:21	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/04/22 00:21	5
Boron	**0.029**	**J ^2**	0.050	0.0012	mg/L		08/02/22 13:33	08/10/22 20:01	5
Cadmium	**0.00086**	**J**	0.0010	0.00065	mg/L		08/02/22 13:33	08/05/22 16:15	5
Calcium	**62**		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 16:15	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 13:33	08/04/22 00:21	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 13:33	08/04/22 00:21	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/04/22 00:21	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 16:15	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 16:15	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/09/22 21:40	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/04/22 00:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/04/22 10:20	08/04/22 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**350**		5.0	5.0	mg/L			07/29/22 16:04	1
Chloride	**3.9**		2.0	1.4	mg/L			08/22/22 17:07	1
Sulfate	**3.8**	**J**	5.0	1.4	mg/L			08/22/22 21:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.37**				SU			07/28/22 10:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Client Sample ID: MW-D8

Date Collected: 07/28/22 09:28
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/29/22 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/04/22 00:25	5
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 20:43	5
Barium	**0.048**	**B**	0.0025	0.00070	mg/L		08/02/22 13:33	08/04/22 00:25	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/04/22 00:25	5
Boron	**0.034**	**J ^2**	0.050	0.0012	mg/L		08/02/22 13:33	08/10/22 20:04	5
Cadmium	**0.0012**		0.0010	0.00065	mg/L		08/02/22 13:33	08/10/22 20:04	5
Calcium	**77**		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 16:18	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 13:33	08/04/22 00:25	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 13:33	08/04/22 00:25	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/04/22 00:25	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 16:18	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 16:18	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/09/22 21:44	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/04/22 00:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/04/22 10:20	08/04/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**270**		5.0	5.0	mg/L			07/29/22 16:04	1
Chloride	**8.0**		2.0	1.4	mg/L			08/22/22 17:07	1
Sulfate	**17**		5.0	1.4	mg/L			08/22/22 21:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.77**				SU			07/28/22 08:28	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^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.
B	Compound was found in the blank and sample.
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
F3	Duplicate RPD exceeds the control limit
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 CCR

Job ID: 400-223692-1

Client Sample ID: MW-D6

Date Collected: 07/27/22 16:01
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590628	JAS	EET PEN	08/29/22 18:19
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 20:37
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/04/22 00:18
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 16:12
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588157	NTH	EET PEN	08/09/22 21:37
Total/NA	Prep	7470A			587426	NET	EET PEN	08/04/22 10:20 - 08/04/22 12:49 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/04/22 13:54
Total/NA	Analysis	SM 2540C		1	586857	VB	EET PEN	07/29/22 16:04
Total/NA	Analysis	SM 4500 Cl- E		1	589784	DN1	EET PEN	08/22/22 17:07
Total/NA	Analysis	SM 4500 SO4 E		1	589801	DN1	EET PEN	08/22/22 21:39
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/28/22 15:01

Client Sample ID: MW-D7

Date Collected: 07/28/22 11:40
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590628	JAS	EET PEN	08/29/22 18:40
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588311	BAW	EET PEN	08/10/22 20:01
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 20:40
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/04/22 00:21
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 16:15
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588157	NTH	EET PEN	08/09/22 21:40
Total/NA	Prep	7470A			587426	NET	EET PEN	08/04/22 10:20 - 08/04/22 12:49 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/04/22 14:00
Total/NA	Analysis	SM 2540C		1	586857	VB	EET PEN	07/29/22 16:04
Total/NA	Analysis	SM 4500 Cl- E		1	589784	DN1	EET PEN	08/22/22 17:07
Total/NA	Analysis	SM 4500 SO4 E		1	589801	DN1	EET PEN	08/22/22 21:39
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/28/22 10:40

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-1

Client Sample ID: MW-D8

Date Collected: 07/28/22 09:28
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590628	JAS	EET PEN	08/29/22 19:01
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588311	BAW	EET PEN	08/10/22 20:04
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 20:43
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/04/22 00:25
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 16:18
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588157	NTH	EET PEN	08/09/22 21:44
Total/NA	Prep	7470A			587426	NET	EET PEN	08/04/22 10:20 - 08/04/22 12:49 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/04/22 14:01
Total/NA	Analysis	SM 2540C		1	586857	VB	EET PEN	07/29/22 16:04
Total/NA	Analysis	SM 4500 Cl- E		1	589784	DN1	EET PEN	08/22/22 17:07
Total/NA	Analysis	SM 4500 SO4 E		1	589801	DN1	EET PEN	08/22/22 21:39
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/28/22 08:28

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

HPLC/IC

Analysis Batch: 590628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	300.0	
400-223692-2	MW-D7	Total/NA	Water	300.0	
400-223692-3	MW-D8	Total/NA	Water	300.0	
MB 400-590628/5	Method Blank	Total/NA	Water	300.0	
LCS 400-590628/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-590628/7	Lab Control Sample Dup	Total/NA	Water	300.0	
400-224881-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-224881-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 587228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total Recoverable	Water	3005A	
400-223692-2	MW-D7	Total Recoverable	Water	3005A	
400-223692-3	MW-D8	Total Recoverable	Water	3005A	
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-223534-G-6-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-223534-G-6-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 587426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	7470A	
400-223692-2	MW-D7	Total/NA	Water	7470A	
400-223692-3	MW-D8	Total/NA	Water	7470A	
MB 400-587426/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-587426/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-223765-E-1-B MS	Matrix Spike	Dissolved	Water	7470A	
400-223765-E-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	
400-223877-A-11-D MS	Matrix Spike	Total/NA	Water	7470A	

Analysis Batch: 587476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total Recoverable	Water	6020	587228
400-223692-2	MW-D7	Total Recoverable	Water	6020	587228
400-223692-3	MW-D8	Total Recoverable	Water	6020	587228
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	6020	587228
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587228
400-223534-G-6-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	587228
400-223534-G-6-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	587228

Analysis Batch: 587572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	7470A	587426
400-223692-2	MW-D7	Total/NA	Water	7470A	587426
400-223692-3	MW-D8	Total/NA	Water	7470A	587426
MB 400-587426/14-A	Method Blank	Total/NA	Water	7470A	587426
LCS 400-587426/15-A	Lab Control Sample	Total/NA	Water	7470A	587426
400-223765-E-1-B MS	Matrix Spike	Dissolved	Water	7470A	587426
400-223765-E-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	587426

Metals (Continued)

Analysis Batch: 587572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223877-A-11-D MS	Matrix Spike	Total/NA	Water	7470A	587426

Analysis Batch: 587853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total Recoverable	Water	6020	587228
400-223692-2	MW-D7	Total Recoverable	Water	6020	587228
400-223692-3	MW-D8	Total Recoverable	Water	6020	587228
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	6020	587228
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587228

Analysis Batch: 588157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total Recoverable	Water	6020	587228
400-223692-2	MW-D7	Total Recoverable	Water	6020	587228
400-223692-3	MW-D8	Total Recoverable	Water	6020	587228

Analysis Batch: 588311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-2	MW-D7	Total Recoverable	Water	6020	587228
400-223692-3	MW-D8	Total Recoverable	Water	6020	587228
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587228

Analysis Batch: 588708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total Recoverable	Water	6020	587228
400-223692-2	MW-D7	Total Recoverable	Water	6020	587228
400-223692-3	MW-D8	Total Recoverable	Water	6020	587228
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	6020	587228

General Chemistry

Analysis Batch: 586857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	SM 2540C	
400-223692-2	MW-D7	Total/NA	Water	SM 2540C	
400-223692-3	MW-D8	Total/NA	Water	SM 2540C	
MB 400-586857/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-586857/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-223708-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 589784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	SM 4500 Cl- E	
400-223692-2	MW-D7	Total/NA	Water	SM 4500 Cl- E	
400-223692-3	MW-D8	Total/NA	Water	SM 4500 Cl- E	
MB 400-589784/34	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-589784/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-589784/35	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-589784/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-223692-1 MS	MW-D6	Total/NA	Water	SM 4500 Cl- E	
400-223692-1 MSD	MW-D6	Total/NA	Water	SM 4500 Cl- E	

General Chemistry

Analysis Batch: 589801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	SM 4500 SO4 E	
400-223692-2	MW-D7	Total/NA	Water	SM 4500 SO4 E	
400-223692-3	MW-D8	Total/NA	Water	SM 4500 SO4 E	
MB 400-589801/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-589801/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-589801/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-223692-1 MS	MW-D6	Total/NA	Water	SM 4500 SO4 E	
400-223692-1 MSD	MW-D6	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 586803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	Field Sampling	
400-223692-2	MW-D7	Total/NA	Water	Field Sampling	
400-223692-3	MW-D8	Total/NA	Water	Field Sampling	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-590628/5
Matrix: Water
Analysis Batch: 590628

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.30	mg/L			08/29/22 11:43	1

Lab Sample ID: LCS 400-590628/6
Matrix: Water
Analysis Batch: 590628

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			10.0	10.8		mg/L		108	90 - 110		

Lab Sample ID: LCSD 400-590628/7
Matrix: Water
Analysis Batch: 590628

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride			10.0	10.8		mg/L		108	90 - 110	0	15

Lab Sample ID: 400-224881-H-1 MS
Matrix: Water
Analysis Batch: 590628

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	ND		10.0	11.3		mg/L		113	80 - 120		

Lab Sample ID: 400-224881-H-1 MSD
Matrix: Water
Analysis Batch: 590628

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	ND		10.0	10.7		mg/L		107	80 - 120	5	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-587228/1-A ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/03/22 22:50	5
Barium	0.00139	J	0.0025	0.00070	mg/L		08/02/22 13:33	08/03/22 22:50	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/03/22 22:50	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 13:33	08/03/22 22:50	5
Cadmium	ND		0.0010	0.00065	mg/L		08/02/22 13:33	08/03/22 22:50	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 13:33	08/03/22 22:50	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 13:33	08/03/22 22:50	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/03/22 22:50	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/03/22 22:50	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/03/22 22:50	5

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

Lab Sample ID: MB 400-587228/1-A ^5
Matrix: Water
Analysis Batch: 587853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 15:37	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 15:37	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 15:37	5

Lab Sample ID: MB 400-587228/1-A ^5
Matrix: Water
Analysis Batch: 588708

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 19:57	5

Lab Sample ID: LCS 400-587228/2-A ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0526		mg/L		105	80 - 120
Barium	0.0500	0.0491		mg/L		98	80 - 120
Beryllium	0.0500	0.0485		mg/L		97	80 - 120
Boron	0.100	0.0940	^3+	mg/L		94	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.0500	0.0514		mg/L		103	80 - 120
Cobalt	0.0500	0.0522		mg/L		104	80 - 120
Lead	0.0500	0.0519		mg/L		104	80 - 120
Selenium	0.0500	0.0556		mg/L		111	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: LCS 400-587228/2-A ^5
Matrix: Water
Analysis Batch: 587853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	4.97		mg/L		99	80 - 120
Lithium	0.0500	0.0442		mg/L		88	80 - 120
Molybdenum	0.0500	0.0504		mg/L		101	80 - 120

Lab Sample ID: LCS 400-587228/2-A ^5
Matrix: Water
Analysis Batch: 588311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0595	^6+ ^1+	mg/L		119	80 - 120

Lab Sample ID: 400-223534-G-6-B MS ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0517		mg/L		103	75 - 125
Barium	0.40	B	0.0500	0.427	4	mg/L		62	75 - 125

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

Lab Sample ID: 400-223534-G-6-B MS ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0469		mg/L		94	75 - 125
Cadmium	ND	L	0.0500	0.0469		mg/L		94	75 - 125
Chromium	ND		0.0500	0.0501		mg/L		100	75 - 125
Cobalt	0.0047		0.0500	0.0551		mg/L		101	75 - 125
Lead	0.033		0.0500	0.0833		mg/L		102	75 - 125
Selenium	0.0021	^2	0.0500	0.0512		mg/L		98	75 - 125
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125

Lab Sample ID: 400-223534-G-6-C MSD ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0500		mg/L		100	75 - 125	3	20
Barium	0.40	B	0.0500	0.423	4	mg/L		54	75 - 125	1	20
Beryllium	ND		0.0500	0.0440		mg/L		88	75 - 125	6	20
Cadmium	ND	L	0.0500	0.0452		mg/L		90	75 - 125	4	20
Chromium	ND		0.0500	0.0472		mg/L		94	75 - 125	6	20
Cobalt	0.0047		0.0500	0.0529		mg/L		96	75 - 125	4	20
Lead	0.033		0.0500	0.0804		mg/L		96	75 - 125	4	20
Selenium	0.0021	^2	0.0500	0.0514		mg/L		99	75 - 125	0	20
Thallium	ND		0.0100	0.00967		mg/L		97	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-587426/14-A
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/04/22 10:20	08/04/22 13:11	1

Lab Sample ID: LCS 400-587426/15-A
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00111		mg/L		110	80 - 120

Lab Sample ID: 400-223877-A-11-D MS
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 587426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00016	J	0.00201	0.00196		mg/L		89	80 - 120

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

Lab Sample ID: 400-223765-E-1-B MS
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 587426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00209		mg/L		104	80 - 120

Lab Sample ID: 400-223765-E-1-C MSD
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 587426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00198		mg/L		98	80 - 120	6	20

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

Lab Sample ID: MB 400-586857/1
Matrix: Water
Analysis Batch: 586857

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			07/29/22 16:04	1

Lab Sample ID: LCS 400-586857/2
Matrix: Water
Analysis Batch: 586857

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	260		mg/L		89	78 - 122

Lab Sample ID: 400-223708-A-1 DU
Matrix: Water
Analysis Batch: 586857

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		256	F3	mg/L		31	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-589784/34
Matrix: Water
Analysis Batch: 589784

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			08/22/22 17:07	1

Lab Sample ID: MB 400-589784/5
Matrix: Water
Analysis Batch: 589784

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			08/22/22 17:07	1

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

Lab Sample ID: LCS 400-589784/35
Matrix: Water
Analysis Batch: 589784

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	49.9		mg/L		100	90 - 110

Lab Sample ID: MRL 400-589784/7
Matrix: Water
Analysis Batch: 589784

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	1.94	J	mg/L		97	50 - 150

Lab Sample ID: 400-223692-1 MS
Matrix: Water
Analysis Batch: 589784

Client Sample ID: MW-D6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.0		10.0	14.4		mg/L		95	73 - 120

Lab Sample ID: 400-223692-1 MSD
Matrix: Water
Analysis Batch: 589784

Client Sample ID: MW-D6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.0		10.0	14.4		mg/L		95	73 - 120	0	8

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-589801/5
Matrix: Water
Analysis Batch: 589801

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			08/22/22 21:39	1

Lab Sample ID: LCS 400-589801/6
Matrix: Water
Analysis Batch: 589801

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	14.3		mg/L		95	90 - 110

Lab Sample ID: MRL 400-589801/7
Matrix: Water
Analysis Batch: 589801

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	3.77	J	mg/L		75	50 - 150

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

Lab Sample ID: 400-223692-1 MS
Matrix: Water
Analysis Batch: 589801

Client Sample ID: MW-D6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	2.0	J	10.0	12.1		mg/L		101	77 - 128		

Lab Sample ID: 400-223692-1 MSD
Matrix: Water
Analysis Batch: 589801

Client Sample ID: MW-D6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.0	J	10.0	12.1		mg/L		100	77 - 128	0	5

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone: 334-261-9971	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): Standard			
State, Zip: GA, 30144	Compliance Project: (Δ Yes) Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D6	7/27/22	16:01	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 8.78
MW-D7	7/28/22	11:40	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 8.37
MW-D8	7/28/22	9:28	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.77
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-223692 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Tristan Orndorff	7/28/22	Geosyntec	FedEx	7/28/22	
2				MO	7/29/22 0911	GBMS
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5°C IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223692-1

Login Number: 223692
List Number: 1
Creator: Whitley, Adrian

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.	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	2.5°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 <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. Job ID: 400-223692-1
Project/Site: Crisp County CCR

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-223692-2
Laboratory Sample Delivery Group: Rads
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Authorized for release by:
8/31/2022 8:44:39 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Job ID: 400-223692-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223692-2

Receipt
The samples were received on 7/29/2022 9:11 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 2.5º C.

RAD
Method 9315: Radium-226 batch 576476. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D6 (400-223692-1), MW-D7 (400-223692-2), MW-D8 (400-223692-3), (LCS 160-576476/2-A), (LCSD 160-576476/3-A) and (MB 160-576476/1-A)

Method 9320: Radium-228 batch 576482. The method blank (MB) activity is above the MDC and RL. The following associated samples are below the RL for the contaminant therefore, re-analysis is not required. The data have been reported (MB 160-576482/1-A)

Method 9320: Radium-228 batch 576482. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D6 (400-223692-1), MW-D8 (400-223692-3), (LCS 160-576482/2-A), (LCSD 160-576482/3-A) and (MB 160-576482/1-A)

Method 9320: Radium-228 batch 579345. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D7 (400-223692-2), (LCS 160-579345/2-A), (LCSD 160-579345/3-A) and (MB 160-579345/1-A)

Method PrecSep_0: Radium-228 Prep Batch 160-576482. Insufficient sample volume was available to perform a sample duplica for the following samples: MW-D6 (400-223692-1), MW-D7 (400-223692-2) and MW-D8 (400-223692-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-576476. Insufficient sample volume was available to perform a sample duplic for the following samples: MW-D6 (400-223692-1), MW-D7 (400-223692-2) and MW-D8 (400-223692-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-2
SDG: Rads

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 CCR

Job ID: 400-223692-2
SDG: Rads

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223692-1	MW-D6	Water	07/27/22 16:01	07/29/22 09:11
400-223692-2	MW-D7	Water	07/28/22 11:40	07/29/22 09:11
400-223692-3	MW-D8	Water	07/28/22 09:28	07/29/22 09:11

Client Sample ID: MW-D6

Date Collected: 07/27/22 16:01
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0123	U	0.0449	0.0449	1.00	0.0879	pCi/L	08/04/22 10:28	08/29/22 19:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.5*		*40 - 110*	*08/04/22 10:28*	*08/29/22 19:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0650	U	0.231	0.231	1.00	0.455	pCi/L	08/04/22 10:58	08/18/22 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.5*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:36*	*1*
Y Carrier	*90.1*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:36*	*1*

Method: 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	-0.0527	U	0.235	0.235	5.00	0.455	pCi/L		08/30/22 16:17	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-2
SDG: Rads

Client Sample ID: MW-D7

Date Collected: 07/28/22 11:40
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-2

Matrix: Water

Method: 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	0.0670	0.0672	1.00	0.111	pCi/L	08/04/22 10:28	08/29/22 19:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*40 - 110*	*08/04/22 10:28*	*08/29/22 19:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.226	U	0.339	0.340	1.00	0.574	pCi/L	08/24/22 14:19	08/30/22 13:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*40 - 110*	*08/24/22 14:19*	*08/30/22 13:05*	*1*
Y Carrier	*85.2*		*40 - 110*	*08/24/22 14:19*	*08/30/22 13:05*	*1*

Method: 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	0.279	U	0.346	0.347	5.00	0.574	pCi/L		08/31/22 11:34	1

Client Sample ID: MW-D8

Date Collected: 07/28/22 09:28
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0483	U	0.0674	0.0675	1.00	0.114	pCi/L	08/04/22 10:28	08/29/22 19:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*08/04/22 10:28*	*08/29/22 19:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.632**		0.326	0.331	1.00	0.454	pCi/L	08/04/22 10:58	08/18/22 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:37*	*1*
Y Carrier	*90.8*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:37*	*1*

Method: 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	**0.680**		0.333	0.338	5.00	0.454	pCi/L		08/30/22 16:17	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-2
SDG: Rads

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 CCR

Job ID: 400-223692-2
SDG: Rads

Client Sample ID: MW-D6

Date Collected: 07/27/22 16:01
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576476	MS	EET SL	08/04/22 10:28
Total/NA	Analysis	9315		1	579857	CLP	EET SL	08/29/22 19:25
Total/NA	Prep	PrecSep_0			576482	MS	EET SL	08/04/22 10:58
Total/NA	Analysis	9320		1	578550	CLP	EET SL	08/18/22 11:36
Total/NA	Analysis	Ra226_Ra228		1	580052	SCB	EET SL	08/30/22 16:17

Client Sample ID: MW-D7

Date Collected: 07/28/22 11:40
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576476	MS	EET SL	08/04/22 10:28
Total/NA	Analysis	9315		1	579860	CLP	EET SL	08/29/22 19:26
Total/NA	Prep	PrecSep_0			579345	BMP	EET SL	08/24/22 14:19
Total/NA	Analysis	9320		1	580031	FLC	EET SL	08/30/22 13:05
Total/NA	Analysis	Ra226_Ra228		1	580133	SCB	EET SL	08/31/22 11:34

Client Sample ID: MW-D8

Date Collected: 07/28/22 09:28
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223692-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576476	MS	EET SL	08/04/22 10:28
Total/NA	Analysis	9315		1	579860	CLP	EET SL	08/29/22 19:26
Total/NA	Prep	PrecSep_0			576482	MS	EET SL	08/04/22 10:58
Total/NA	Analysis	9320		1	578550	CLP	EET SL	08/18/22 11:37
Total/NA	Analysis	Ra226_Ra228		1	580052	SCB	EET SL	08/30/22 16:17

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-2
SDG: Rads

Rad

Prep Batch: 576476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	PrecSep-21	
400-223692-2	MW-D7	Total/NA	Water	PrecSep-21	
400-223692-3	MW-D8	Total/NA	Water	PrecSep-21	
MB 160-576476/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-576476/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-576476/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 576482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-1	MW-D6	Total/NA	Water	PrecSep_0	
400-223692-3	MW-D8	Total/NA	Water	PrecSep_0	
MB 160-576482/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-576482/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-576482/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 579345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223692-2	MW-D7	Total/NA	Water	PrecSep_0	
MB 160-579345/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-579345/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-579345/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-576476/1-A
Matrix: Water
Analysis Batch: 579857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576476

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01124	U	0.0344	0.0344	1.00	0.0831	pCi/L	08/04/22 10:28	08/29/22 15:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*40 - 110*	*08/04/22 10:28*	*08/29/22 15:55*	*1*

Lab Sample ID: LCS 160-576476/2-A
Matrix: Water
Analysis Batch: 579857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576476

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.38		1.07	1.00	0.110	pCi/L	92	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*

Lab Sample ID: LCSD 160-576476/3-A
Matrix: Water
Analysis Batch: 579857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576476

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.08		1.14	1.00	0.0916	pCi/L	98	75 - 125	0.31	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*92.5*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-576482/1-A
Matrix: Water
Analysis Batch: 578546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576482

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.102		0.375	0.388	1.00	0.448	pCi/L	08/04/22 10:58	08/18/22 11:23	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:23*	*1*
Y Carrier	*89.7*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:23*	*1*

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

Lab Sample ID: LCS 160-576482/2-A
Matrix: Water
Analysis Batch: 578569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576482

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.35	8.685		1.15	1.00	0.440	pCi/L	104	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

Lab Sample ID: LCSD 160-576482/3-A
Matrix: Water
Analysis Batch: 578569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576482

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.35	8.729		1.19	1.00	0.473	pCi/L	104	75 - 125	0.02	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*92.5*		*40 - 110*
Y Carrier	*89.0*		*40 - 110*

Lab Sample ID: MB 160-579345/1-A
Matrix: Water
Analysis Batch: 580031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579345

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5746		0.340	0.344	1.00	0.488	pCi/L	08/24/22 14:19	08/30/22 13:05	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*40 - 110*	*08/24/22 14:19*	*08/30/22 13:05*	*1*
Y Carrier	*86.7*		*40 - 110*	*08/24/22 14:19*	*08/30/22 13:05*	*1*

Lab Sample ID: LCS 160-579345/2-A
Matrix: Water
Analysis Batch: 580031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579345

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.32	9.949		1.30	1.00	0.444	pCi/L	120	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*
Y Carrier	*85.6*		*40 - 110*

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

Lab Sample ID: LCSD 160-579345/3-A
Matrix: Water
Analysis Batch: 580031

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 579345

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.32	8.748		1.18	1.00	0.462	pCi/L	105	75 - 125	0.48	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*
Y Carrier	*87.1*		*40 - 110*

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone: 334-261-9971	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): Standard			
State, Zip: GA, 30144	Compliance Project: (Δ Yes) Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D6	7/27/22	16:01	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 8.78
MW-D7	7/28/22	11:40	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 8.37
MW-D8	7/28/22	9:28	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.77
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-223692 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tristan Orndorff	7/28/22	Geosyntec	FedEx	7/28/22	
			MO	7/29/22 0911	GEL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.5°C IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223692-2
SDG Number: Rads

Login Number: 223692
List Number: 1
Creator: Whitley, Adrian

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.	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	2.5°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223692-2
SDG Number: Rads

Login Number: 223692
List Number: 2
Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis
List Creation: 08/01/22 12:26 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223692-2
SDG: Rads

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-22 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22 *
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-22 *
West Virginia DEP	State	381	10-31-22

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

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ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-223705-1
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Authorized for release by:
9/27/2022 3:33:31 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Job ID: 400-223705-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223705-1

Comments
Reagent manufacturer delays prevented analysis by SM 4500F-C. Analysis performed by EPA 300.0 outside method-specified holding time. MW-D6 (400-223692-1), MW-D7 (400-223692-2), MW-D8 (400-223692-3), MW-U2 (400-223705-1), MW-D9 (400-223705-2), MW-D4 (400-223708-1), MW-D5 (400-223708-2) and DUP (400-223708-3)

Receipt
The samples were received on 7/29/2022 9:11 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 5.2º C.

HPLC/IC
Method 300.0: The following samples were analyzed outside of analytical holding time due to samples being activated outside o hold time: MW-U2 (400-223705-1) and MW-D9 (400-223705-2).

Method 300.0: The CCV recovered outside criteria for Fluoride; however, the preceding and subsequent CCV were within criteri was the MS/MSD and LCS/LCSD; therefore, the data is reported. (CCV 400-590628/15)

Metals
Method 6020: The CRI associated with batch 400-587476 recovered above the upper control limit for Boron. The LCS, MS, and MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. The associate LCS, MS, and MSD are impacted: MW-U2 (400-223705-1), MW-D9 (400-223705-2), (LCS 400-587228/2-A ^5) and (MB 400-587228/1-A ^5).

Method 6020: The ICV for batch 400-587476 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

Method 6020: The initial calibration verification (ICV) and ICSA result for batch 400-588311 was above the upper control limit. T laboratory control spike results was within the acceptable limits, and have been reported as qualified data.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-587116 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 SO4 E: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-U2 (400-223705-1). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-589801 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Client Sample ID: MW-U2 — Lab Sample ID: 400-223705-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.45	J H	1.0	0.30	mg/L	1		300.0	Total/NA
Barium	0.043	B	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Cadmium	0.0020		0.0010	0.00065	mg/L	5		6020	Total Recoverable
Calcium	39		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00068	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	50	F1	10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA
Field pH	8.55				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9 — Lab Sample ID: 400-223705-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0015		0.0013	0.0012	mg/L	5		6020	Total Recoverable
Barium	0.042	B	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	53		0.25	0.13	mg/L	5		6020	Total Recoverable
Molybdenum	0.0023	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.47				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET PEN
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223705-1	MW-U2	Water	07/27/22 13:53	07/29/22 09:11
400-223705-2	MW-D9	Water	07/28/22 09:50	07/29/22 09:11

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Client Sample ID: MW-U2

Date Collected: 07/27/22 13:53
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.45**	**J H**	1.0	0.30	mg/L			08/29/22 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/04/22 00:05	5
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 20:31	5
Barium	**0.043**	**B**	0.0025	0.00070	mg/L		08/02/22 13:33	08/04/22 00:05	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/04/22 00:05	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 13:33	08/04/22 00:05	5
Cadmium	**0.0020**		0.0010	0.00065	mg/L		08/02/22 13:33	08/05/22 15:50	5
Calcium	**39**		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 15:50	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 13:33	08/04/22 00:05	5
Cobalt	**0.00068**	**J**	0.0025	0.00056	mg/L		08/02/22 13:33	08/04/22 00:05	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/04/22 00:05	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 15:50	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 15:50	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/09/22 21:30	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/04/22 00:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:45	08/03/22 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**230**		5.0	5.0	mg/L			08/01/22 15:21	1
Chloride	**2.4**		2.0	1.4	mg/L			08/22/22 17:07	1
Sulfate	**50**	**F1**	10	2.8	mg/L			08/22/22 21:39	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.55**				SU			07/27/22 12:53	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Client Sample ID: MW-D9

Date Collected: 07/28/22 09:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/29/22 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/04/22 00:08	5
Arsenic	**0.0015**		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 20:34	5
Barium	**0.042**	**B**	0.0025	0.00070	mg/L		08/02/22 13:33	08/04/22 00:08	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/04/22 00:08	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 13:33	08/04/22 00:08	5
Cadmium	ND		0.0010	0.00065	mg/L		08/02/22 13:33	08/05/22 15:53	5
Calcium	**53**		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 15:53	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 13:33	08/04/22 00:08	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 13:33	08/04/22 00:08	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/04/22 00:08	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 15:53	5
Molybdenum	**0.0023**	**J**	0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 15:53	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/09/22 21:34	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/04/22 00:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:45	08/03/22 18:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**170**		5.0	5.0	mg/L			08/01/22 15:21	1
Chloride	**2.4**		2.0	1.4	mg/L			08/22/22 17:07	1
Sulfate	**2.0**	**J**	5.0	1.4	mg/L			08/22/22 21:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.47**				SU			07/28/22 08:50	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard 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.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
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 CCR

Job ID: 400-223705-1

Client Sample ID: MW-U2

Date Collected: 07/27/22 13:53
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590628	JAS	EET PEN	08/29/22 20:03
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 20:31
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/04/22 00:05
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 15:50
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588157	NTH	EET PEN	08/09/22 21:30
Total/NA	Prep	7470A			587253	NET	EET PEN	08/03/22 10:45 - 08/03/22 13:31 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/03/22 18:25
Total/NA	Analysis	SM 2540C		1	587116	VB	EET PEN	08/01/22 15:21
Total/NA	Analysis	SM 4500 Cl- E		1	589784	DN1	EET PEN	08/22/22 17:07
Total/NA	Analysis	SM 4500 SO4 E		2	589801	DN1	EET PEN	08/22/22 21:39
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/27/22 12:53

Client Sample ID: MW-D9

Date Collected: 07/28/22 09:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590628	JAS	EET PEN	08/29/22 20:24
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 20:34
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/04/22 00:08
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 15:53
Total Recoverable	Prep	3005A			587228	KWN	EET PEN	08/02/22 13:33 - 08/02/22 16:23 [1]
Total Recoverable	Analysis	6020		5	588157	NTH	EET PEN	08/09/22 21:34
Total/NA	Prep	7470A			587253	NET	EET PEN	08/03/22 10:45 - 08/03/22 13:31 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/03/22 18:27
Total/NA	Analysis	SM 2540C		1	587116	VB	EET PEN	08/01/22 15:21
Total/NA	Analysis	SM 4500 Cl- E		1	589784	DN1	EET PEN	08/22/22 17:07
Total/NA	Analysis	SM 4500 SO4 E		1	589801	DN1	EET PEN	08/22/22 21:39
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/28/22 08:50

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

HPLC/IC

Analysis Batch: 590628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	300.0	
400-223705-2	MW-D9	Total/NA	Water	300.0	
MB 400-590628/5	Method Blank	Total/NA	Water	300.0	
LCS 400-590628/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-590628/7	Lab Control Sample Dup	Total/NA	Water	300.0	
400-224881-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-224881-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 587228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total Recoverable	Water	3005A	
400-223705-2	MW-D9	Total Recoverable	Water	3005A	
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-223534-G-6-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-223534-G-6-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 587253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	7470A	
400-223705-2	MW-D9	Total/NA	Water	7470A	
MB 400-587253/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-587253/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-223802-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-223802-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 587476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total Recoverable	Water	6020	587228
400-223705-2	MW-D9	Total Recoverable	Water	6020	587228
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	6020	587228
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587228
400-223534-G-6-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	587228
400-223534-G-6-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	587228

Analysis Batch: 587572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	7470A	587253
400-223705-2	MW-D9	Total/NA	Water	7470A	587253
MB 400-587253/14-A	Method Blank	Total/NA	Water	7470A	587253
LCS 400-587253/15-A	Lab Control Sample	Total/NA	Water	7470A	587253
400-223802-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	587253
400-223802-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	587253

Analysis Batch: 587853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total Recoverable	Water	6020	587228
400-223705-2	MW-D9	Total Recoverable	Water	6020	587228
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	6020	587228

Metals (Continued)

Analysis Batch: 587853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-587228/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587228

Analysis Batch: 588157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total Recoverable	Water	6020	587228
400-223705-2	MW-D9	Total Recoverable	Water	6020	587228

Analysis Batch: 588708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total Recoverable	Water	6020	587228
400-223705-2	MW-D9	Total Recoverable	Water	6020	587228
MB 400-587228/1-A ^5	Method Blank	Total Recoverable	Water	6020	587228

General Chemistry

Analysis Batch: 587116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	SM 2540C	
400-223705-2	MW-D9	Total/NA	Water	SM 2540C	
MB 400-587116/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-587116/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-223537-D-14 DU	Duplicate	Total/NA	Water	SM 2540C	
400-223705-1 DU	MW-U2	Total/NA	Water	SM 2540C	

Analysis Batch: 589784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	SM 4500 Cl- E	
400-223705-2	MW-D9	Total/NA	Water	SM 4500 Cl- E	
MB 400-589784/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-589784/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-589784/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-223705-2 MS	MW-D9	Total/NA	Water	SM 4500 Cl- E	
400-223705-2 MSD	MW-D9	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 589801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	SM 4500 SO4 E	
400-223705-2	MW-D9	Total/NA	Water	SM 4500 SO4 E	
MB 400-589801/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-589801/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-589801/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-223705-1 MS	MW-U2	Total/NA	Water	SM 4500 SO4 E	
400-223705-1 MSD	MW-U2	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 586803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	Field Sampling	
400-223705-2	MW-D9	Total/NA	Water	Field Sampling	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-590628/5
Matrix: Water
Analysis Batch: 590628

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.30	mg/L			08/29/22 11:43	1

Lab Sample ID: LCS 400-590628/6
Matrix: Water
Analysis Batch: 590628

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			10.0	10.8		mg/L		108	90 - 110		

Lab Sample ID: LCSD 400-590628/7
Matrix: Water
Analysis Batch: 590628

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride			10.0	10.8		mg/L		108	90 - 110	0	15

Lab Sample ID: 400-224881-H-1 MS
Matrix: Water
Analysis Batch: 590628

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	ND		10.0	11.3		mg/L		113	80 - 120		

Lab Sample ID: 400-224881-H-1 MSD
Matrix: Water
Analysis Batch: 590628

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	ND		10.0	10.7		mg/L		107	80 - 120	5	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-587228/1-A ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 13:33	08/03/22 22:50	5
Barium	0.00139	J	0.0025	0.00070	mg/L		08/02/22 13:33	08/03/22 22:50	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 13:33	08/03/22 22:50	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 13:33	08/03/22 22:50	5
Cadmium	ND		0.0010	0.00065	mg/L		08/02/22 13:33	08/03/22 22:50	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 13:33	08/03/22 22:50	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 13:33	08/03/22 22:50	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 13:33	08/03/22 22:50	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 13:33	08/03/22 22:50	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 13:33	08/03/22 22:50	5

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

Lab Sample ID: MB 400-587228/1-A ^5
Matrix: Water
Analysis Batch: 587853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.25	0.13	mg/L		08/02/22 13:33	08/05/22 15:37	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 13:33	08/05/22 15:37	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 13:33	08/05/22 15:37	5

Lab Sample ID: MB 400-587228/1-A ^5
Matrix: Water
Analysis Batch: 588708

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 13:33	08/12/22 19:57	5

Lab Sample ID: LCS 400-587228/2-A ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0526		mg/L		105	80 - 120
Barium	0.0500	0.0491		mg/L		98	80 - 120
Beryllium	0.0500	0.0485		mg/L		97	80 - 120
Boron	0.100	0.0940	^3+	mg/L		94	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.0500	0.0514		mg/L		103	80 - 120
Cobalt	0.0500	0.0522		mg/L		104	80 - 120
Lead	0.0500	0.0519		mg/L		104	80 - 120
Selenium	0.0500	0.0556		mg/L		111	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: LCS 400-587228/2-A ^5
Matrix: Water
Analysis Batch: 587853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	4.97		mg/L		99	80 - 120
Lithium	0.0500	0.0442		mg/L		88	80 - 120
Molybdenum	0.0500	0.0504		mg/L		101	80 - 120

Lab Sample ID: 400-223534-G-6-B MS ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0517		mg/L		103	75 - 125
Barium	0.40	B	0.0500	0.427	4	mg/L		62	75 - 125
Beryllium	ND		0.0500	0.0469		mg/L		94	75 - 125
Cadmium	ND	L	0.0500	0.0469		mg/L		94	75 - 125
Chromium	ND		0.0500	0.0501		mg/L		100	75 - 125
Cobalt	0.0047		0.0500	0.0551		mg/L		101	75 - 125
Lead	0.033		0.0500	0.0833		mg/L		102	75 - 125
Selenium	0.0021	^2	0.0500	0.0512		mg/L		98	75 - 125

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

Lab Sample ID: 400-223534-G-6-B MS ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125

Lab Sample ID: 400-223534-G-6-C MSD ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 587228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0500		mg/L		100	75 - 125	3	20
Barium	0.40	B	0.0500	0.423	4	mg/L		54	75 - 125	1	20
Beryllium	ND		0.0500	0.0440		mg/L		88	75 - 125	6	20
Cadmium	ND	L	0.0500	0.0452		mg/L		90	75 - 125	4	20
Chromium	ND		0.0500	0.0472		mg/L		94	75 - 125	6	20
Cobalt	0.0047		0.0500	0.0529		mg/L		96	75 - 125	4	20
Lead	0.033		0.0500	0.0804		mg/L		96	75 - 125	4	20
Selenium	0.0021	^2	0.0500	0.0514		mg/L		99	75 - 125	0	20
Thallium	ND		0.0100	0.00967		mg/L		97	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-587253/14-A
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:45	08/03/22 17:34	1

Lab Sample ID: LCS 400-587253/15-A
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00102		mg/L		102	80 - 120

Lab Sample ID: 400-223802-C-1-B MS
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 587253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00194		mg/L		96	80 - 120

Lab Sample ID: 400-223802-C-1-C MSD
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 587253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00184		mg/L		92	80 - 120	5	20

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

Lab Sample ID: MB 400-587116/1
Matrix: Water
Analysis Batch: 587116

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			08/01/22 15:21	1

Lab Sample ID: LCS 400-587116/2
Matrix: Water
Analysis Batch: 587116

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	340		mg/L		116	78 - 122

Lab Sample ID: 400-223537-D-14 DU
Matrix: Water
Analysis Batch: 587116

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	50		52.0		mg/L		4	5

Lab Sample ID: 400-223705-1 DU
Matrix: Water
Analysis Batch: 587116

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	230		242	F3	mg/L		7	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-589784/5
Matrix: Water
Analysis Batch: 589784

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			08/22/22 17:07	1

Lab Sample ID: LCS 400-589784/6
Matrix: Water
Analysis Batch: 589784

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	50.4		mg/L		101	90 - 110

Lab Sample ID: MRL 400-589784/7
Matrix: Water
Analysis Batch: 589784

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	1.94	J	mg/L		97	50 - 150

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

Lab Sample ID: 400-223705-2 MS
Matrix: Water
Analysis Batch: 589784

Client Sample ID: MW-D9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.4		10.0	11.8		mg/L		94	73 - 120

Lab Sample ID: 400-223705-2 MSD
Matrix: Water
Analysis Batch: 589784

Client Sample ID: MW-D9
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		10.0	11.7		mg/L		93	73 - 120	1	8

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-589801/5
Matrix: Water
Analysis Batch: 589801

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			08/22/22 21:39	1

Lab Sample ID: LCS 400-589801/6
Matrix: Water
Analysis Batch: 589801

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	14.3		mg/L		95	90 - 110

Lab Sample ID: MRL 400-589801/7
Matrix: Water
Analysis Batch: 589801

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	3.77	J	mg/L		75	50 - 150

Lab Sample ID: 400-223705-1 MS
Matrix: Water
Analysis Batch: 589801

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	50	F1	20.0	59.3	F1	mg/L		45	77 - 128

Lab Sample ID: 400-223705-1 MSD
Matrix: Water
Analysis Batch: 589801

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	50	F1	20.0	59.7	F1	mg/L		47	77 - 128	1	5

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone: 334-261-9971	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-42	7/27/22	13:53	G	Water			X	X	X	X	X	X	X	X		pH = 8.55
MW-D9	7/28/22	9:50	G	Water			X	X	X	X	X	X	X	X		pH = 8.47
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-223705 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tristan Orndorff	7/28/22 17:00	GEOSyntec	FedEX	7/28/22	
Relinquished by:	Date/Time:	Company	Received by: MD	Date/Time: 7/29/22 0911	Company GGCS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.2°C IR16

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223705-1

Login Number: 223705
List Number: 1
Creator: DeKlerk, Michaela

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.	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	5.2°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 <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. Job ID: 400-223705-1
Project/Site: Crisp County CCR

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-223705-2
Laboratory Sample Delivery Group: Rads
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Authorized for release by:
8/31/2022 8:38:49 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

LINKS

Review your project results through my EOL

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-2
SDG: Rads

Job ID: 400-223705-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223705-2

Receipt
The samples were received on 7/29/2022 9:11 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 5.2º C.

RAD
Method 9315: Radium-226 batch 576476. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U2 (400-223705-1), MW-D9 (400-223705-2), (LCS 160-576476/2-A), (LCSD 160-576476/3-A) and (MB 160-576476/1-A)

Method 9320: Radium-228 batch 576482. The method blank (MB) activity is above the MDC and RL. The following associated samples are below the RL for the contaminant therefore, re-analysis is not required. The data have been reported (MB 160-576482/1-A)

Method 9320: Radium-228 batch 576482. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U2 (400-223705-1), MW-D9 (400-223705-2), (LCS 160-576482/2-A), (LCSD 160-576482/3-A) and (MB 160-576482/1-A)

Method PrecSep_0: Radium-228 Prep Batch 160-576482. Insufficient sample volume was available to perform a sample duplica for the following samples: MW-U2 (400-223705-1) and MW-D9 (400-223705-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-576476. Insufficient sample volume was available to perform a sample duplic for the following samples: MW-U2 (400-223705-1) and MW-D9 (400-223705-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-2
SDG: Rads

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 CCR

Job ID: 400-223705-2
SDG: Rads

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223705-1	MW-U2	Water	07/27/22 13:53	07/29/22 09:11
400-223705-2	MW-D9	Water	07/28/22 09:50	07/29/22 09:11

Client Sample ID: MW-U2

Date Collected: 07/27/22 13:53
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0478	U	0.0647	0.0648	1.00	0.109	pCi/L	08/04/22 10:28	08/29/22 19:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*40 - 110*	*08/04/22 10:28*	*08/29/22 19:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.932**		0.354	0.365	1.00	0.441	pCi/L	08/04/22 10:58	08/18/22 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:37*	*1*
Y Carrier	*89.7*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:37*	*1*

Method: 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	**0.980**		0.360	0.371	5.00	0.441	pCi/L		08/30/22 16:17	1

Client Sample ID: MW-D9

Date Collected: 07/28/22 09:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0385	U	0.0769	0.0770	1.00	0.136	pCi/L	08/04/22 10:28	08/29/22 19:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*40 - 110*	*08/04/22 10:28*	*08/29/22 19:27*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.396	U	0.333	0.335	1.00	0.522	pCi/L	08/04/22 10:58	08/18/22 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:37*	*1*
Y Carrier	*90.5*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:37*	*1*

Method: 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	0.435	U	0.342	0.344	5.00	0.522	pCi/L		08/30/22 16:17	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-2
SDG: Rads

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 CCR

Job ID: 400-223705-2
SDG: Rads

Client Sample ID: MW-U2

Date Collected: 07/27/22 13:53
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576476	MS	EET SL	08/04/22 10:28
Total/NA	Analysis	9315		1	579860	CLP	EET SL	08/29/22 19:26
Total/NA	Prep	PrecSep_0			576482	MS	EET SL	08/04/22 10:58
Total/NA	Analysis	9320		1	578550	CLP	EET SL	08/18/22 11:37
Total/NA	Analysis	Ra226_Ra228		1	580052	SCB	EET SL	08/30/22 16:17

Client Sample ID: MW-D9

Date Collected: 07/28/22 09:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223705-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576476	MS	EET SL	08/04/22 10:28
Total/NA	Analysis	9315		1	579860	CLP	EET SL	08/29/22 19:27
Total/NA	Prep	PrecSep_0			576482	MS	EET SL	08/04/22 10:58
Total/NA	Analysis	9320		1	578550	CLP	EET SL	08/18/22 11:37
Total/NA	Analysis	Ra226_Ra228		1	580052	SCB	EET SL	08/30/22 16:17

Laboratory References:

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

Rad

Prep Batch: 576476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	PrecSep-21	
400-223705-2	MW-D9	Total/NA	Water	PrecSep-21	
MB 160-576476/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-576476/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-576476/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 576482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223705-1	MW-U2	Total/NA	Water	PrecSep_0	
400-223705-2	MW-D9	Total/NA	Water	PrecSep_0	
MB 160-576482/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-576482/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-576482/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-576476/1-A
Matrix: Water
Analysis Batch: 579857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576476

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01124	U	0.0344	0.0344	1.00	0.0831	pCi/L	08/04/22 10:28	08/29/22 15:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*40 - 110*	*08/04/22 10:28*	*08/29/22 15:55*	*1*

Lab Sample ID: LCS 160-576476/2-A
Matrix: Water
Analysis Batch: 579857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576476

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.38		1.07	1.00	0.110	pCi/L	92	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*

Lab Sample ID: LCSD 160-576476/3-A
Matrix: Water
Analysis Batch: 579857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576476

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.08		1.14	1.00	0.0916	pCi/L	98	75 - 125	0.31	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*92.5*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-576482/1-A
Matrix: Water
Analysis Batch: 578546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576482

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.102		0.375	0.388	1.00	0.448	pCi/L	08/04/22 10:58	08/18/22 11:23	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:23*	*1*
Y Carrier	*89.7*		*40 - 110*	*08/04/22 10:58*	*08/18/22 11:23*	*1*

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

Lab Sample ID: LCS 160-576482/2-A
Matrix: Water
Analysis Batch: 578569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576482

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.35	8.685		1.15	1.00	0.440	pCi/L	104	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

Lab Sample ID: LCSD 160-576482/3-A
Matrix: Water
Analysis Batch: 578569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576482

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.35	8.729		1.19	1.00	0.473	pCi/L	104	75 - 125	0.02	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*92.5*		*40 - 110*
Y Carrier	*89.0*		*40 - 110*

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone: 334-261-9971	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-42	7/27/22	13:53	G	Water			X	X	X	X	X	X	X	X		pH = 8.55
MW-D9	7/28/22	9:50	G	Water			X	X	X	X	X	X	X	X		pH = 8.47
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-223705 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tristan Orndorff	7/28/22 17:00	GEOSyntec	FedEX	7/28/22	
Relinquished by:	Date/Time:	Company	Received by: MD	Date/Time: 7/29/22 0911	Company GGCS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.2°C IR16

Ver: 06/08/2021

8/31/2022

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223705-2
SDG Number: Rads

Login Number: 223705
List Number: 1
Creator: DeKlerk, Michaela

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.	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	5.2°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223705-2
SDG Number: Rads

Login Number: 223705
List Number: 2
Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis
List Creation: 08/01/22 12:29 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223705-2
SDG: Rads

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-22 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22 *
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-223708-1
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Authorized for release by:
9/27/2022 3:33:51 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Job ID: 400-223708-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223708-1

Comments
Reagent manufacturer delays prevented analysis by SM 4500F-C. Analysis performed by EPA 300.0 outside method-specified holding time. MW-D6 (400-223692-1), MW-D7 (400-223692-2), MW-D8 (400-223692-3), MW-U2 (400-223705-1), MW-D9 (400-223705-2), MW-D4 (400-223708-1), MW-D5 (400-223708-2) and DUP (400-223708-3)

Receipt
The samples were received on 7/29/2022 9:11 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 4.8º C.

HPLC/IC
Method 300.0: The following samples were analyzed outside of analytical holding time due to samples being activated outside of hold time: MW-D4 (400-223708-1), MW-D5 (400-223708-2) and DUP (400-223708-3).

Metals
Method 6020: The CRI associated with batch 400-587476 recovered above the upper control limit for Boron. The LCS, MS, and MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. The associated LCS, MS, and MSD are impacted: MW-D4 (400-223708-1), DUP (400-223708-3), (LCS 400-587212/2-A ^5) and (MB 400-587212/1-A ^5).

Method 6020: The ICV for batch 400-587476 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020: The continuing calibration verification (CCV) associated with batch 400-587476 recovered above the upper control limit for Lithium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6020: The laboratory control sample (LCS) for preparation batch 400-587212 and analytical batch 400-588311 recovered outside control limits for the following analytes: Arsenic. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-587255 and analytical batch 400-587572 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-586857 was outside control limits. Sample non-homogeneity is suspected.

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

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Client Sample ID: MW-D4 — Lab Sample ID: 400-223708-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.039		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	50		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00057	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	190		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
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-D5 — Lab Sample ID: 400-223708-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.028		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	46		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	8.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.76				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP — Lab Sample ID: 400-223708-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.038		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Cadmium	0.00071	J B	0.0010	0.00065	mg/L	5		6020	Total Recoverable
Calcium	48		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	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

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET PEN
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223708-1	MW-D4	Water	07/27/22 13:25	07/29/22 09:11
400-223708-2	MW-D5	Water	07/27/22 15:50	07/29/22 09:11
400-223708-3	DUP	Water	07/27/22 13:50	07/29/22 09:11

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Client Sample ID: MW-D4

Date Collected: 07/27/22 13:25
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/26/22 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 11:37	08/03/22 22:40	5
Arsenic	ND	*+	0.0013	0.0012	mg/L		08/02/22 11:37	08/12/22 19:48	5
Barium	**0.039**		0.0025	0.00070	mg/L		08/02/22 11:37	08/03/22 22:40	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 11:37	08/03/22 22:40	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 11:37	08/03/22 22:40	5
Cadmium	ND		0.0010	0.00065	mg/L		08/02/22 11:37	08/05/22 17:47	5
Calcium	**50**		0.25	0.13	mg/L		08/02/22 11:37	08/05/22 17:47	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 11:37	08/03/22 22:40	5
Cobalt	**0.00057**	**J**	0.0025	0.00056	mg/L		08/02/22 11:37	08/03/22 22:40	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 11:37	08/03/22 22:40	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 11:37	08/05/22 17:47	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 11:37	08/05/22 17:47	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 11:37	08/03/22 22:40	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 11:37	08/03/22 22:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:24	08/03/22 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**190**		5.0	5.0	mg/L			07/29/22 16:04	1
Chloride	**3.7**		2.0	1.4	mg/L			08/01/22 23:27	1
Sulfate	**2.3**	**J**	5.0	1.4	mg/L			08/02/22 18:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.92**				SU			07/27/22 12:25	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Client Sample ID: MW-D5

Date Collected: 07/27/22 15:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/26/22 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 11:37	08/03/22 22:43	5
Arsenic	ND	*+	0.0013	0.0012	mg/L		08/02/22 11:37	08/12/22 19:51	5
Barium	**0.028**		0.0025	0.00070	mg/L		08/02/22 11:37	08/03/22 22:43	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 11:37	08/03/22 22:43	5
Boron	ND		0.050	0.0012	mg/L		08/02/22 11:37	08/10/22 18:56	5
Cadmium	ND		0.0010	0.00065	mg/L		08/02/22 11:37	08/05/22 17:50	5
Calcium	**46**		0.25	0.13	mg/L		08/02/22 11:37	08/05/22 17:50	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 11:37	08/03/22 22:43	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 11:37	08/03/22 22:43	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 11:37	08/03/22 22:43	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 11:37	08/05/22 17:50	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 11:37	08/05/22 17:50	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 11:37	08/03/22 22:43	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 11:37	08/03/22 22:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:24	08/03/22 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**220**		5.0	5.0	mg/L			07/29/22 16:04	1
Chloride	**8.3**		2.0	1.4	mg/L			08/01/22 23:27	1
Sulfate	**1.9**	**J**	5.0	1.4	mg/L			08/02/22 18:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.76**				SU			07/27/22 14:50	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Client Sample ID: DUP

Date Collected: 07/27/22 13:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	H	1.0	0.30	mg/L			08/26/22 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 11:37	08/03/22 22:47	5
Arsenic	ND	*+	0.0013	0.0012	mg/L		08/02/22 11:37	08/12/22 19:54	5
Barium	**0.038**		0.0025	0.00070	mg/L		08/02/22 11:37	08/03/22 22:47	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 11:37	08/03/22 22:47	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 11:37	08/03/22 22:47	5
Cadmium	**0.00071**	**J B**	0.0010	0.00065	mg/L		08/02/22 11:37	08/05/22 17:53	5
Calcium	**48**		0.25	0.13	mg/L		08/02/22 11:37	08/05/22 17:53	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 11:37	08/03/22 22:47	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 11:37	08/03/22 22:47	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 11:37	08/03/22 22:47	5
Lithium	ND		0.0025	0.0049	mg/L		08/02/22 11:37	08/05/22 17:53	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 11:37	08/05/22 17:53	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 11:37	08/03/22 22:47	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 11:37	08/03/22 22:47	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:24	08/03/22 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**230**		5.0	5.0	mg/L			07/29/22 16:04	1
Chloride	**4.0**		2.0	1.4	mg/L			08/01/22 23:27	1
Sulfate	**2.3**	**J**	5.0	1.4	mg/L			08/02/22 18:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.92**				SU			07/27/22 12:50	1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^3-	Reporting Limit Check Standard is outside acceptance limits, low biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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
F3	Duplicate RPD exceeds the control limit
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

Glossary (Continued)

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

Job ID: 400-223708-1

Client Sample ID: MW-D4

Date Collected: 07/27/22 13:25
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590391	JAS	EET PEN	08/26/22 17:10
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 19:48
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/03/22 22:40
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 17:47
Total/NA	Prep	7470A			587255	NET	EET PEN	08/03/22 10:24 - 08/03/22 13:31 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/03/22 17:25
Total/NA	Analysis	SM 2540C		1	586857	VB	EET PEN	07/29/22 16:04
Total/NA	Analysis	SM 4500 Cl- E		1	587168	DN1	EET PEN	08/01/22 23:27
Total/NA	Analysis	SM 4500 SO4 E		1	587299	DN1	EET PEN	08/02/22 18:11
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/27/22 12:25

Client Sample ID: MW-D5

Date Collected: 07/27/22 15:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590391	JAS	EET PEN	08/26/22 17:33
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	588311	BAW	EET PEN	08/10/22 18:56
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 19:51
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/03/22 22:43
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 17:50
Total/NA	Prep	7470A			587255	NET	EET PEN	08/03/22 10:24 - 08/03/22 13:31 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/03/22 17:27
Total/NA	Analysis	SM 2540C		1	586857	VB	EET PEN	07/29/22 16:04
Total/NA	Analysis	SM 4500 Cl- E		1	587168	DN1	EET PEN	08/01/22 23:27
Total/NA	Analysis	SM 4500 SO4 E		1	587299	DN1	EET PEN	08/02/22 18:11
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/27/22 14:50

Client Sample ID: DUP

Date Collected: 07/27/22 13:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	590391	JAS	EET PEN	08/26/22 17:56
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	588708	BAW	EET PEN	08/12/22 19:54

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-1

Client Sample ID: DUP

Date Collected: 07/27/22 13:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	587476	BAW	EET PEN	08/03/22 22:47
Total Recoverable	Prep	3005A			587212	KWN	EET PEN	08/02/22 11:37 - 08/02/22 14:14 [1]
Total Recoverable	Analysis	6020		5	587853	BAW	EET PEN	08/05/22 17:53
Total/NA	Prep	7470A			587255	NET	EET PEN	08/03/22 10:24 - 08/03/22 13:31 [1]
Total/NA	Analysis	7470A		1	587572	NET	EET PEN	08/03/22 17:32
Total/NA	Analysis	SM 2540C		1	586857	VB	EET PEN	07/29/22 16:04
Total/NA	Analysis	SM 4500 Cl- E		1	587168	DN1	EET PEN	08/01/22 23:27
Total/NA	Analysis	SM 4500 SO4 E		1	587299	DN1	EET PEN	08/02/22 18:11
Total/NA	Analysis	Field Sampling		1	586803	EHS	EET PEN	07/27/22 12:50

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

HPLC/IC

Analysis Batch: 590391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	300.0	
400-223708-2	MW-D5	Total/NA	Water	300.0	
400-223708-3	DUP	Total/NA	Water	300.0	
MB 400-590391/5	Method Blank	Total/NA	Water	300.0	
LCS 400-590391/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-590391/7	Lab Control Sample Dup	Total/NA	Water	300.0	
400-224900-B-2 MS	Matrix Spike	Total/NA	Water	300.0	
400-224900-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 587212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total Recoverable	Water	3005A	
400-223708-2	MW-D5	Total Recoverable	Water	3005A	
400-223708-3	DUP	Total Recoverable	Water	3005A	
MB 400-587212/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-587212/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-223537-E-7-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-223537-E-7-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 587255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	7470A	
400-223708-2	MW-D5	Total/NA	Water	7470A	
400-223708-3	DUP	Total/NA	Water	7470A	
MB 400-587255/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-587255/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-223767-E-1-B MS	Matrix Spike	Dissolved	Water	7470A	
400-223767-E-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 587476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total Recoverable	Water	6020	587212
400-223708-2	MW-D5	Total Recoverable	Water	6020	587212
400-223708-3	DUP	Total Recoverable	Water	6020	587212
MB 400-587212/1-A ^5	Method Blank	Total Recoverable	Water	6020	587212
LCS 400-587212/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587212
400-223537-E-7-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	587212
400-223537-E-7-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	587212

Analysis Batch: 587572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	7470A	587255
400-223708-2	MW-D5	Total/NA	Water	7470A	587255
400-223708-3	DUP	Total/NA	Water	7470A	587255
MB 400-587255/14-A	Method Blank	Total/NA	Water	7470A	587255
LCS 400-587255/15-A	Lab Control Sample	Total/NA	Water	7470A	587255
400-223767-E-1-B MS	Matrix Spike	Dissolved	Water	7470A	587255
400-223767-E-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	587255

Metals

Analysis Batch: 587853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total Recoverable	Water	6020	587212
400-223708-2	MW-D5	Total Recoverable	Water	6020	587212
400-223708-3	DUP	Total Recoverable	Water	6020	587212
MB 400-587212/1-A ^5	Method Blank	Total Recoverable	Water	6020	587212
LCS 400-587212/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587212

Analysis Batch: 588311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-2	MW-D5	Total Recoverable	Water	6020	587212
LCS 400-587212/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	587212

Analysis Batch: 588708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total Recoverable	Water	6020	587212
400-223708-2	MW-D5	Total Recoverable	Water	6020	587212
400-223708-3	DUP	Total Recoverable	Water	6020	587212
MB 400-587212/1-A ^5	Method Blank	Total Recoverable	Water	6020	587212

General Chemistry

Analysis Batch: 586857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	SM 2540C	
400-223708-2	MW-D5	Total/NA	Water	SM 2540C	
400-223708-3	DUP	Total/NA	Water	SM 2540C	
MB 400-586857/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-586857/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-223708-1 DU	MW-D4	Total/NA	Water	SM 2540C	

Analysis Batch: 587168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	SM 4500 Cl- E	
400-223708-2	MW-D5	Total/NA	Water	SM 4500 Cl- E	
400-223708-3	DUP	Total/NA	Water	SM 4500 Cl- E	
MB 400-587168/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-587168/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-587168/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-223717-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-223717-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 587299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	SM 4500 SO4 E	
400-223708-2	MW-D5	Total/NA	Water	SM 4500 SO4 E	
400-223708-3	DUP	Total/NA	Water	SM 4500 SO4 E	
MB 400-587299/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-587299/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-587299/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-223693-F-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-223693-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-223717-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 587299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223717-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 586803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	Field Sampling	
400-223708-2	MW-D5	Total/NA	Water	Field Sampling	
400-223708-3	DUP	Total/NA	Water	Field Sampling	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-590391/5
Matrix: Water
Analysis Batch: 590391

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.30	mg/L			08/26/22 12:14	1

Lab Sample ID: LCS 400-590391/6
Matrix: Water
Analysis Batch: 590391

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: LCSD 400-590391/7
Matrix: Water
Analysis Batch: 590391

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	10.0	10.6		mg/L		106	90 - 110	1	15

Lab Sample ID: 400-224900-B-2 MS
Matrix: Water
Analysis Batch: 590391

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	56		100	157		mg/L		101	80 - 120

Lab Sample ID: 400-224900-B-2 MSD
Matrix: Water
Analysis Batch: 590391

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	56		100	156		mg/L		100	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-587212/1-A ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		08/02/22 11:37	08/03/22 21:14	5
Barium	ND		0.0025	0.00070	mg/L		08/02/22 11:37	08/03/22 21:14	5
Beryllium	ND		0.0020	0.00092	mg/L		08/02/22 11:37	08/03/22 21:14	5
Boron	ND	^3+	0.050	0.0012	mg/L		08/02/22 11:37	08/03/22 21:14	5
Chromium	ND		0.0025	0.0010	mg/L		08/02/22 11:37	08/03/22 21:14	5
Cobalt	ND		0.0025	0.00056	mg/L		08/02/22 11:37	08/03/22 21:14	5
Lead	ND		0.0013	0.00081	mg/L		08/02/22 11:37	08/03/22 21:14	5
Lithium	ND	^+	0.0025	0.0049	mg/L		08/02/22 11:37	08/03/22 21:14	5
Selenium	ND		0.0013	0.00082	mg/L		08/02/22 11:37	08/03/22 21:14	5
Thallium	ND		0.00050	0.00046	mg/L		08/02/22 11:37	08/03/22 21:14	5

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

Lab Sample ID: MB 400-587212/1-A ^5
Matrix: Water
Analysis Batch: 587853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000930	J	0.0010	0.00065	mg/L		08/02/22 11:37	08/05/22 16:57	5
Calcium	ND		0.25	0.13	mg/L		08/02/22 11:37	08/05/22 16:57	5
Molybdenum	ND		0.010	0.0013	mg/L		08/02/22 11:37	08/05/22 16:57	5

Lab Sample ID: MB 400-587212/1-A ^5
Matrix: Water
Analysis Batch: 588708

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.0012	mg/L		08/02/22 11:37	08/12/22 18:58	5

Lab Sample ID: LCS 400-587212/2-A ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0523		mg/L		105	80 - 120
Barium	0.0500	0.0486		mg/L		97	80 - 120
Beryllium	0.0500	0.0470		mg/L		94	80 - 120
Boron	0.100	0.0833	^3+	mg/L		83	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.0500	0.0525		mg/L		105	80 - 120
Cobalt	0.0500	0.0522		mg/L		104	80 - 120
Lead	0.0500	0.0508		mg/L		102	80 - 120
Selenium	0.0500	0.0487		mg/L		97	80 - 120
Thallium	0.0100	0.0101		mg/L		101	80 - 120

Lab Sample ID: LCS 400-587212/2-A ^5
Matrix: Water
Analysis Batch: 587853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	4.67		mg/L		93	80 - 120
Lithium	0.0500	0.0490		mg/L		98	80 - 120
Molybdenum	0.0500	0.0527		mg/L		105	80 - 120

Lab Sample ID: LCS 400-587212/2-A ^5
Matrix: Water
Analysis Batch: 588311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0635	^6+ ^1+ * +	mg/L		127	80 - 120

Lab Sample ID: 400-223537-E-7-E MS ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0472		mg/L		94	75 - 125

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

Lab Sample ID: 400-223537-E-7-E MS ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.030	F2 ^6+ ^3- F1 ^1+ B ^2 ^5+ *+	0.0500	0.0477	^6+ F1 ^3- ^1+ ^5+	mg/L		35	75 - 125
Barium	0.016		0.0500	0.0600		mg/L		88	75 - 125
Beryllium	ND		0.0500	0.0431		mg/L		86	75 - 125
Boron	ND	^3+	0.100	0.0928	^3+	mg/L		93	75 - 125
Cadmium	ND		0.0500	0.0441		mg/L		88	75 - 125
Calcium	0.45	^6+	5.00	5.30	^6+	mg/L		97	75 - 125
Chromium	ND		0.0500	0.0471		mg/L		94	75 - 125
Cobalt	0.00077	J	0.0500	0.0467		mg/L		92	75 - 125
Lead	ND		0.0500	0.0462		mg/L		92	75 - 125
Lithium	0.0090	^+ ^2	0.0500	0.0523	^+	mg/L		87	75 - 125
Molybdenum	ND	^6+	0.0500	0.0440	^6+	mg/L		88	75 - 125
Selenium	ND		0.0500	0.0454		mg/L		91	75 - 125
Thallium	ND		0.0100	0.00896		mg/L		90	75 - 125

Lab Sample ID: 400-223537-E-7-F MSD ^5
Matrix: Water
Analysis Batch: 587476

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 587212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0514		mg/L		103	75 - 125	8	20
Arsenic	0.030	F2 ^6+ ^3- F1 ^1+ B ^2 ^5+ *+	0.0500	0.0179	^6+ ^3- ^1+ F2 F1 ^5+	mg/L		-25	75 - 125	91	20
Barium	0.016		0.0500	0.0645		mg/L		97	75 - 125	7	20
Beryllium	ND		0.0500	0.0455		mg/L		91	75 - 125	5	20
Boron	ND	^3+	0.100	0.0962	^3+	mg/L		96	75 - 125	4	20
Cadmium	ND		0.0500	0.0467		mg/L		93	75 - 125	6	20
Calcium	0.45	^6+	5.00	5.40	^6+	mg/L		99	75 - 125	2	20
Chromium	ND		0.0500	0.0478		mg/L		96	75 - 125	2	20
Cobalt	0.00077	J	0.0500	0.0496		mg/L		98	75 - 125	6	20
Lead	ND		0.0500	0.0497		mg/L		99	75 - 125	7	20
Lithium	0.0090	^+ ^2	0.0500	0.0586	^+	mg/L		99	75 - 125	11	20
Molybdenum	ND	^6+	0.0500	0.0495	^6+	mg/L		99	75 - 125	12	20
Selenium	ND		0.0500	0.0498		mg/L		100	75 - 125	9	20
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125	11	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-587255/14-A
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		08/03/22 10:24	08/03/22 16:36	1

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

Lab Sample ID: LCS 400-587255/15-A
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587255

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.00107		mg/L		106	80 - 120		

Lab Sample ID: 400-223767-E-1-B MS
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 587255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND	F1	0.00201	0.00146	F1	mg/L		73	80 - 120		

Lab Sample ID: 400-223767-E-1-C MSD
Matrix: Water
Analysis Batch: 587572

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 587255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.00201	0.00143	F1	mg/L		71	80 - 120	2	20

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

Lab Sample ID: MB 400-586857/1
Matrix: Water
Analysis Batch: 586857

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			07/29/22 16:04	1

Lab Sample ID: LCS 400-586857/2
Matrix: Water
Analysis Batch: 586857

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	260		mg/L		89	78 - 122		

Lab Sample ID: 400-223708-1 DU
Matrix: Water
Analysis Batch: 586857

Client Sample ID: MW-D4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	190			256	F3	mg/L				31	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-587168/5
Matrix: Water
Analysis Batch: 587168

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			08/01/22 23:27	1

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

Lab Sample ID: LCS 400-587168/6
Matrix: Water
Analysis Batch: 587168

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	50.9		mg/L		102	90 - 110

Lab Sample ID: MRL 400-587168/7
Matrix: Water
Analysis Batch: 587168

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	1.99	J	mg/L		100	50 - 150

Lab Sample ID: 400-223717-D-1 MS
Matrix: Water
Analysis Batch: 587168

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	4.6		10.0	13.6		mg/L		90	73 - 120

Lab Sample ID: 400-223717-D-1 MSD
Matrix: Water
Analysis Batch: 587168

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	4.6		10.0	13.7		mg/L		91	73 - 120	1	8

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-587299/5
Matrix: Water
Analysis Batch: 587299

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			08/02/22 18:11	1

Lab Sample ID: LCS 400-587299/6
Matrix: Water
Analysis Batch: 587299

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	14.6		mg/L		98	90 - 110

Lab Sample ID: MRL 400-587299/7
Matrix: Water
Analysis Batch: 587299

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	4.33	J	mg/L		87	50 - 150

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

Lab Sample ID: 400-223693-F-1 MS
Matrix: Water
Analysis Batch: 587299

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	ND		10.0	8.90		mg/L		89	77 - 128

Lab Sample ID: 400-223693-F-1 MSD
Matrix: Water
Analysis Batch: 587299

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	ND		10.0	8.79		mg/L		88	77 - 128	1	5

Lab Sample ID: 400-223717-D-1 MS
Matrix: Water
Analysis Batch: 587299

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	8.5		10.0	18.0		mg/L		95	77 - 128

Lab Sample ID: 400-223717-D-1 MSD
Matrix: Water
Analysis Batch: 587299

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	8.5		10.0	18.0		mg/L		95	77 - 128	0	5

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tristan Omdorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone: 334-261-9971	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:

Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:
City: Kennesaw	TAT Requested (days):
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No
Phone: 678-202-9569	PO #: Purchase Order not required
Email: dyifru@geosyntec.com	WO #:
Project Name: Crisp County CCR	Project #: 40007960
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D4	7/27/22	13:25	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.92
MW-D5	7/27/22	15:50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.76
DUP	7/27/22	13:50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.92
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-223708 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Tristan Omdorff	Date/Time: 7/28/22 17:00	Company: Geosynte	Received by: FedEX	Date/Time: 7/28/22 17:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7-29-22 911	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.8°C IR#0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223708-1

Login Number: 223708
List Number: 1
Creator: Whitley, Adrian

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.	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	4.8°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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 400-223708-1
Project/Site: Crisp County CCR

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-223708-2
Laboratory Sample Delivery Group: CCR
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Authorized for release by:
8/31/2022 8:38:22 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Job ID: 400-223708-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-223708-2

Receipt
The samples were received on 7/29/2022 9:11 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 4.8º C.

RAD
Method 9315: Radium-226 batch 576422. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D4 (400-223708-1), MW-D5 (400-223708-2), DUP (400-223708-3), (LCS 160-576422/2-A), (LCSD 160-576422/3-A) and (MB 160-576422/1-A)

Method 9320: Radium 228 Batch 160-576440. The method blank (MB) has Ra-228 activity above the MDC and RL. The following associated samples are non-detect for the analyte, therefore, re-analysis is not required. The data have been reported. MW-D5 (400-223708-2) and DUP (400-223708-3)

Method 9320: Radium 228 Batch 160-576440. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D5 (400-223708-2), DUP (400-223708-3), (LCS 160-576440/2-A), (LCSD 160-576440/3-A) and (MB 160-576440/1-A)

Method 9320: Radium-228 batch 578405. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D4 (400-223708-1), (LCS 160-578405/2-A), (LCSD 160-578405/3-A) and (MB 160-578405/1-A)

Method PrecSep_0: Radium-226 Prep Batch 160-576422. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4 (400-223708-1), MW-D5 (400-223708-2) and DUP (400-223708-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-578405. The following sample was prepared at a reduced aliquot due to Matrix: MW-D4 (400-223708-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-578405. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4 (400-223708-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-228 Prep Batch 160-576422. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4 (400-223708-1), MW-D5 (400-223708-2) and DUP (400-223708-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-2
SDG: CCR

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 CCR

Job ID: 400-223708-2
SDG: CCR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-223708-1	MW-D4	Water	07/27/22 13:25	07/29/22 09:11
400-223708-2	MW-D5	Water	07/27/22 15:50	07/29/22 09:11
400-223708-3	DUP	Water	07/27/22 13:50	07/29/22 09:11

Client Sample ID: MW-D4

Date Collected: 07/27/22 13:25
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136		0.0778	0.0788	1.00	0.0946	pCi/L	08/03/22 12:29	08/25/22 07:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*40 - 110*	*08/03/22 12:29*	*08/25/22 07:27*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.100	U	0.375	0.375	1.00	0.683	pCi/L	08/17/22 14:02	08/22/22 12:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*40 - 110*	*08/17/22 14:02*	*08/22/22 12:28*	*1*
Y Carrier	*81.5*		*40 - 110*	*08/17/22 14:02*	*08/22/22 12:28*	*1*

Method: 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	0.236	U	0.383	0.383	5.00	0.683	pCi/L		08/25/22 16:55	1

Client Sample ID: MW-D5

Date Collected: 07/27/22 15:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0521	U	0.0698	0.0699	1.00	0.117	pCi/L	08/03/22 12:29	08/25/22 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*08/03/22 12:29*	*08/25/22 07:28*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.755**		0.330	0.337	1.00	0.431	pCi/L	08/03/22 13:35	08/16/22 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*08/03/22 13:35*	*08/16/22 11:19*	*1*
Y Carrier	*93.8*		*40 - 110*	*08/03/22 13:35*	*08/16/22 11:19*	*1*

Method: 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	**0.807**		0.337	0.344	5.00	0.431	pCi/L		08/25/22 16:55	1

Client Sample ID: DUP

Date Collected: 07/27/22 13:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.113		0.0749	0.0756	1.00	0.0998	pCi/L	08/03/22 12:29	08/25/22 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.3*		*40 - 110*	*08/03/22 12:29*	*08/25/22 07:28*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.790		0.335	0.343	1.00	0.426	pCi/L	08/03/22 13:35	08/16/22 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.3*		*40 - 110*	*08/03/22 13:35*	*08/16/22 11:19*	*1*
Y Carrier	*89.3*		*40 - 110*	*08/03/22 13:35*	*08/16/22 11:19*	*1*

Method: 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	0.904		0.343	0.351	5.00	0.426	pCi/L		08/25/22 16:55	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-2
SDG: CCR

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 CCR

Job ID: 400-223708-2
SDG: CCR

Client Sample ID: MW-D4

Date Collected: 07/27/22 13:25
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576422	MS	EET SL	08/03/22 12:29
Total/NA	Analysis	9315		1	579454	FLC	EET SL	08/25/22 07:27
Total/NA	Prep	PrecSep_0			578405	BMP	EET SL	08/17/22 14:02
Total/NA	Analysis	9320		1	579000	FLC	EET SL	08/22/22 12:28
Total/NA	Analysis	Ra226_Ra228		1	579494	CLP	EET SL	08/25/22 16:55

Client Sample ID: MW-D5

Date Collected: 07/27/22 15:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576422	MS	EET SL	08/03/22 12:29
Total/NA	Analysis	9315		1	579459	FLC	EET SL	08/25/22 07:28
Total/NA	Prep	PrecSep_0			576440	MS	EET SL	08/03/22 13:35
Total/NA	Analysis	9320		1	578203	CLP	EET SL	08/16/22 11:19
Total/NA	Analysis	Ra226_Ra228		1	579494	CLP	EET SL	08/25/22 16:55

Client Sample ID: DUP

Date Collected: 07/27/22 13:50
Date Received: 07/29/22 09:11

Lab Sample ID: 400-223708-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			576422	MS	EET SL	08/03/22 12:29
Total/NA	Analysis	9315		1	579459	FLC	EET SL	08/25/22 07:28
Total/NA	Prep	PrecSep_0			576440	MS	EET SL	08/03/22 13:35
Total/NA	Analysis	9320		1	578203	CLP	EET SL	08/16/22 11:19
Total/NA	Analysis	Ra226_Ra228		1	579494	CLP	EET SL	08/25/22 16:55

Laboratory References:

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

Rad

Prep Batch: 576422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	PrecSep-21	
400-223708-2	MW-D5	Total/NA	Water	PrecSep-21	
400-223708-3	DUP	Total/NA	Water	PrecSep-21	
MB 160-576422/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-576422/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-576422/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 576440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-2	MW-D5	Total/NA	Water	PrecSep_0	
400-223708-3	DUP	Total/NA	Water	PrecSep_0	
MB 160-576440/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-576440/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-576440/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 578405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-223708-1	MW-D4	Total/NA	Water	PrecSep_0	
MB 160-578405/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-578405/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-578405/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-576422/1-A
Matrix: Water
Analysis Batch: 579454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576422

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.003736	U	0.0519	0.0519	1.00	0.106	pCi/L	08/03/22 12:29	08/25/22 07:22	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*40 - 110*	*08/03/22 12:29*	*08/25/22 07:22*	*1*

Lab Sample ID: LCS 160-576422/2-A
Matrix: Water
Analysis Batch: 579454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576422

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.40		1.09	1.00	0.0946	pCi/L	92	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*40 - 110*

Lab Sample ID: LCSD 160-576422/3-A
Matrix: Water
Analysis Batch: 579454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576422

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.96		1.17	1.00	0.117	pCi/L	97	75 - 125	0.25	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*74.6*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-576440/1-A
Matrix: Water
Analysis Batch: 578202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576440

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.236		0.409	0.424	1.00	0.476	pCi/L	08/03/22 13:35	08/16/22 11:12	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*40 - 110*	*08/03/22 13:35*	*08/16/22 11:12*	*1*
Y Carrier	*84.5*		*40 - 110*	*08/03/22 13:35*	*08/16/22 11:12*	*1*

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

Lab Sample ID: LCS 160-576440/2-A
Matrix: Water
Analysis Batch: 578202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576440

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.36	9.206		1.26	1.00	0.533	pCi/L	110	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*40 - 110*
Y Carrier	*84.9*		*40 - 110*

Lab Sample ID: LCSD 160-576440/3-A
Matrix: Water
Analysis Batch: 578202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576440

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.36	9.644		1.37	1.00	0.624	pCi/L	115	75 - 125	0.17	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*74.6*		*40 - 110*
Y Carrier	*84.5*		*40 - 110*

Lab Sample ID: MB 160-578405/1-A
Matrix: Water
Analysis Batch: 579003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578405

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2518	U	0.284	0.285	1.00	0.465	pCi/L	08/17/22 14:02	08/22/22 12:21	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*08/17/22 14:02*	*08/22/22 12:21*	*1*
Y Carrier	*87.5*		*40 - 110*	*08/17/22 14:02*	*08/22/22 12:21*	*1*

Lab Sample ID: LCS 160-578405/2-A
Matrix: Water
Analysis Batch: 579003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578405

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.34	7.925		1.11	1.00	0.455	pCi/L	95	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.8*		*40 - 110*
Y Carrier	*88.2*		*40 - 110*

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

Lab Sample ID: LCSD 160-578405/3-A
Matrix: Water
Analysis Batch: 579003

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 578405

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.34	8.697		1.20	1.00	0.470	pCi/L	104	75 - 125	0.33	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*91.0*		*40 - 110*
Y Carrier	*86.4*		*40 - 110*

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tristan Omdorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone: 334-261-9971	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:

Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:
City: Kennesaw	TAT Requested (days):
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No
Phone: 678-202-9569	PO #: Purchase Order not required
Email: dyifru@geosyntec.com	WO #:
Project Name: Crisp County CCR	Project #: 40007960
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D4	7/27/22	13:25	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.92
MW-D5	7/27/22	15:50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.76
DUP	7/27/22	13:50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓		pH = 7.92
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-223708 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tristan Omdorff	7/28/22 17:00	Geosynte	FedEX	7/28/22 17:00	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7-29-22 911	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.8°C IR#0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223708-2
SDG Number: CCR

Login Number: 223708
List Number: 1
Creator: Whitley, Adrian

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.	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	4.8°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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-223708-2
SDG Number: CCR

Login Number: 223708
List Number: 2
Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis
List Creation: 08/01/22 12:26 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-223708-2
SDG: CCR

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-22 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22 *
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/23/2022 4:07:08 PM

JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227699-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

myEOL

Table of Contents

Job ID: 400-227699-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227699-1

Metals
Method 6020: The ICV for batch 400-600516 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-D9-20221020 (400-227699-1) and DUP-2-20221020 (400-227699-2). Elevated reporting limits (RLs) are provided.

Method 6020: The continuing calibration verification (CCV) associated with batch 400-599379 recovered above the upper control limit for Boron. The Laboratory control spike associated with this CCV were within the acceptable limit for the affected analytes as well as the method blank being below the reporting limit; therefore, the data have been reported.

Method 6020: The method blank for preparation batch 400-598107 and analytical batch 400-599379 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

General Chemistry
Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-597861 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

Client Sample ID: MW-D9-20221020 — Lab Sample ID: 400-227699-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.040		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	53		0.50	0.25	mg/L	10		6020	Total Recoverable
Chromium	0.0049	J ^2	0.0050	0.0020	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.6	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.16		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.78				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-2-20221020 — Lab Sample ID: 400-227699-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.053		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Boron	0.018	J B	0.10	0.0024	mg/L	10		6020	Total Recoverable
Calcium	70		0.50	0.25	mg/L	10		6020	Total Recoverable
Chromium	0.0032	J ^2	0.0050	0.0020	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	270		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.099	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	17		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227699-1	MW-D9-20221020	Water	10/20/22 16:15	10/22/22 08:55
400-227699-2	DUP-2-20221020	Water	10/20/22 12:00	10/22/22 08:55

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

Client Sample ID: MW-D9-20221020

Date Collected: 10/20/22 16:15
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227699-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		10/27/22 14:46	10/20/22 00:09	10
Arsenic	ND		0.0025	0.0024	mg/L		10/27/22 14:46	11/10/22 14:26	10
Barium	**0.040**		0.0050	0.0014	mg/L		10/27/22 14:46	10/20/22 00:09	10
Beryllium	ND		0.0040	0.0018	mg/L		10/27/22 14:46	10/20/22 00:09	10
Boron	ND		0.10	0.0024	mg/L		10/27/22 14:46	10/20/22 00:09	10
Cadmium	ND		0.0020	0.0013	mg/L		10/27/22 14:46	11/10/22 14:26	10
Calcium	**53**		0.50	0.25	mg/L		10/27/22 14:46	11/10/22 14:26	10
Chromium	**0.0049**	**J ^2**	0.0050	0.0020	mg/L		10/27/22 14:46	10/20/22 00:09	10
Cobalt	ND		0.0050	0.0011	mg/L		10/27/22 14:46	10/20/22 00:09	10
Lead	ND		0.0025	0.0016	mg/L		10/27/22 14:46	10/20/22 00:09	10
Lithium	ND		0.0050	0.0098	mg/L		10/27/22 14:46	10/20/22 00:09	10
Molybdenum	ND		0.020	0.0026	mg/L		10/27/22 14:46	10/20/22 00:09	10
Selenium	ND		0.0025	0.0016	mg/L		10/27/22 14:46	10/20/22 00:09	10
Thallium	ND		0.0010	0.00092	mg/L		10/27/22 14:46	10/20/22 00:09	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 13:04	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			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**1.6**	**J**	2.0	1.4	mg/L			11/01/22 04:03	1
Fluoride (SM 4500 F C)	**0.16**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**2.1**	**J**	5.0	1.4	mg/L			11/01/22 01:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.78**				SU			10/20/22 15:05	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

Client Sample ID: DUP-2-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227699-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		10/27/22 14:46	10/20/22 00:13	10
Arsenic	ND		0.0025	0.0024	mg/L		10/27/22 14:46	11/10/22 14:29	10
Barium	**0.053**		0.0050	0.0014	mg/L		10/27/22 14:46	10/20/22 00:13	10
Beryllium	ND		0.0040	0.0018	mg/L		10/27/22 14:46	10/20/22 00:13	10
Boron	**0.018**	**J B**	0.10	0.0024	mg/L		10/27/22 14:46	10/20/22 00:13	10
Cadmium	ND		0.0020	0.0013	mg/L		10/27/22 14:46	11/10/22 14:29	10
Calcium	**70**		0.50	0.25	mg/L		10/27/22 14:46	11/10/22 14:29	10
Chromium	**0.0032**	**J ^2**	0.0050	0.0020	mg/L		10/27/22 14:46	10/20/22 00:13	10
Cobalt	ND		0.0050	0.0011	mg/L		10/27/22 14:46	10/20/22 00:13	10
Lead	ND		0.0025	0.0016	mg/L		10/27/22 14:46	10/20/22 00:13	10
Lithium	ND		0.0050	0.0098	mg/L		10/27/22 14:46	10/20/22 00:13	10
Molybdenum	ND		0.020	0.0026	mg/L		10/27/22 14:46	10/20/22 00:13	10
Selenium	ND		0.0025	0.0016	mg/L		10/27/22 14:46	10/20/22 00:13	10
Thallium	ND		0.0010	0.00092	mg/L		10/27/22 14:46	10/20/22 00:13	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**270**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**4.5**		2.0	1.4	mg/L			11/01/22 04:03	1
Fluoride (SM 4500 F C)	**0.099**	**J**	0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**17**		5.0	1.4	mg/L			11/01/22 01:06	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5-	Linear Range Check (LRC) is outside acceptance limits, low 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.
B	Compound was found in the blank and sample.
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
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.

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: CCR Crisp County Power

Job ID: 400-227699-1

Client Sample ID: MW-D9-20221020

Date Collected: 10/20/22 16:15
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227699-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			598107	KWN	EET PEN	10/27/22 14:46 - 10/27/22 17:54 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:26
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:09
Total Recoverable	Prep	3005A			598107	KWN	EET PEN	10/27/22 14:46 - 10/27/22 17:54 [1]
Total/NA	Prep	7470A			598104	NET	EET PEN	10/28/22 09:32 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:04
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:03
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 01:05
Total/NA	Analysis	Field Sampling		1	597669	PP1	EET PEN	10/20/22 15:05

Client Sample ID: DUP-2-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227699-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			598107	KWN	EET PEN	10/27/22 14:46 - 10/27/22 17:54 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:29
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:13
Total Recoverable	Prep	3005A			598107	KWN	EET PEN	10/27/22 14:46 - 10/27/22 17:54 [1]
Total/NA	Prep	7470A			598104	NET	EET PEN	10/28/22 09:32 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:06
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:03
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 01:06

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 598104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	7470A	
400-227699-2	DUP-2-20221020	Total/NA	Water	7470A	
MB 400-598104/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-598104/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-227800-I-6-B MS	Matrix Spike	Total/NA	Water	7470A	
400-227800-I-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 598107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total Recoverable	Water	3005A	
400-227699-2	DUP-2-20221020	Total Recoverable	Water	3005A	
MB 400-598107/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-598107/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-227692-F-1-E MS ^25	Matrix Spike	Total Recoverable	Water	3005A	
400-227692-F-1-F MSD ^25	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 598841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	7470A	598104
400-227699-2	DUP-2-20221020	Total/NA	Water	7470A	598104
MB 400-598104/14-A	Method Blank	Total/NA	Water	7470A	598104
LCS 400-598104/15-A	Lab Control Sample	Total/NA	Water	7470A	598104
400-227800-I-6-B MS	Matrix Spike	Total/NA	Water	7470A	598104
400-227800-I-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	598104

Analysis Batch: 599379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-598107/1-A ^5	Method Blank	Total Recoverable	Water	6020	598107
LCS 400-598107/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	598107

Analysis Batch: 599995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total Recoverable	Water	6020	598107
400-227699-2	DUP-2-20221020	Total Recoverable	Water	6020	598107

Analysis Batch: 600516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total Recoverable	Water	6020	598107
400-227699-2	DUP-2-20221020	Total Recoverable	Water	6020	598107
400-227692-F-1-E MS ^25	Matrix Spike	Total Recoverable	Water	6020	598107
400-227692-F-1-F MSD ^25	Matrix Spike Duplicate	Total Recoverable	Water	6020	598107

General Chemistry

Analysis Batch: 597572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	SM 2540C	
400-227699-2	DUP-2-20221020	Total/NA	Water	SM 2540C	
MB 400-597572/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-597572/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-227511-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-1

General Chemistry

Analysis Batch: 597861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	SM 4500 F C	
400-227699-2	DUP-2-20221020	Total/NA	Water	SM 4500 F C	
MB 400-597861/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-597861/5	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-597861/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-227702-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-227702-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-227700-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 598644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227699-2	DUP-2-20221020	Total/NA	Water	SM 4500 SO4 E	
MB 400-598644/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-598644/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-598644/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-227700-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-227700-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 598649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227699-2	DUP-2-20221020	Total/NA	Water	SM 4500 Cl- E	
MB 400-598649/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-598649/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-598649/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 597669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-598107/1-A ^5
Matrix: Water
Analysis Batch: 599379

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		10/27/22 14:46	11/04/22 23:37	5
Arsenic	ND		0.0013	0.0012	mg/L		10/27/22 14:46	11/04/22 23:37	5
Barium	ND		0.0025	0.00070	mg/L		10/27/22 14:46	11/04/22 23:37	5
Beryllium	ND		0.0020	0.00092	mg/L		10/27/22 14:46	11/04/22 23:37	5
Boron	0.00783	J ^+	0.050	0.0012	mg/L		10/27/22 14:46	11/04/22 23:37	5
Cadmium	ND		0.0010	0.00065	mg/L		10/27/22 14:46	11/04/22 23:37	5
Calcium	ND		0.25	0.13	mg/L		10/27/22 14:46	11/04/22 23:37	5
Chromium	ND		0.0025	0.0010	mg/L		10/27/22 14:46	11/04/22 23:37	5
Cobalt	ND		0.0025	0.00056	mg/L		10/27/22 14:46	11/04/22 23:37	5
Lead	ND		0.0013	0.00081	mg/L		10/27/22 14:46	11/04/22 23:37	5
Lithium	ND		0.0025	0.0049	mg/L		10/27/22 14:46	11/04/22 23:37	5
Molybdenum	ND		0.010	0.0013	mg/L		10/27/22 14:46	11/04/22 23:37	5
Selenium	ND		0.0013	0.00082	mg/L		10/27/22 14:46	11/04/22 23:37	5
Thallium	ND		0.00050	0.00046	mg/L		10/27/22 14:46	11/04/22 23:37	5

Lab Sample ID: LCS 400-598107/2-A ^5
Matrix: Water
Analysis Batch: 599379

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0542		mg/L		108	80 - 120
Arsenic	0.0500	0.0533		mg/L		107	80 - 120
Barium	0.0500	0.0575		mg/L		115	80 - 120
Beryllium	0.0500	0.0520		mg/L		104	80 - 120
Boron	0.100	0.0989	^+	mg/L		99	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Calcium	5.00	5.15		mg/L		103	80 - 120
Chromium	0.0500	0.0541		mg/L		108	80 - 120
Cobalt	0.0500	0.0535		mg/L		107	80 - 120
Lead	0.0500	0.0528		mg/L		106	80 - 120
Lithium	0.0500	0.0513		mg/L		103	80 - 120
Molybdenum	0.0500	0.0504		mg/L		101	80 - 120
Selenium	0.0500	0.0495		mg/L		99	80 - 120
Thallium	0.0100	0.0107		mg/L		107	80 - 120

Lab Sample ID: 400-227692-F-1-E MS ^25
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	0.0500	0.0636	F1	mg/L		127	75 - 125
Arsenic	ND		0.0500	0.0598		mg/L		120	75 - 125
Barium	0.088	F1	0.0500	0.153	F1	mg/L		129	75 - 125
Beryllium	ND		0.0500	0.0589		mg/L		118	75 - 125
Cadmium	ND		0.0500	0.0589		mg/L		118	75 - 125
Calcium	99		5.00	87.1	4	mg/L		-233	75 - 125
Chromium	ND	F1	0.0500	0.0624		mg/L		125	75 - 125
Cobalt	0.0033	J	0.0500	0.0613		mg/L		116	75 - 125
Lead	ND		0.0500	0.0586		mg/L		117	75 - 125

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

Lab Sample ID: 400-227692-F-1-E MS ^25
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	ND		0.0500	0.0457		mg/L		91	75 - 125
Molybdenum	0.013	J	0.0500	0.0697		mg/L		113	75 - 125
Selenium	ND	F1	0.0500	0.0669	F1	mg/L		134	75 - 125
Thallium	ND		0.0100	0.0116		mg/L		116	75 - 125

Lab Sample ID: 400-227692-F-1-F MSD ^25
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	0.0500	0.0619		mg/L		124	75 - 125	3	20
Arsenic	ND		0.0500	0.0597		mg/L		119	75 - 125	0	20
Barium	0.088	F1	0.0500	0.146		mg/L		116	75 - 125	5	20
Beryllium	ND		0.0500	0.0575		mg/L		115	75 - 125	2	20
Cadmium	ND		0.0500	0.0601		mg/L		120	75 - 125	2	20
Calcium	99		5.00	105	4	mg/L		124	75 - 125	19	20
Chromium	ND	F1	0.0500	0.0667	F1	mg/L		133	75 - 125	7	20
Cobalt	0.0033	J	0.0500	0.0627		mg/L		119	75 - 125	2	20
Lead	ND		0.0500	0.0590		mg/L		118	75 - 125	1	20
Lithium	ND		0.0500	0.0543		mg/L		109	75 - 125	17	20
Molybdenum	0.013	J	0.0500	0.0711		mg/L		115	75 - 125	2	20
Selenium	ND	F1	0.0500	0.0643	F1	mg/L		129	75 - 125	4	20
Thallium	ND		0.0100	0.0119		mg/L		119	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-598104/14-A
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 12:42	1

Lab Sample ID: LCS 400-598104/15-A
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00101	0.000930		mg/L		92	80 - 120

Lab Sample ID: 400-227800-I-6-B MS
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	^5-	0.00201	0.00181		mg/L		90	80 - 120

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

Lab Sample ID: 400-227800-I-6-C MSD
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	^5-	0.00201	0.00174		mg/L		86	80 - 120	4	20

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

Lab Sample ID: MB 400-597572/1
Matrix: Water
Analysis Batch: 597572

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			10/24/22 13:40	1

Lab Sample ID: LCS 400-597572/2
Matrix: Water
Analysis Batch: 597572

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	264		mg/L		90	78 - 122

Lab Sample ID: 400-227511-B-1 DU
Matrix: Water
Analysis Batch: 597572

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	1600		1670		mg/L		4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-598649/13
Matrix: Water
Analysis Batch: 598649

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			11/01/22 03:51	1

Lab Sample ID: LCS 400-598649/14
Matrix: Water
Analysis Batch: 598649

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	48.1		mg/L		96	90 - 110

Lab Sample ID: MRL 400-598649/15
Matrix: Water
Analysis Batch: 598649

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	1.45	J	mg/L		73	50 - 150

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

Lab Sample ID: 400-227902-M-1 MS
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.1	4	mg/L		86	73 - 120

Lab Sample ID: 400-227902-M-1 MSD
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.6	4	mg/L		91	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-597861/2
Matrix: Water
Analysis Batch: 597861

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	0.070	mg/L			10/26/22 09:00	1

Lab Sample ID: LCS 400-597861/5
Matrix: Water
Analysis Batch: 597861

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	5.12		mg/L		102	90 - 110

Lab Sample ID: MRL 400-597861/4
Matrix: Water
Analysis Batch: 597861

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	0.130		mg/L		130	

Lab Sample ID: 400-227702-B-3 MS
Matrix: Water
Analysis Batch: 597861

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	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125

Lab Sample ID: 400-227702-B-3 MSD
Matrix: Water
Analysis Batch: 597861

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	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125	0	4

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-227700-B-1 DU
Matrix: Water
Analysis Batch: 597861

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.21		0.215		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-598644/12
Matrix: Water
Analysis Batch: 598644

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			11/01/22 00:51	1

Lab Sample ID: LCS 400-598644/13
Matrix: Water
Analysis Batch: 598644

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	14.9		mg/L		100	90 - 110

Lab Sample ID: MRL 400-598644/14
Matrix: Water
Analysis Batch: 598644

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	4.80	J	mg/L		96	50 - 150

Lab Sample ID: 400-227700-B-1 MS
Matrix: Water
Analysis Batch: 598644

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	2.2	J	10.0	11.8		mg/L		96	77 - 128

Lab Sample ID: 400-227700-B-1 MSD
Matrix: Water
Analysis Batch: 598644

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	2.2	J	10.0	11.5		mg/L		93	77 - 128	2	5

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

eurofins | Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D9-20221020	10/20/22	1615	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.78
DUP-2-20221020	10/20/22		G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG DG DG

400-227699 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc GEO	10/21/22 1700	GEO	FEDEX	10/21/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/22/22 0855	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227699-1

Login Number: 227699
List Number: 1
Creator: Whitley, Adrian

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.	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	2.4°C IR8
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: CCR Crisp County Power

Job ID: 400-227699-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

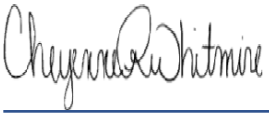
Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2022 4:47:42 PM

JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227699-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

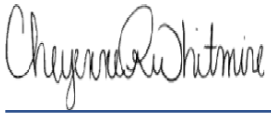
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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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11/30/2022 4:47:42 PM

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-227699-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227699-2

Receipt
The samples were received on 10/22/2022 8:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-588510:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D9-20221020 (400-227699-1), DUP-2-20221020 (400-227699-2), (LCS 160-588510/2-A), (MB 160-588510/1-A), (310-243397-E-1-A) and (310-243397-D-1-A DU)

Method 9320_Ra228: Radium-228 prep batch 160-588511:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D9-20221020 (400-227699-1), DUP-2-20221020 (400-227699-2), (LCS 160-588511/2-A), (MB 160-588511/1-A), (310-243397-E-1-B) and (310-243397-D-1-B DU)

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

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-2

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: CCR Crisp County Power

Job ID: 400-227699-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227699-1	MW-D9-20221020	Water	10/20/22 16:15	10/22/22 08:55
400-227699-2	DUP-2-20221020	Water	10/20/22 12:00	10/22/22 08:55

Client Sample ID: MW-D9-20221020

Date Collected: 10/20/22 16:15
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227699-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.207**		0.104	0.106	1.00	0.135	pCi/L	11/04/22 06:57	11/30/22 08:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:11*	*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	0.318	U	0.305	0.306	1.00	0.484	pCi/L	11/04/22 07:25	11/18/22 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*1*
Y Carrier	*82.2*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*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	**0.525**		0.322	0.324	5.00	0.484	pCi/L		11/30/22 15:38	1

Client Sample ID: DUP-2-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227699-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.119**		0.0744	0.0752	1.00	0.0964	pCi/L	11/04/22 06:57	11/30/22 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:12*	*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	0.00223	U	0.335	0.335	1.00	0.617	pCi/L	11/04/22 07:25	11/18/22 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*1*
Y Carrier	*81.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*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	0.122	U	0.343	0.343	5.00	0.617	pCi/L		11/30/22 15:38	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-2

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: CCR Crisp County Power

Job ID: 400-227699-2

Client Sample ID: MW-D9-20221020

Lab Sample ID: 400-227699-1

Date Collected: 10/20/22 16:15

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:11
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590568	FLC	EET SL	11/18/22 13:35
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: DUP-2-20221020

Lab Sample ID: 400-227699-2

Date Collected: 10/20/22 12:00

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:12
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590568	FLC	EET SL	11/18/22 13:35
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-2

Rad

Prep Batch: 588510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	PrecSep-21	
400-227699-2	DUP-2-20221020	Total/NA	Water	PrecSep-21	
MB 160-588510/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588510/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-243397-D-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 588511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227699-1	MW-D9-20221020	Total/NA	Water	PrecSep_0	
400-227699-2	DUP-2-20221020	Total/NA	Water	PrecSep_0	
MB 160-588511/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588511/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-243397-D-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-588510/1-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588510

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1345		0.0727	0.0737	1.00	0.0859	pCi/L	11/04/22 06:57	11/30/22 07:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 06:57*	*11/30/22 07:57*	*1*

Lab Sample ID: LCS 160-588510/2-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588510

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.714		1.02	1.00	0.0975	pCi/L	86	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*

Lab Sample ID: 310-243397-D-1-A DU
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588510

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.51			1.387		0.241	1.00	0.101	pCi/L			0.25	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-588511/1-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588511

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6649		0.372	0.377	1.00	0.537	pCi/L	11/04/22 07:25	11/18/22 13:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*
Y Carrier	*81.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*

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

Lab Sample ID: LCS 160-588511/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588511

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.43	9.353		1.27	1.00	0.516	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*
Y Carrier	*80.4*		*40 - 110*

Lab Sample ID: 310-243397-D-1-B DU
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588511

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.50			1.101		0.430	1.00	0.531	pCi/L			0.45	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*
Y Carrier	*81.9*		*40 - 110*

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	N	D	D	N	N	N	N		
MW-D9-20221020	10/20/22	1615	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.78
DUP-2-20221020	10/20/22		G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-227699 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Derya Genc GEO	Date/Time: 10/21/22 1700	Company GEO	Received by: FEDEX	Date/Time: 10/21/22 1700	Company FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/22/22 0855	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4 C IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227699-2

Login Number: 227699
List Number: 1
Creator: Whitley, Adrian

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.	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	2.4°C IR8
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227699-2

Login Number: 227699
List Number: 2
Creator: Booker, Autumn R

List Source: Eurofins St. Louis
List Creation: 10/25/22 12:28 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227699-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/23/2022 3:51:27 PM

JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227700-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

myEOL

Table of Contents

Job ID: 400-227700-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227700-1

Metals

Method 6020: The ICV for batch 400-600516 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-D6-20221019 (400-227700-1), MW-D7-20221020 (400-227700-2) and MW-D8-20221020 (400-227700-3). Elevated reporting limits (RLs) are provided.

Method 6020: The method blank for preparation batch 400-599395 and analytical batch 400-599995 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The method blank for preparation batch 400-599395 and analytical batch 400-599960 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The initial calibration verification (ICV) result for batch 400-599960 was above the upper control limit for Arsenic and Cadmium. Method blank results were non-detects, and have been reported as qualified data.

Method 6020: The initial calibration verification (ICV) result for batch 400-599960 was above the upper control limit for Arsenic. The laboratory control spike results were within the acceptable limits, and have been reported as qualified data.

General Chemistry

Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-597861 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Client Sample ID: MW-D6-20221019 — Lab Sample ID: 400-227700-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0094		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	32		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.21		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.2	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.08				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D7-20221020 — Lab Sample ID: 400-227700-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.085		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	55		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	270		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.45				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D8-20221020 — Lab Sample ID: 400-227700-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.051		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Boron	0.014	J	0.10	0.0024	mg/L	10		6020	Total Recoverable
Calcium	67		0.50	0.25	mg/L	10		6020	Total Recoverable
Chromium	0.0044	J ^2 B	0.0050	0.0020	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	520		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.092	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	18		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.53				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227700-1	MW-D6-20221019	Water	10/19/22 15:55	10/22/22 08:55
400-227700-2	MW-D7-20221020	Water	10/20/22 15:51	10/22/22 08:55
400-227700-3	MW-D8-20221020	Water	10/20/22 14:10	10/22/22 08:55

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Client Sample ID: MW-D6-20221019

Date Collected: 10/19/22 15:55
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		11/05/22 13:34	10/20/22 00:29	10
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 14:38	10
Barium	**0.0094**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 00:29	10
Beryllium	ND		0.0040	0.0018	mg/L		11/05/22 13:34	10/20/22 00:29	10
Boron	ND		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 00:29	10
Cadmium	ND		0.0020	0.0013	mg/L		11/05/22 13:34	11/10/22 14:38	10
Calcium	**32**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 14:38	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 14:38	10
Cobalt	ND		0.0050	0.0011	mg/L		11/05/22 13:34	10/20/22 00:29	10
Lead	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 00:29	10
Lithium	ND		0.0050	0.0098	mg/L		11/05/22 13:34	10/20/22 00:29	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 00:29	10
Selenium	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 00:29	10
Thallium	ND		0.0010	0.00092	mg/L		11/05/22 13:34	10/20/22 00:29	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**170**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**4.1**		2.0	1.4	mg/L			11/01/22 04:01	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**2.2**	**J**	5.0	1.4	mg/L			11/01/22 01:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.08**				SU			10/19/22 14:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Client Sample ID: MW-D7-20221020

Date Collected: 10/20/22 15:51
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		11/05/22 13:34	10/20/22 00:33	10
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 14:41	10
Barium	**0.085**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 00:33	10
Beryllium	ND		0.0040	0.0018	mg/L		11/05/22 13:34	10/20/22 00:33	10
Boron	ND		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 00:33	10
Cadmium	ND		0.0020	0.0013	mg/L		11/05/22 13:34	11/10/22 14:41	10
Calcium	**55**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 14:41	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 14:41	10
Cobalt	ND		0.0050	0.0011	mg/L		11/05/22 13:34	10/20/22 00:33	10
Lead	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 00:33	10
Lithium	ND		0.0050	0.0098	mg/L		11/05/22 13:34	10/20/22 00:33	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 00:33	10
Selenium	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 00:33	10
Thallium	ND		0.0010	0.00092	mg/L		11/05/22 13:34	10/20/22 00:33	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**270**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**2.9**		2.0	1.4	mg/L			11/01/22 04:04	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**4.5**	**J**	5.0	1.4	mg/L			11/01/22 00:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.45**				SU			10/20/22 14:51	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Client Sample ID: MW-D8-20221020

Date Collected: 10/20/22 14:10
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		11/05/22 13:34	10/20/22 00:36	10
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 14:45	10
Barium	**0.051**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 00:36	10
Beryllium	ND		0.0040	0.0018	mg/L		11/05/22 13:34	10/20/22 00:36	10
Boron	**0.014**	**J**	0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 00:36	10
Cadmium	ND		0.0020	0.0013	mg/L		11/05/22 13:34	11/10/22 14:45	10
Calcium	**67**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 14:45	10
Chromium	**0.0044**	**J ^2 B**	0.0050	0.0020	mg/L		11/05/22 13:34	10/20/22 00:36	10
Cobalt	ND		0.0050	0.0011	mg/L		11/05/22 13:34	10/20/22 00:36	10
Lead	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 00:36	10
Lithium	ND		0.0050	0.0098	mg/L		11/05/22 13:34	10/20/22 00:36	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 00:36	10
Selenium	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 00:36	10
Thallium	ND		0.0010	0.00092	mg/L		11/05/22 13:34	10/20/22 00:36	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**4.6**		2.0	1.4	mg/L			11/01/22 04:04	1
Fluoride (SM 4500 F C)	**0.092**	**J**	0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**18**		5.0	1.4	mg/L			11/01/22 00:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.53**				SU			10/20/22 13:10	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5-	Linear Range Check (LRC) is outside acceptance limits, low 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.
B	Compound was found in the blank and sample.
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.
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.

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: CCR Crisp County Power

Job ID: 400-227700-1

Client Sample ID: MW-D6-20221019

Lab Sample ID: 400-227700-1

Date Collected: 10/19/22 15:55

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:38
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:29
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Prep	7470A			598104	NET	EET PEN	10/28/22 09:32 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:00
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:01
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 01:00
Total/NA	Analysis	Field Sampling		1	597669	PP1	EET PEN	10/19/22 14:55

Client Sample ID: MW-D7-20221020

Lab Sample ID: 400-227700-2

Date Collected: 10/20/22 15:51

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:41
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:33
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Prep	7470A			598104	NET	EET PEN	10/28/22 09:32 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:01
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:04
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:55
Total/NA	Analysis	Field Sampling		1	597669	PP1	EET PEN	10/20/22 14:51

Client Sample ID: MW-D8-20221020

Lab Sample ID: 400-227700-3

Date Collected: 10/20/22 14:10

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:45
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:36
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Prep	7470A			598104	NET	EET PEN	10/28/22 09:32 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:02
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:04
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-1

Client Sample ID: MW-D8-20221020

Date Collected: 10/20/22 14:10
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-3

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	598644	DN1	EET PEN	11/01/22 00:55
Total/NA	Analysis	Field Sampling		1	597669	PP1	EET PEN	10/20/22 13:10

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 598104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	7470A	
400-227700-2	MW-D7-20221020	Total/NA	Water	7470A	
400-227700-3	MW-D8-20221020	Total/NA	Water	7470A	
MB 400-598104/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-598104/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-227800-I-6-B MS	Matrix Spike	Total/NA	Water	7470A	
400-227800-I-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 598841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	7470A	598104
400-227700-2	MW-D7-20221020	Total/NA	Water	7470A	598104
400-227700-3	MW-D8-20221020	Total/NA	Water	7470A	598104
MB 400-598104/14-A	Method Blank	Total/NA	Water	7470A	598104
LCS 400-598104/15-A	Lab Control Sample	Total/NA	Water	7470A	598104
400-227800-I-6-B MS	Matrix Spike	Total/NA	Water	7470A	598104
400-227800-I-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	598104

Prep Batch: 599395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total Recoverable	Water	3005A	
400-227700-2	MW-D7-20221020	Total Recoverable	Water	3005A	
400-227700-3	MW-D8-20221020	Total Recoverable	Water	3005A	
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-227774-G-4-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-227774-G-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 599960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	6020	599395
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	599395
400-227774-G-4-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	599395
400-227774-G-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	599395

Analysis Batch: 599995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total Recoverable	Water	6020	599395
400-227700-2	MW-D7-20221020	Total Recoverable	Water	6020	599395
400-227700-3	MW-D8-20221020	Total Recoverable	Water	6020	599395
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	6020	599395
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	599395

Analysis Batch: 600516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total Recoverable	Water	6020	599395
400-227700-2	MW-D7-20221020	Total Recoverable	Water	6020	599395
400-227700-3	MW-D8-20221020	Total Recoverable	Water	6020	599395

General Chemistry

Analysis Batch: 597572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	SM 2540C	
400-227700-2	MW-D7-20221020	Total/NA	Water	SM 2540C	
400-227700-3	MW-D8-20221020	Total/NA	Water	SM 2540C	
MB 400-597572/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-597572/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-227511-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 597861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	SM 4500 F C	
400-227700-2	MW-D7-20221020	Total/NA	Water	SM 4500 F C	
400-227700-3	MW-D8-20221020	Total/NA	Water	SM 4500 F C	
MB 400-597861/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-597861/5	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-597861/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-227702-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-227702-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-227700-1 DU	MW-D6-20221019	Total/NA	Water	SM 4500 F C	

Analysis Batch: 598644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	SM 4500 SO4 E	
400-227700-2	MW-D7-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227700-3	MW-D8-20221020	Total/NA	Water	SM 4500 SO4 E	
MB 400-598644/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-598644/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-598644/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-227700-1 MS	MW-D6-20221019	Total/NA	Water	SM 4500 SO4 E	
400-227700-1 MSD	MW-D6-20221019	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 598649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	SM 4500 Cl- E	
400-227700-2	MW-D7-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227700-3	MW-D8-20221020	Total/NA	Water	SM 4500 Cl- E	
MB 400-598649/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-598649/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-598649/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 597669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	Field Sampling	
400-227700-2	MW-D7-20221020	Total/NA	Water	Field Sampling	
400-227700-3	MW-D8-20221020	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-599395/1-A ^5
Matrix: Water
Analysis Batch: 599995

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		11/05/22 13:34	10/20/22 00:19	5
Barium	ND		0.0025	0.00070	mg/L		11/05/22 13:34	10/20/22 00:19	5
Beryllium	ND		0.0020	0.00092	mg/L		11/05/22 13:34	10/20/22 00:19	5
Boron	ND		0.050	0.0012	mg/L		11/05/22 13:34	10/20/22 00:19	5
Chromium	0.00135	J	0.0025	0.0010	mg/L		11/05/22 13:34	10/20/22 00:19	5
Cobalt	ND		0.0025	0.00056	mg/L		11/05/22 13:34	10/20/22 00:19	5
Lead	ND		0.0013	0.00081	mg/L		11/05/22 13:34	10/20/22 00:19	5
Lithium	ND		0.0025	0.0049	mg/L		11/05/22 13:34	10/20/22 00:19	5
Molybdenum	ND		0.010	0.0013	mg/L		11/05/22 13:34	10/20/22 00:19	5
Selenium	ND		0.0013	0.00082	mg/L		11/05/22 13:34	10/20/22 00:19	5
Thallium	ND		0.00050	0.00046	mg/L		11/05/22 13:34	10/20/22 00:19	5

Lab Sample ID: MB 400-599395/1-A ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^1+	0.0013	0.0012	mg/L		11/05/22 13:34	11/09/22 11:16	5
Cadmium	ND	^1+	0.0010	0.00065	mg/L		11/05/22 13:34	11/09/22 11:16	5
Calcium	0.198	J	0.25	0.13	mg/L		11/05/22 13:34	11/09/22 11:16	5

Lab Sample ID: LCS 400-599395/2-A ^5
Matrix: Water
Analysis Batch: 599995

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0553		mg/L		111	80 - 120
Barium	0.0500	0.0531		mg/L		106	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Boron	0.100	0.0873		mg/L		87	80 - 120
Cadmium	0.0500	0.0581		mg/L		116	80 - 120
Chromium	0.0500	0.0524		mg/L		105	80 - 120
Cobalt	0.0500	0.0543		mg/L		109	80 - 120
Lead	0.0500	0.0531		mg/L		106	80 - 120
Lithium	0.0500	0.0530		mg/L		106	80 - 120
Molybdenum	0.0500	0.0542		mg/L		108	80 - 120
Selenium	0.0500	0.0507		mg/L		101	80 - 120
Thallium	0.0100	0.0114		mg/L		114	80 - 120

Lab Sample ID: LCS 400-599395/2-A ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0588	^1+	mg/L		118	80 - 120
Calcium	5.00	5.21		mg/L		104	80 - 120

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

Lab Sample ID: 400-227774-G-4-B MS ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.11	B	0.100	0.198		mg/L		91	75 - 125
Calcium	45	B	5.00	48.7	4	mg/L		80	75 - 125
Lead	ND		0.0500	0.0594		mg/L		119	75 - 125
Lithium	ND		0.0500	0.0576		mg/L		115	75 - 125
Thallium	ND		0.0100	0.0118		mg/L		118	75 - 125

Lab Sample ID: 400-227774-G-4-C MSD ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.11	B	0.100	0.198		mg/L		92	75 - 125	0	20
Calcium	45	B	5.00	48.2	4	mg/L		69	75 - 125	1	20
Lead	ND		0.0500	0.0591		mg/L		118	75 - 125	1	20
Lithium	ND		0.0500	0.0575		mg/L		115	75 - 125	0	20
Thallium	ND		0.0100	0.0119		mg/L		119	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-598104/14-A
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/28/22 09:32	10/31/22 12:42	1

Lab Sample ID: LCS 400-598104/15-A
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.000930		mg/L		92	80 - 120

Lab Sample ID: 400-227800-I-6-B MS
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	^5-	0.00201	0.00181		mg/L		90	80 - 120

Lab Sample ID: 400-227800-I-6-C MSD
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	^5-	0.00201	0.00174		mg/L		86	80 - 120	4	20

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

Lab Sample ID: MB 400-597572/1
Matrix: Water
Analysis Batch: 597572

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			10/24/22 13:40	1

Lab Sample ID: LCS 400-597572/2
Matrix: Water
Analysis Batch: 597572

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	264		mg/L		90	78 - 122		

Lab Sample ID: 400-227511-B-1 DU
Matrix: Water
Analysis Batch: 597572

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	1600			1670		mg/L				4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-598649/13
Matrix: Water
Analysis Batch: 598649

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			11/01/22 03:51	1

Lab Sample ID: LCS 400-598649/14
Matrix: Water
Analysis Batch: 598649

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	48.1		mg/L		96	90 - 110		

Lab Sample ID: MRL 400-598649/15
Matrix: Water
Analysis Batch: 598649

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	1.45	J	mg/L		73	50 - 150		

Lab Sample ID: 400-227902-M-1 MS
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.1	4	mg/L		86	73 - 120		

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

Lab Sample ID: 400-227902-M-1 MSD
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.6	4	mg/L		91	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-597861/2
Matrix: Water
Analysis Batch: 597861

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	0.070	mg/L			10/26/22 09:00	1

Lab Sample ID: LCS 400-597861/5
Matrix: Water
Analysis Batch: 597861

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	5.12		mg/L		102	90 - 110

Lab Sample ID: MRL 400-597861/4
Matrix: Water
Analysis Batch: 597861

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	0.130		mg/L		130	

Lab Sample ID: 400-227702-B-3 MS
Matrix: Water
Analysis Batch: 597861

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	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125

Lab Sample ID: 400-227702-B-3 MSD
Matrix: Water
Analysis Batch: 597861

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	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125	0	4

Lab Sample ID: 400-227700-1 DU
Matrix: Water
Analysis Batch: 597861

Client Sample ID: MW-D6-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.21		0.215		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-598644/12
Matrix: Water
Analysis Batch: 598644

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			11/01/22 00:51	1

Lab Sample ID: LCS 400-598644/13
Matrix: Water
Analysis Batch: 598644

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	14.9		mg/L		100	90 - 110

Lab Sample ID: MRL 400-598644/14
Matrix: Water
Analysis Batch: 598644

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	4.80	J	mg/L		96	50 - 150

Lab Sample ID: 400-227700-1 MS
Matrix: Water
Analysis Batch: 598644

Client Sample ID: MW-D6-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.2	J	10.0	11.8		mg/L		96	77 - 128

Lab Sample ID: 400-227700-1 MSD
Matrix: Water
Analysis Batch: 598644

Client Sample ID: MW-D6-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.2	J	10.0	11.5		mg/L		93	77 - 128	2	5

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D6-20221019	10/19/22	1555	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 8.08
MW-D7-20221020	10/20/22	1551	1	Water	1	1	1	1	1	1	1	1	1	1		pH = 7.45
MW-D8-20221020	10/20/22	1410	1	Water	1	1	1	1	1	1	1	1	1	1		pH = 7.53
				Water												
				Water												
				Water												
				Water												
				Water												
			DG	Water												DG
				Water												
				Water												
				Water												
				Water												

400-227700 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc	10/21/22 1700	GEO	FEDEX	10/21/22	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/21/22 0855	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.0°C IR 2

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227700-1

Login Number: 227700
List Number: 1
Creator: Whitley, Adrian

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.	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	0.0°C IR8
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. Job ID: 400-227700-1
Project/Site: CCR Crisp County Power

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

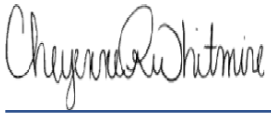
Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

eurofins | Environment Testing

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

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

CCR Crisp County Power

JOB NUMBER

400-227700-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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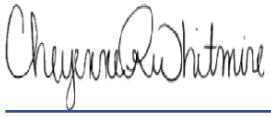
Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-227700-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227700-2

Receipt
The samples were received on 10/22/2022 8:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-588510:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D6-20221019 (400-227700-1), MW-D7-20221020 (400-227700-2), MW-D8-20221020 (400-227700-3), (LCS 160-588510/2-A), (MB 160-588510/1-A), (310-243397-E-1-A) and (310-243397-D-1-A DU)

Method 9320_Ra228: Radium-228 prep batch 160-588511:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D6-20221019 (400-227700-1), MW-D7-20221020 (400-227700-2), MW-D8-20221020 (400-227700-3), (LCS 160-588511/2-A), (MB 160-588511/1-A), (310-243397-E-1-B) and (310-243397-D-1-B DU)

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

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-2

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: CCR Crisp County Power

Job ID: 400-227700-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227700-1	MW-D6-20221019	Water	10/19/22 15:55	10/22/22 08:55
400-227700-2	MW-D7-20221020	Water	10/20/22 15:51	10/22/22 08:55
400-227700-3	MW-D8-20221020	Water	10/20/22 14:10	10/22/22 08:55

Client Sample ID: MW-D6-20221019

Date Collected: 10/19/22 15:55
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0975	U	0.0718	0.0723	1.00	0.101	pCi/L	11/04/22 06:57	11/30/22 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:12*	*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	0.343	U	0.307	0.309	1.00	0.484	pCi/L	11/04/22 07:25	11/18/22 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*1*
Y Carrier	*83.0*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*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	0.441	U	0.315	0.317	5.00	0.484	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D7-20221020

Date Collected: 10/20/22 15:51
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.184**		0.0858	0.0874	1.00	0.0968	pCi/L	11/04/22 06:57	11/30/22 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:12*	*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	-0.215	U	0.244	0.245	1.00	0.529	pCi/L	11/04/22 07:25	11/18/22 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*1*
Y Carrier	*78.1*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:35*	*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	-0.0315	U	0.259	0.260	5.00	0.529	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D8-20221020

Date Collected: 10/20/22 14:10
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227700-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0868	U	0.0719	0.0723	1.00	0.106	pCi/L	11/04/22 06:57	11/30/22 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.5*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:12*	*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	0.205	U	0.321	0.321	1.00	0.545	pCi/L	11/04/22 07:25	11/18/22 13:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:36*	*1*
Y Carrier	*81.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:36*	*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	0.291	U	0.329	0.329	5.00	0.545	pCi/L		11/30/22 15:38	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-2

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: CCR Crisp County Power

Job ID: 400-227700-2

Client Sample ID: MW-D6-20221019

Lab Sample ID: 400-227700-1

Date Collected: 10/19/22 15:55

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:12
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590568	FLC	EET SL	11/18/22 13:35
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-D7-20221020

Lab Sample ID: 400-227700-2

Date Collected: 10/20/22 15:51

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:12
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590568	FLC	EET SL	11/18/22 13:35
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-D8-20221020

Lab Sample ID: 400-227700-3

Date Collected: 10/20/22 14:10

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:12
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:36
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-2

Rad

Prep Batch: 588510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	PrecSep-21	
400-227700-2	MW-D7-20221020	Total/NA	Water	PrecSep-21	
400-227700-3	MW-D8-20221020	Total/NA	Water	PrecSep-21	
MB 160-588510/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588510/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-243397-D-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 588511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227700-1	MW-D6-20221019	Total/NA	Water	PrecSep_0	
400-227700-2	MW-D7-20221020	Total/NA	Water	PrecSep_0	
400-227700-3	MW-D8-20221020	Total/NA	Water	PrecSep_0	
MB 160-588511/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588511/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-243397-D-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-588510/1-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588510

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1345		0.0727	0.0737	1.00	0.0859	pCi/L	11/04/22 06:57	11/30/22 07:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 06:57*	*11/30/22 07:57*	*1*

Lab Sample ID: LCS 160-588510/2-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588510

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.714		1.02	1.00	0.0975	pCi/L	86	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*

Lab Sample ID: 310-243397-D-1-A DU
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588510

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.51			1.387		0.241	1.00	0.101	pCi/L			0.25	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-588511/1-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588511

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6649		0.372	0.377	1.00	0.537	pCi/L	11/04/22 07:25	11/18/22 13:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*
Y Carrier	*81.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*

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

Lab Sample ID: LCS 160-588511/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588511

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.43	9.353		1.27	1.00	0.516	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*
Y Carrier	*80.4*		*40 - 110*

Lab Sample ID: 310-243397-D-1-B DU
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588511

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.50			1.101		0.430	1.00	0.531	pCi/L			0.45	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*
Y Carrier	*81.9*		*40 - 110*

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

eurofins Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D6-20221019	10/19/22	1555	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 8.08
MW-D7-20221020	10/20/22	1551	1	Water	1	1	1	1	1	1	1	1	1	1		pH = 7.45
MW-D8-20221020	10/20/22	1410	1	Water	1	1	1	1	1	1	1	1	1	1		pH = 7.53
				Water												
				Water												
				Water												
				Water												
			DG	Water												DG
				Water												
				Water												
				Water												
				Water												

400-227700 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc	10/21/22 1700	GEO	FEDEX	10/21/22	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/21/22 0855	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.0°C IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227700-2

Login Number: 227700
List Number: 1
Creator: Whitley, Adrian

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.	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	0.0°C IR8
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227700-2

Login Number: 227700
List Number: 2
Creator: Booker, Autumn R

List Source: Eurofins St. Louis
List Creation: 10/25/22 12:28 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227700-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/23/2022 4:18:37 PM

JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227702-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

myEOL

Table of Contents

Job ID: 400-227702-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227702-1

Metals
Method 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-U2-20221020 (400-227702-1), MW-D4-20221020 (400-227702-2) and MW-D5-20221019 (400-227702-3). Elevated reporting limits (RLs) are provided.

Method 6020: The method blank for preparation batch 400-599395 and analytical batch 400-599995 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The initial calibration verification (ICV) result for batch 400-599960 was above the upper control limit for Arsenic and Cadmium. The method blank results were non-detects, and have been reported as qualified data.

Method 6020: The initial calibration verification (ICV) result for batch 400-599960 was above the upper control limit for Arsenic. The laboratory control spike results were within the acceptable limits, and have been reported as qualified data.

General Chemistry
Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-597861 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Client Sample ID: MW-U2-20221020 — Lab Sample ID: 400-227702-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	26		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	130		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	0.32		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	35		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.77				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D4-20221020 — Lab Sample ID: 400-227702-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.039		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	40		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.7	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.45				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D5-20221019 — Lab Sample ID: 400-227702-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.025		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	36		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	190		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.073	J F1	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.7	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.10				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227702-1	MW-U2-20221020	Water	10/20/22 08:32	10/22/22 08:55
400-227702-2	MW-D4-20221020	Water	10/20/22 11:08	10/22/22 08:55
400-227702-3	MW-D5-20221019	Water	10/19/22 17:25	10/22/22 08:55

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Client Sample ID: MW-U2-20221020
Date Collected: 10/20/22 08:32
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227702-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		11/05/22 13:34	10/20/22 01:06	10
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 15:12	10
Barium	**0.022**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 01:06	10
Beryllium	ND		0.0040	0.0018	mg/L		11/05/22 13:34	10/20/22 01:06	10
Boron	ND		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 01:06	10
Cadmium	ND		0.0020	0.0013	mg/L		11/05/22 13:34	11/10/22 15:12	10
Calcium	**26**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 15:12	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 15:12	10
Cobalt	ND		0.0050	0.0011	mg/L		11/05/22 13:34	10/20/22 01:06	10
Lead	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 01:06	10
Lithium	ND		0.0050	0.0098	mg/L		11/05/22 13:34	10/20/22 01:06	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 01:06	10
Selenium	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 01:06	10
Thallium	ND		0.0010	0.00092	mg/L		11/05/22 13:34	10/20/22 01:06	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:42	10/31/22 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**130**		5.0	5.0	mg/L			10/24/22 13:49	1
Chloride (SM 4500 Cl- E)	**2.5**		2.0	1.4	mg/L			11/01/22 04:15	1
Fluoride (SM 4500 F C)	**0.32**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**35**		5.0	1.4	mg/L			11/01/22 00:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.77**				SU			10/20/22 07:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Client Sample ID: MW-D4-20221020

Date Collected: 10/20/22 11:08
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227702-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		11/05/22 13:34	10/20/22 01:10	10
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 15:15	10
Barium	**0.039**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 01:10	10
Beryllium	ND		0.0040	0.0018	mg/L		11/05/22 13:34	10/20/22 01:10	10
Boron	ND		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 01:10	10
Cadmium	ND		0.0020	0.0013	mg/L		11/05/22 13:34	11/10/22 15:15	10
Calcium	**40**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 15:15	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 15:15	10
Cobalt	ND		0.0050	0.0011	mg/L		11/05/22 13:34	10/20/22 01:10	10
Lead	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 01:10	10
Lithium	ND		0.0050	0.0098	mg/L		11/05/22 13:34	10/20/22 01:10	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 01:10	10
Selenium	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 01:10	10
Thallium	ND		0.0010	0.00092	mg/L		11/05/22 13:34	10/20/22 01:10	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:42	10/31/22 13:31	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			10/24/22 13:49	1
Chloride (SM 4500 Cl- E)	**1.7**	**J**	2.0	1.4	mg/L			11/01/22 04:16	1
Fluoride (SM 4500 F C)	**0.22**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**1.8**	**J**	5.0	1.4	mg/L			11/01/22 00:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.45**				SU			10/20/22 10:08	1

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Client Sample ID: MW-D5-20221019

Lab Sample ID: 400-227702-3

Date Collected: 10/19/22 17:25

Matrix: Water

Date Received: 10/22/22 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	0.0030	mg/L		11/05/22 13:34	10/20/22 01:13	10
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 15:19	10
Barium	**0.025**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 01:13	10
Beryllium	ND		0.0040	0.0018	mg/L		11/05/22 13:34	10/20/22 01:13	10
Boron	ND		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 01:13	10
Cadmium	ND		0.0020	0.0013	mg/L		11/05/22 13:34	11/10/22 15:19	10
Calcium	**36**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 15:19	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 15:19	10
Cobalt	ND		0.0050	0.0011	mg/L		11/05/22 13:34	10/20/22 01:13	10
Lead	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 01:13	10
Lithium	ND		0.0050	0.0098	mg/L		11/05/22 13:34	10/20/22 01:13	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 01:13	10
Selenium	ND		0.0025	0.0016	mg/L		11/05/22 13:34	10/20/22 01:13	10
Thallium	ND		0.0010	0.00092	mg/L		11/05/22 13:34	10/20/22 01:13	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^5-	0.00020	0.00015	mg/L		10/28/22 09:42	10/31/22 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**190**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**5.9**		2.0	1.4	mg/L			11/01/22 04:02	1
Fluoride (SM 4500 F C)	**0.073**	**J F1**	0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**2.7**	**J**	5.0	1.4	mg/L			11/01/22 01:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.10**				SU			10/19/22 16:25	1

Client: Geosyntec Consultants, Inc.
Job ID: 400-227702-1
Project/Site: CCR Crisp County Power

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^5-	Linear Range Check (LRC) is outside acceptance limits, low 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.
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.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
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: CCR Crisp County Power

Job ID: 400-227702-1

Client Sample ID: MW-U2-20221020

Lab Sample ID: 400-227702-1

Date Collected: 10/20/22 08:32

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 15:12
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 01:06
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Prep	7470A			598227	NET	EET PEN	10/28/22 09:42 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:30
Total/NA	Analysis	SM 2540C		1	597586	VB	EET PEN	10/24/22 13:49
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:15
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:58
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/20/22 07:32

Client Sample ID: MW-D4-20221020

Lab Sample ID: 400-227702-2

Date Collected: 10/20/22 11:08

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 15:15
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 01:10
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Prep	7470A			598227	NET	EET PEN	10/28/22 09:42 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:31
Total/NA	Analysis	SM 2540C		1	597586	VB	EET PEN	10/24/22 13:49
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:16
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:58
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/20/22 10:08

Client Sample ID: MW-D5-20221019

Lab Sample ID: 400-227702-3

Date Collected: 10/19/22 17:25

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 15:19
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 01:13
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Prep	7470A			598227	NET	EET PEN	10/28/22 09:42 - 10/28/22 12:26 [1]
Total/NA	Analysis	7470A		1	598841	NET	EET PEN	10/31/22 13:32
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:02
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-1

Client Sample ID: MW-D5-20221019
Date Collected: 10/19/22 17:25
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227702-3
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	598644	DN1	EET PEN	11/01/22 01:05
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/19/22 16:25

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 598227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	7470A	
400-227702-2	MW-D4-20221020	Total/NA	Water	7470A	
400-227702-3	MW-D5-20221019	Total/NA	Water	7470A	
MB 400-598227/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-598227/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-227938-H-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-227938-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 598841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	7470A	598227
400-227702-2	MW-D4-20221020	Total/NA	Water	7470A	598227
400-227702-3	MW-D5-20221019	Total/NA	Water	7470A	598227
MB 400-598227/14-A	Method Blank	Total/NA	Water	7470A	598227
LCS 400-598227/15-A	Lab Control Sample	Total/NA	Water	7470A	598227
400-227938-H-1-B MS	Matrix Spike	Total/NA	Water	7470A	598227
400-227938-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	598227

Prep Batch: 599395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total Recoverable	Water	3005A	
400-227702-2	MW-D4-20221020	Total Recoverable	Water	3005A	
400-227702-3	MW-D5-20221019	Total Recoverable	Water	3005A	
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-227774-G-4-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-227774-G-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 599960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	6020	599395
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	599395
400-227774-G-4-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	599395
400-227774-G-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	599395

Analysis Batch: 599995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total Recoverable	Water	6020	599395
400-227702-2	MW-D4-20221020	Total Recoverable	Water	6020	599395
400-227702-3	MW-D5-20221019	Total Recoverable	Water	6020	599395
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	6020	599395
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	599395

Analysis Batch: 600516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total Recoverable	Water	6020	599395
400-227702-2	MW-D4-20221020	Total Recoverable	Water	6020	599395
400-227702-3	MW-D5-20221019	Total Recoverable	Water	6020	599395

General Chemistry

Analysis Batch: 597572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-3	MW-D5-20221019	Total/NA	Water	SM 2540C	
MB 400-597572/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-597572/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-227511-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 597586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	SM 2540C	
400-227702-2	MW-D4-20221020	Total/NA	Water	SM 2540C	
MB 400-597586/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-597586/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-227701-B-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 597861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	SM 4500 F C	
400-227702-2	MW-D4-20221020	Total/NA	Water	SM 4500 F C	
400-227702-3	MW-D5-20221019	Total/NA	Water	SM 4500 F C	
MB 400-597861/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-597861/5	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-597861/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-227702-3 MS	MW-D5-20221019	Total/NA	Water	SM 4500 F C	
400-227702-3 MSD	MW-D5-20221019	Total/NA	Water	SM 4500 F C	
400-227700-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 598644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227702-2	MW-D4-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227702-3	MW-D5-20221019	Total/NA	Water	SM 4500 SO4 E	
MB 400-598644/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-598644/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-598644/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-227700-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-227700-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-227701-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-227701-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 598649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227702-2	MW-D4-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227702-3	MW-D5-20221019	Total/NA	Water	SM 4500 Cl- E	
MB 400-598649/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-598649/42	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-598649/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 400-598649/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-598649/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-228001-N-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 598649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228001-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 597670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	Field Sampling	
400-227702-2	MW-D4-20221020	Total/NA	Water	Field Sampling	
400-227702-3	MW-D5-20221019	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-599395/1-A ^5
Matrix: Water
Analysis Batch: 599995

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		11/05/22 13:34	10/20/22 00:19	5
Barium	ND		0.0025	0.00070	mg/L		11/05/22 13:34	10/20/22 00:19	5
Beryllium	ND		0.0020	0.00092	mg/L		11/05/22 13:34	10/20/22 00:19	5
Boron	ND		0.050	0.0012	mg/L		11/05/22 13:34	10/20/22 00:19	5
Chromium	0.00135	J	0.0025	0.0010	mg/L		11/05/22 13:34	10/20/22 00:19	5
Cobalt	ND		0.0025	0.00056	mg/L		11/05/22 13:34	10/20/22 00:19	5
Lead	ND		0.0013	0.00081	mg/L		11/05/22 13:34	10/20/22 00:19	5
Lithium	ND		0.0025	0.0049	mg/L		11/05/22 13:34	10/20/22 00:19	5
Molybdenum	ND		0.010	0.0013	mg/L		11/05/22 13:34	10/20/22 00:19	5
Selenium	ND		0.0013	0.00082	mg/L		11/05/22 13:34	10/20/22 00:19	5
Thallium	ND		0.00050	0.00046	mg/L		11/05/22 13:34	10/20/22 00:19	5

Lab Sample ID: MB 400-599395/1-A ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^1+	0.0013	0.0012	mg/L		11/05/22 13:34	11/09/22 11:16	5
Cadmium	ND	^1+	0.0010	0.00065	mg/L		11/05/22 13:34	11/09/22 11:16	5
Calcium	0.198	J	0.25	0.13	mg/L		11/05/22 13:34	11/09/22 11:16	5

Lab Sample ID: LCS 400-599395/2-A ^5
Matrix: Water
Analysis Batch: 599995

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0553		mg/L		111	80 - 120
Barium	0.0500	0.0531		mg/L		106	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Boron	0.100	0.0873		mg/L		87	80 - 120
Cadmium	0.0500	0.0581		mg/L		116	80 - 120
Chromium	0.0500	0.0524		mg/L		105	80 - 120
Cobalt	0.0500	0.0543		mg/L		109	80 - 120
Lead	0.0500	0.0531		mg/L		106	80 - 120
Lithium	0.0500	0.0530		mg/L		106	80 - 120
Molybdenum	0.0500	0.0542		mg/L		108	80 - 120
Selenium	0.0500	0.0507		mg/L		101	80 - 120
Thallium	0.0100	0.0114		mg/L		114	80 - 120

Lab Sample ID: LCS 400-599395/2-A ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0588	^1+	mg/L		118	80 - 120
Calcium	5.00	5.21		mg/L		104	80 - 120

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

Lab Sample ID: 400-227774-G-4-B MS ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.11	B	0.100	0.198		mg/L		91	75 - 125
Calcium	45	B	5.00	48.7	4	mg/L		80	75 - 125
Lead	ND		0.0500	0.0594		mg/L		119	75 - 125
Lithium	ND		0.0500	0.0576		mg/L		115	75 - 125
Thallium	ND		0.0100	0.0118		mg/L		118	75 - 125

Lab Sample ID: 400-227774-G-4-C MSD ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.11	B	0.100	0.198		mg/L		92	75 - 125	0	20
Calcium	45	B	5.00	48.2	4	mg/L		69	75 - 125	1	20
Lead	ND		0.0500	0.0591		mg/L		118	75 - 125	1	20
Lithium	ND		0.0500	0.0575		mg/L		115	75 - 125	0	20
Thallium	ND		0.0100	0.0119		mg/L		119	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-598227/14-A
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/28/22 09:42	10/31/22 13:17	1

Lab Sample ID: LCS 400-598227/15-A
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.000970		mg/L		96	80 - 120

Lab Sample ID: 400-227938-H-1-B MS
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	^5-	0.00201	0.00171		mg/L		85	80 - 120

Lab Sample ID: 400-227938-H-1-C MSD
Matrix: Water
Analysis Batch: 598841

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	^5-	0.00201	0.00162		mg/L		80	80 - 120	5	20

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

Lab Sample ID: MB 400-597572/1
Matrix: Water
Analysis Batch: 597572

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			10/24/22 13:40	1

Lab Sample ID: LCS 400-597572/2
Matrix: Water
Analysis Batch: 597572

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	264		mg/L		90	78 - 122

Lab Sample ID: 400-227511-B-1 DU
Matrix: Water
Analysis Batch: 597572

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	1600		1670		mg/L		4	5

Lab Sample ID: MB 400-597586/1
Matrix: Water
Analysis Batch: 597586

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			10/24/22 13:49	1

Lab Sample ID: LCS 400-597586/2
Matrix: Water
Analysis Batch: 597586

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	304		mg/L		104	78 - 122

Lab Sample ID: 400-227701-B-4 DU
Matrix: Water
Analysis Batch: 597586

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	470		428	F3	mg/L		10	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-598649/13
Matrix: Water
Analysis Batch: 598649

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			11/01/22 03:51	1

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

Lab Sample ID: MB 400-598649/42
Matrix: Water
Analysis Batch: 598649

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			11/01/22 04:06	1

Lab Sample ID: LCS 400-598649/14
Matrix: Water
Analysis Batch: 598649

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	48.1		mg/L		96	90 - 110		

Lab Sample ID: LCS 400-598649/43
Matrix: Water
Analysis Batch: 598649

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	47.1		mg/L		94	90 - 110		

Lab Sample ID: MRL 400-598649/15
Matrix: Water
Analysis Batch: 598649

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	1.45	J	mg/L		73	50 - 150		

Lab Sample ID: 400-227902-M-1 MS
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.1	4	mg/L		86	73 - 120		

Lab Sample ID: 400-227902-M-1 MSD
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.6	4	mg/L		91	73 - 120	1	8

Lab Sample ID: 400-228001-N-2 MS
Matrix: Water
Analysis Batch: 598649

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	27		10.0	36.2		mg/L		94	73 - 120		

Lab Sample ID: 400-228001-N-2 MSD
Matrix: Water
Analysis Batch: 598649

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	27		10.0	36.7		mg/L		100	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-597861/2
Matrix: Water
Analysis Batch: 597861

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	0.070	mg/L			10/26/22 09:00	1

Lab Sample ID: LCS 400-597861/5
Matrix: Water
Analysis Batch: 597861

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	5.12		mg/L		102	90 - 110		

Lab Sample ID: MRL 400-597861/4
Matrix: Water
Analysis Batch: 597861

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	0.130		mg/L		130			

Lab Sample ID: 400-227702-3 MS
Matrix: Water
Analysis Batch: 597861

Client Sample ID: MW-D5-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125		

Lab Sample ID: 400-227702-3 MSD
Matrix: Water
Analysis Batch: 597861

Client Sample ID: MW-D5-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125	0	4

Lab Sample ID: 400-227700-B-1 DU
Matrix: Water
Analysis Batch: 597861

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.21			0.215		mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-598644/12
Matrix: Water
Analysis Batch: 598644

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			11/01/22 00:51	1

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

Lab Sample ID: LCS 400-598644/13
Matrix: Water
Analysis Batch: 598644

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	14.9		mg/L		100	90 - 110

Lab Sample ID: MRL 400-598644/14
Matrix: Water
Analysis Batch: 598644

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	4.80	J	mg/L		96	50 - 150

Lab Sample ID: 400-227700-B-1 MS
Matrix: Water
Analysis Batch: 598644

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	2.2	J	10.0	11.8		mg/L		96	77 - 128

Lab Sample ID: 400-227700-B-1 MSD
Matrix: Water
Analysis Batch: 598644

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	2.2	J	10.0	11.5		mg/L		93	77 - 128	2	5

Lab Sample ID: 400-227701-B-3 MS
Matrix: Water
Analysis Batch: 598644

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	2.4	J	10.0	12.2		mg/L		98	77 - 128

Lab Sample ID: 400-227701-B-3 MSD
Matrix: Water
Analysis Batch: 598644

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	2.4	J	10.0	12.2		mg/L		98	77 - 128	1	5

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-4, 001 Fax: 850-478-2671

Chain of Custo Record

eurofins Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:

Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:	Analysis Requested
City: Kennesaw	TAT Requested (days): STANDARD	
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No	
Phone:	PO #: Purchase Order not required	
Email: dyifru@geosyntec.com	WO #:	
Project Name: Crisp County CCR	Project #: 40007960	
Site: Crisp County Power	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-U2-20221020	10/20/22	0832	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.77
MW-D4-20221020	10/20/22	1108	1	Water	1	1	1	1	1	1	1	1	1	1		pH = 7.45
MW-D5-20221019	10/19/22	1725		Water	1	1	1	1	1	1	1	1	1	1		pH = 7.10
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG D5 D5

400-227702 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc GEO	10/21/22 1700	GEO	FEDEX	10/21/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/22/22 [illegible] 855	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4 IR6

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227702-1

Login Number: 227702

List Source: Eurofins Pensacola

List Number: 1

Creator: Whitley, Adrian

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.	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	3.4°C IR8
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: CCR Crisp County Power

Job ID: 400-227702-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

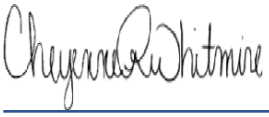
Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2022 4:49:05 PM

JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227702-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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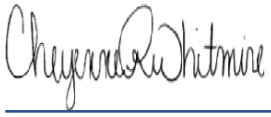
Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-227702-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227702-2

Receipt
The samples were received on 10/22/2022 8:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-588510:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-U2-20221020 (400-227702-1), MW-D4-20221020 (400-227702-2), MW-D5-20221019 (400-227702-3), (LCS 160-588510/2-A), (MB 160-588510/1-A), (310-243397-E-1-A) and (310-243397-D-1-A DU)

Method 9320_Ra228: Radium-228 prep batch 160-588511:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-U2-20221020 (400-227702-1), MW-D4-20221020 (400-227702-2), MW-D5-20221019 (400-227702-3), (LCS 160-588511/2-A), (MB 160-588511/1-A), (310-243397-E-1-B) and (310-243397-D-1-B DU)

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

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-2

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: CCR Crisp County Power

Job ID: 400-227702-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227702-1	MW-U2-20221020	Water	10/20/22 08:32	10/22/22 08:55
400-227702-2	MW-D4-20221020	Water	10/20/22 11:08	10/22/22 08:55
400-227702-3	MW-D5-20221019	Water	10/19/22 17:25	10/22/22 08:55

Client Sample ID: MW-U2-20221020

Date Collected: 10/20/22 08:32
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227702-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0975	U	0.103	0.104	1.00	0.166	pCi/L	11/04/22 06:57	11/30/22 10:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*40 - 110*	*11/04/22 06:57*	*11/30/22 10:01*	*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	0.371	U	0.452	0.454	1.00	0.748	pCi/L	11/04/22 07:25	11/18/22 13:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*1*
Y Carrier	*79.3*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*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	0.468	U	0.464	0.466	5.00	0.748	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D4-20221020

Date Collected: 10/20/22 11:08
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227702-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182		0.0891	0.0905	1.00	0.107	pCi/L	11/04/22 06:57	11/30/22 10:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*40 - 110*	*11/04/22 06:57*	*11/30/22 10:01*	*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	0.609		0.338	0.342	1.00	0.470	pCi/L	11/04/22 07:25	11/18/22 13:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*1*
Y Carrier	*82.6*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*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	0.791		0.350	0.354	5.00	0.470	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D5-20221019

Date Collected: 10/19/22 17:25
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227702-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.217**		0.0987	0.101	1.00	0.118	pCi/L	11/04/22 06:57	11/30/22 10:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.7*		*40 - 110*	*11/04/22 06:57*	*11/30/22 10:01*	*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	0.275	0.275	1.00	0.459	pCi/L	11/04/22 07:25	11/18/22 13:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.7*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*1*
Y Carrier	*83.7*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*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	0.426	U	0.292	0.293	5.00	0.459	pCi/L		11/30/22 15:38	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-2

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: CCR Crisp County Power

Job ID: 400-227702-2

Client Sample ID: MW-U2-20221020

Lab Sample ID: 400-227702-1

Date Collected: 10/20/22 08:32

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591653	FLC	EET SL	11/30/22 10:01
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:37
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-D4-20221020

Lab Sample ID: 400-227702-2

Date Collected: 10/20/22 11:08

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591653	FLC	EET SL	11/30/22 10:01
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:37
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-D5-20221019

Lab Sample ID: 400-227702-3

Date Collected: 10/19/22 17:25

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591653	FLC	EET SL	11/30/22 10:01
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:37
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227702-2

Rad

Prep Batch: 588510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	PrecSep-21	
400-227702-2	MW-D4-20221020	Total/NA	Water	PrecSep-21	
400-227702-3	MW-D5-20221019	Total/NA	Water	PrecSep-21	
MB 160-588510/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588510/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-243397-D-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 588511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227702-1	MW-U2-20221020	Total/NA	Water	PrecSep_0	
400-227702-2	MW-D4-20221020	Total/NA	Water	PrecSep_0	
400-227702-3	MW-D5-20221019	Total/NA	Water	PrecSep_0	
MB 160-588511/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588511/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-243397-D-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-588510/1-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588510

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1345		0.0727	0.0737	1.00	0.0859	pCi/L	11/04/22 06:57	11/30/22 07:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 06:57*	*11/30/22 07:57*	*1*

Lab Sample ID: LCS 160-588510/2-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588510

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.714		1.02	1.00	0.0975	pCi/L	86	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*

Lab Sample ID: 310-243397-D-1-A DU
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588510

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.51			1.387		0.241	1.00	0.101	pCi/L			0.25	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-588511/1-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588511

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6649		0.372	0.377	1.00	0.537	pCi/L	11/04/22 07:25	11/18/22 13:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*
Y Carrier	*81.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*

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

Lab Sample ID: LCS 160-588511/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588511

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.43	9.353		1.27	1.00	0.516	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*
Y Carrier	*80.4*		*40 - 110*

Lab Sample ID: 310-243397-D-1-B DU
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588511

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.50			1.101		0.430	1.00	0.531	pCi/L			0.45	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*
Y Carrier	*81.9*		*40 - 110*

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-4, 001 Fax: 850-478-2671

Chain of Custo Record

eurofins Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-U2-20221020	10/20/22	0832	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.77
MW-D4-20221020	10/20/22	1108	1	Water	|	|	|	|	|	|	|	|	|	|		pH = 7.45
MW-D5-20221019	10/19/22	1725	1	Water	|	|	|	|	|	|	|	|	|	|		pH = 7.10
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-227702 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc GEO	10/21/22 1700	GEO	FEDEX	10/21/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/22/22 [illegible]	Company GEO

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4°C IR6

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227702-2

Login Number: 227702
List Number: 1
Creator: Whitley, Adrian

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.	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	3.4°C IR8
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227702-2

Login Number: 227702
List Number: 2
Creator: Booker, Autumn R

List Source: Eurofins St. Louis
List Creation: 10/25/22 12:28 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Job ID: 400-227702-2
Project/Site: CCR Crisp County Power

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/9/2023 6:08:28 PM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-230176-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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Authorization

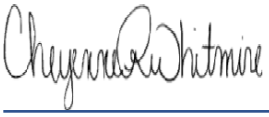

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Table of Contents

Job ID: 400-230176-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-230176-1

Receipt
The samples were received on 12/8/2022 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

Metals
Method 6020: The method blank for preparation batch 400-604669 and analytical batch 400-604778 contained Chromium and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-604992 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

Method 7470A: The method blank for preparation batch 400-604280 and analytical batch 400-605577 contained Mercury above method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-604238 was outside control limits. Sample non-homogeneity is suspected.

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

Detection Summary

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

Job ID: 400-230176-1

Client Sample ID: MW-U1-20221205 — Lab Sample ID: 400-230176-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0027		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.0099	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0022	J B	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0014	B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00019	J B	0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.099	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.2	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.66				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U2-20221206 — Lab Sample ID: 400-230176-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.019		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.0085	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	38		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0023	J B	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0021	B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00018	J B	0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.30		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	29		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.64				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-3-20221205 — Lab Sample ID: 400-230176-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.027		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.0061	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	46		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0019	J B	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0013	B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00019	J B	0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	190		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	7.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.6	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	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: 400-230176-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-230176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-230176-1	MW-U1-20221205	Water	12/05/22 13:32	12/08/22 13:55
400-230176-2	MW-U2-20221206	Water	12/06/22 11:47	12/08/22 13:55
400-230176-3	DUP-3-20221205	Water	12/05/22 12:00	12/08/22 13:55

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

Job ID: 400-230176-1

Client Sample ID: MW-U1-20221205

Date Collected: 12/05/22 13:32
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 22:18	5
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 15:59	5
Barium	**0.0027**		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 22:18	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 22:18	5
Boron	**0.0099**	**J B**	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 22:18	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 15:59	5
Calcium	**35**		0.25	0.13	mg/L		12/13/22 12:43	12/13/22 22:18	5
Chromium	**0.0022**	**J B**	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 22:18	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 22:18	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 22:18	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 22:18	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 22:18	5
Selenium	**0.0014**	**B**	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 22:18	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 22:18	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00019**	**J B**	0.00020	0.00015	mg/L		12/12/22 09:00	12/19/22 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**170**		5.0	5.0	mg/L			12/09/22 12:30	1
Chloride (SM 4500 Cl- E)	**2.1**		2.0	1.4	mg/L			12/19/22 00:11	1
Fluoride (SM 4500 F C)	**0.099**	**J**	0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**2.2**	**J**	5.0	1.4	mg/L			12/18/22 23:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.66**				SU			12/05/22 12:32	1

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

Job ID: 400-230176-1

Client Sample ID: MW-U2-20221206

Date Collected: 12/06/22 11:47
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 22:21	5
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 16:02	5
Barium	**0.019**		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 22:21	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 22:21	5
Boron	**0.0085**	**J B**	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 22:21	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 16:02	5
Calcium	**38**		0.25	0.13	mg/L		12/13/22 12:43	12/13/22 22:21	5
Chromium	**0.0023**	**J B**	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 22:21	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 22:21	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 22:21	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 22:21	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 22:21	5
Selenium	**0.0021**	**B**	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 22:21	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 22:21	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00018**	**J B**	0.00020	0.00015	mg/L		12/12/22 09:00	12/19/22 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**170**		5.0	5.0	mg/L			12/09/22 12:30	1
Chloride (SM 4500 Cl- E)	**3.3**		2.0	1.4	mg/L			12/19/22 00:11	1
Fluoride (SM 4500 F C)	**0.30**		0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**29**		5.0	1.4	mg/L			12/18/22 23:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.64**				SU			12/06/22 10:47	1

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

Job ID: 400-230176-1

Client Sample ID: DUP-3-20221205

Date Collected: 12/05/22 12:00
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 22:25	5
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 16:31	5
Barium	**0.027**		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 22:25	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 22:25	5
Boron	**0.0061**	**J B**	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 22:25	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 16:31	5
Calcium	**46**		0.25	0.13	mg/L		12/13/22 12:43	12/13/22 22:25	5
Chromium	**0.0019**	**J B**	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 22:25	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 22:25	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 22:25	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 22:25	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 22:25	5
Selenium	**0.0013**	**B**	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 22:25	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 22:25	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00019**	**J B**	0.00020	0.00015	mg/L		12/12/22 09:00	12/19/22 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**190**		5.0	5.0	mg/L			12/09/22 12:30	1
Chloride (SM 4500 Cl- E)	**7.1**		2.0	1.4	mg/L			12/19/22 00:12	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**1.6**	**J**	5.0	1.4	mg/L			12/18/22 23:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			12/05/22 11:00	1

Definitions/Glossary

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

Job ID: 400-230176-1

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.
B	Compound was found in the blank and sample.
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
F3	Duplicate RPD exceeds the control limit
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

Job ID: 400-230176-1

Client Sample ID: MW-U1-20221205

Lab Sample ID: 400-230176-1

Date Collected: 12/05/22 13:32

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604992	NTH	EET PEN	12/14/22 15:59
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604778	NTH	EET PEN	12/13/22 22:18
Total/NA	Prep	7470A			604280	NET	EET PEN	12/12/22 09:00 - 12/12/22 13:19 [1]
Total/NA	Analysis	7470A		1	605577	BAW	EET PEN	12/19/22 13:28
Total/NA	Analysis	SM 2540C		1	604238	VB	EET PEN	12/09/22 12:30
Total/NA	Analysis	SM 4500 Cl- E		1	605377	DN1	EET PEN	12/19/22 00:11
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33
Total/NA	Analysis	SM 4500 SO4 E		1	605376	DN1	EET PEN	12/18/22 23:18
Total/NA	Analysis	Field Sampling		1	604168	S1K	EET PEN	12/05/22 12:32

Client Sample ID: MW-U2-20221206

Lab Sample ID: 400-230176-2

Date Collected: 12/06/22 11:47

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604992	NTH	EET PEN	12/14/22 16:02
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604778	NTH	EET PEN	12/13/22 22:21
Total/NA	Prep	7470A			604280	NET	EET PEN	12/12/22 09:00 - 12/12/22 13:19 [1]
Total/NA	Analysis	7470A		1	605577	BAW	EET PEN	12/19/22 13:46
Total/NA	Analysis	SM 2540C		1	604238	VB	EET PEN	12/09/22 12:30
Total/NA	Analysis	SM 4500 Cl- E		1	605377	DN1	EET PEN	12/19/22 00:11
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33
Total/NA	Analysis	SM 4500 SO4 E		1	605376	DN1	EET PEN	12/18/22 23:19
Total/NA	Analysis	Field Sampling		1	604168	S1K	EET PEN	12/06/22 10:47

Client Sample ID: DUP-3-20221205

Lab Sample ID: 400-230176-3

Date Collected: 12/05/22 12:00

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604992	NTH	EET PEN	12/14/22 16:31
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604778	NTH	EET PEN	12/13/22 22:25
Total/NA	Prep	7470A			604280	NET	EET PEN	12/12/22 09:00 - 12/12/22 13:19 [1]
Total/NA	Analysis	7470A		1	605577	BAW	EET PEN	12/19/22 13:47
Total/NA	Analysis	SM 2540C		1	604238	VB	EET PEN	12/09/22 12:30
Total/NA	Analysis	SM 4500 Cl- E		1	605377	DN1	EET PEN	12/19/22 00:12
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33

Lab Chronicle

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

Job ID: 400-230176-1

Client Sample ID: DUP-3-20221205

Date Collected: 12/05/22 12:00
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-3

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	605376	DN1	EET PEN	12/18/22 23:20
Total/NA	Analysis	Field Sampling		1	604168	S1K	EET PEN	12/05/22 11:00

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 604280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	7470A	
400-230176-2	MW-U2-20221206	Total/NA	Water	7470A	
400-230176-3	DUP-3-20221205	Total/NA	Water	7470A	
MB 400-604280/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-604280/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-230103-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-230103-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 604669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total Recoverable	Water	3005A	
400-230176-2	MW-U2-20221206	Total Recoverable	Water	3005A	
400-230176-3	DUP-3-20221205	Total Recoverable	Water	3005A	
MB 400-604669/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-604669/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-230004-G-6-A MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-230004-G-6-B MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 604778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total Recoverable	Water	6020	604669
400-230176-2	MW-U2-20221206	Total Recoverable	Water	6020	604669
400-230176-3	DUP-3-20221205	Total Recoverable	Water	6020	604669
MB 400-604669/1-A ^5	Method Blank	Total Recoverable	Water	6020	604669
LCS 400-604669/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	604669
400-230004-G-6-A MS ^5	Matrix Spike	Total Recoverable	Water	6020	604669
400-230004-G-6-B MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	604669

Analysis Batch: 604992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total Recoverable	Water	6020	604669
400-230176-2	MW-U2-20221206	Total Recoverable	Water	6020	604669
400-230176-3	DUP-3-20221205	Total Recoverable	Water	6020	604669
MB 400-604669/1-A ^5	Method Blank	Total Recoverable	Water	6020	604669
LCS 400-604669/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	604669

Analysis Batch: 605577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	7470A	604280
400-230176-2	MW-U2-20221206	Total/NA	Water	7470A	604280
400-230176-3	DUP-3-20221205	Total/NA	Water	7470A	604280
MB 400-604280/14-A	Method Blank	Total/NA	Water	7470A	604280
LCS 400-604280/15-A	Lab Control Sample	Total/NA	Water	7470A	604280
400-230103-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	604280
400-230103-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	604280

General Chemistry

Analysis Batch: 604238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 604238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-2	MW-U2-20221206	Total/NA	Water	SM 2540C	
400-230176-3	DUP-3-20221205	Total/NA	Water	SM 2540C	
MB 400-604238/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-604238/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-230176-1 DU	MW-U1-20221205	Total/NA	Water	SM 2540C	

Analysis Batch: 605044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	SM 4500 F C	
400-230176-2	MW-U2-20221206	Total/NA	Water	SM 4500 F C	
400-230176-3	DUP-3-20221205	Total/NA	Water	SM 4500 F C	
MB 400-605044/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-605044/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-605044/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-230176-1 MS	MW-U1-20221205	Total/NA	Water	SM 4500 F C	
400-230176-1 MSD	MW-U1-20221205	Total/NA	Water	SM 4500 F C	
400-230493-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 605376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	SM 4500 SO4 E	
400-230176-2	MW-U2-20221206	Total/NA	Water	SM 4500 SO4 E	
400-230176-3	DUP-3-20221205	Total/NA	Water	SM 4500 SO4 E	
MB 400-605376/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-605376/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-605376/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-230176-1 MS	MW-U1-20221205	Total/NA	Water	SM 4500 SO4 E	
400-230176-1 MSD	MW-U1-20221205	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 605377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	SM 4500 Cl- E	
400-230176-2	MW-U2-20221206	Total/NA	Water	SM 4500 Cl- E	
400-230176-3	DUP-3-20221205	Total/NA	Water	SM 4500 Cl- E	
MB 400-605377/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-605377/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-605377/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-230012-G-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-230012-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 604168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	Field Sampling	
400-230176-2	MW-U2-20221206	Total/NA	Water	Field Sampling	
400-230176-3	DUP-3-20221205	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-604669/1-A ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 21:13	5
Barium	ND		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 21:13	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 21:13	5
Boron	0.00208	J	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 21:13	5
Calcium	ND		0.25	0.13	mg/L		12/13/22 12:43	12/13/22 21:13	5
Chromium	0.00129	J	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 21:13	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 21:13	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 21:13	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 21:13	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 21:13	5
Selenium	0.00118	J	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 21:13	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 21:13	5

Lab Sample ID: MB 400-604669/1-A ^5
Matrix: Water
Analysis Batch: 604992

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 15:50	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 15:50	5

Lab Sample ID: LCS 400-604669/2-A ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0532		mg/L		106	80 - 120
Barium	0.0500	0.0536		mg/L		107	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Boron	0.100	0.100		mg/L		100	80 - 120
Calcium	5.00	5.41		mg/L		108	80 - 120
Chromium	0.0500	0.0535		mg/L		107	80 - 120
Cobalt	0.0500	0.0518		mg/L		104	80 - 120
Lead	0.0500	0.0512		mg/L		102	80 - 120
Lithium	0.0500	0.0499		mg/L		100	80 - 120
Molybdenum	0.0500	0.0508		mg/L		102	80 - 120
Selenium	0.0500	0.0514		mg/L		103	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: LCS 400-604669/2-A ^5
Matrix: Water
Analysis Batch: 604992

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0512		mg/L		102	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120

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

Lab Sample ID: 400-230004-G-6-A MS ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	ND		0.0500	0.0488		mg/L		98	75 - 125		
Barium	0.34		0.0500	0.424	4	mg/L		169	75 - 125		
Beryllium	ND		0.0500	0.0520		mg/L		104	75 - 125		
Boron	0.091	B	0.100	0.188		mg/L		97	75 - 125		
Chromium	0.0039	B ^2	0.0500	0.0592		mg/L		111	75 - 125		
Cobalt	0.0053		0.0500	0.0566		mg/L		103	75 - 125		
Lead	0.0014		0.0500	0.0541		mg/L		105	75 - 125		
Lithium	ND		0.0500	0.0525		mg/L		105	75 - 125		
Molybdenum	0.0015	J	0.0500	0.0506		mg/L		98	75 - 125		
Selenium	0.0013	B	0.0500	0.0489		mg/L		95	75 - 125		
Thallium	ND		0.0100	0.0104		mg/L		104	75 - 125		

Lab Sample ID: 400-230004-G-6-B MSD ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0486		mg/L		97	75 - 125	0	20
Barium	0.34		0.0500	0.422	4	mg/L		164	75 - 125	1	20
Beryllium	ND		0.0500	0.0517		mg/L		103	75 - 125	1	20
Boron	0.091	B	0.100	0.192		mg/L		101	75 - 125	2	20
Chromium	0.0039	B ^2	0.0500	0.0584		mg/L		109	75 - 125	1	20
Cobalt	0.0053		0.0500	0.0564		mg/L		102	75 - 125	0	20
Lead	0.0014		0.0500	0.0539		mg/L		105	75 - 125	0	20
Lithium	ND		0.0500	0.0540		mg/L		108	75 - 125	3	20
Molybdenum	0.0015	J	0.0500	0.0501		mg/L		97	75 - 125	1	20
Selenium	0.0013	B	0.0500	0.0490		mg/L		95	75 - 125	0	20
Thallium	ND		0.0100	0.0105		mg/L		105	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-604280/14-A
Matrix: Water
Analysis Batch: 605577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000180	J	0.00020	0.00015	mg/L		12/12/22 09:00	12/19/22 12:47	1

Lab Sample ID: LCS 400-604280/15-A
Matrix: Water
Analysis Batch: 605577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604280

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.00111		mg/L		110	80 - 120		

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

Lab Sample ID: 400-230103-A-1-B MS
Matrix: Water
Analysis Batch: 605577

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 604280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00017	J B F1	0.00201	0.00275	F1	mg/L		128	80 - 120

Lab Sample ID: 400-230103-A-1-C MSD
Matrix: Water
Analysis Batch: 605577

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 604280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00017	J B F1	0.00201	0.00267	F1	mg/L		124	80 - 120	3	20

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

Lab Sample ID: MB 400-604238/1
Matrix: Water
Analysis Batch: 604238

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			12/09/22 12:30	1

Lab Sample ID: LCS 400-604238/2
Matrix: Water
Analysis Batch: 604238

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	330		mg/L		113	78 - 122

Lab Sample ID: 400-230176-1 DU
Matrix: Water
Analysis Batch: 604238

Client Sample ID: MW-U1-20221205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	170		146	F3	mg/L		13	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-605377/13
Matrix: Water
Analysis Batch: 605377

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			12/18/22 23:43	1

Lab Sample ID: LCS 400-605377/14
Matrix: Water
Analysis Batch: 605377

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	49.3		mg/L		99	90 - 110

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

Lab Sample ID: MRL 400-605377/15
Matrix: Water
Analysis Batch: 605377

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	1.74	J	mg/L		87	50 - 150		

Lab Sample ID: 400-230012-G-1 MS
Matrix: Water
Analysis Batch: 605377

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	3.9		10.0	12.1		mg/L		82	73 - 120		

Lab Sample ID: 400-230012-G-1 MSD
Matrix: Water
Analysis Batch: 605377

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	3.9		10.0	12.7		mg/L		88	73 - 120	5	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-605044/10
Matrix: Water
Analysis Batch: 605044

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	0.070	mg/L			12/15/22 13:33	1

Lab Sample ID: LCS 400-605044/13
Matrix: Water
Analysis Batch: 605044

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	4.99		mg/L		100	90 - 110		

Lab Sample ID: MRL 400-605044/12
Matrix: Water
Analysis Batch: 605044

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	0.104		mg/L		104			

Lab Sample ID: 400-230176-1 MS
Matrix: Water
Analysis Batch: 605044

Client Sample ID: MW-U1-20221205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.099	J	0.100	0.177		mg/L		78	75 - 125		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-230176-1 MSD
Matrix: Water
Analysis Batch: 605044

Client Sample ID: MW-U1-20221205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.099	J	0.100	0.185		mg/L		85	75 - 125	4	4

Lab Sample ID: 400-230493-B-1 DU
Matrix: Water
Analysis Batch: 605044

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-605376/12
Matrix: Water
Analysis Batch: 605376

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			12/18/22 23:07	1

Lab Sample ID: LCS 400-605376/13
Matrix: Water
Analysis Batch: 605376

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	15.0		mg/L		100	90 - 110

Lab Sample ID: MRL 400-605376/14
Matrix: Water
Analysis Batch: 605376

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	4.13	J	mg/L		83	50 - 150

Lab Sample ID: 400-230176-1 MS
Matrix: Water
Analysis Batch: 605376

Client Sample ID: MW-U1-20221205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.2	J	10.0	11.7		mg/L		95	77 - 128

Lab Sample ID: 400-230176-1 MSD
Matrix: Water
Analysis Batch: 605376

Client Sample ID: MW-U1-20221205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.2	J	10.0	11.9		mg/L		97	77 - 128	2	5

Eurofins Pensacola
3355 McLem ve
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

eurofins Environment Testing America

1/9/2023

Client Information	Sampler: Imgenur Tepecik	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

400-230176 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-U1-20221205	12/05/22	1332	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.66
MW-U2-20221206	12/06/22	1147	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.64
DUP-3-20221205	12/05/22	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Imgenur Tepecik GEO	12/07/22 1700	GEO	FEDEX	12/07/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/8/22 1355	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7 IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230176-1

Login Number: 230176
List Number: 1
Creator: Roberts, Alexis J

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.	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	0.9°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 <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. Job ID: 400-230176-1
Project/Site: Crisp County Power

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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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

400-230176-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

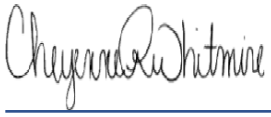
my EOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-230176-2

Job ID: 400-230176-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-230176-2

Receipt
The samples were received on 12/8/2022 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

RAD
Method 9315: Radium-226 batch 593448. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20221205 (400-230176-1), MW-U2-20221206 (400-230176-2), DUP-3-20221205 (400-230176-3), (LCS 160-593448/2-A), (MB 160-593448/1-A), (240-177702-J-1-A), (240-177702-N-1-B MS) and (240-177702-M-1-B MSD)

Method 9320: Radium-228 batch 593456. The method blank (MB) activity above the RL. The following associated samples are below the reporting limit for the contaminant, therefore, re-analysis is not required. The data have been reported. (MB 160-593456/1-A)

Method 9320: Radium-228 batch 593456. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20221205 (400-230176-1), MW-U2-20221206 (400-230176-2), DUP-3-20221205 (400-230176-3), (LCS 160-593456/2-A), (MB 160-593456/1-A), (240-177702-J-1-B), (240-177702-N-1-C MS) and (240-177702-M-1-C MSD)

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

Method Summary

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

Job ID: 400-230176-2

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: 400-230176-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-230176-1	MW-U1-20221205	Water	12/05/22 13:32	12/08/22 13:55
400-230176-2	MW-U2-20221206	Water	12/06/22 11:47	12/08/22 13:55
400-230176-3	DUP-3-20221205	Water	12/05/22 12:00	12/08/22 13:55

Client Sample ID: MW-U1-20221205

Date Collected: 12/05/22 13:32
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0326	U	0.0635	0.0635	1.00	0.112	pCi/L	12/13/22 11:06	01/11/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:40*	*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	0.206	U	0.308	0.309	1.00	0.522	pCi/L	12/13/22 11:41	12/28/22 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*1*
Y Carrier	*80.4*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*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	0.238	U	0.314	0.315	5.00	0.522	pCi/L		01/16/23 12:15	1

Client Sample ID: MW-U2-20221206

Date Collected: 12/06/22 11:47
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0566	U	0.0672	0.0674	1.00	0.110	pCi/L	12/13/22 11:06	01/11/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:40*	*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	**0.853**		0.417	0.424	1.00	0.589	pCi/L	12/13/22 11:41	12/28/22 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*1*
Y Carrier	*80.7*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*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	**0.910**		0.422	0.429	5.00	0.589	pCi/L		01/16/23 12:15	1

Client Sample ID: DUP-3-20221205

Date Collected: 12/05/22 12:00
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230176-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0316	U	0.0614	0.0615	1.00	0.109	pCi/L	12/13/22 11:06	01/11/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:40*	*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	0.502	U	0.357	0.360	1.00	0.546	pCi/L	12/13/22 11:41	12/28/22 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*1*
Y Carrier	*84.1*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*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	0.533	U	0.362	0.365	5.00	0.546	pCi/L		01/16/23 12:15	1

Definitions/Glossary

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

Job ID: 400-230176-2

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

Job ID: 400-230176-2

Client Sample ID: MW-U1-20221205

Lab Sample ID: 400-230176-1

Date Collected: 12/05/22 13:32

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593448	DJP	EET SL	12/13/22 11:06
Total/NA	Analysis	9315		1	596520	FLC	EET SL	01/11/23 09:40
Total/NA	Prep	PrecSep_0			593456	DJP	EET SL	12/13/22 11:41
Total/NA	Analysis	9320		1	594940	FLC	EET SL	12/28/22 11:36
Total/NA	Analysis	Ra226_Ra228		1	597082	CAH	EET SL	01/16/23 12:15

Client Sample ID: MW-U2-20221206

Lab Sample ID: 400-230176-2

Date Collected: 12/06/22 11:47

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593448	DJP	EET SL	12/13/22 11:06
Total/NA	Analysis	9315		1	596520	FLC	EET SL	01/11/23 09:40
Total/NA	Prep	PrecSep_0			593456	DJP	EET SL	12/13/22 11:41
Total/NA	Analysis	9320		1	594940	FLC	EET SL	12/28/22 11:36
Total/NA	Analysis	Ra226_Ra228		1	597082	CAH	EET SL	01/16/23 12:15

Client Sample ID: DUP-3-20221205

Lab Sample ID: 400-230176-3

Date Collected: 12/05/22 12:00

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593448	DJP	EET SL	12/13/22 11:06
Total/NA	Analysis	9315		1	596520	FLC	EET SL	01/11/23 09:40
Total/NA	Prep	PrecSep_0			593456	DJP	EET SL	12/13/22 11:41
Total/NA	Analysis	9320		1	594940	FLC	EET SL	12/28/22 11:36
Total/NA	Analysis	Ra226_Ra228		1	597082	CAH	EET SL	01/16/23 12:15

Laboratory References:

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

QC Association Summary

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

Job ID: 400-230176-2

Rad

Prep Batch: 593448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	PrecSep-21	
400-230176-2	MW-U2-20221206	Total/NA	Water	PrecSep-21	
400-230176-3	DUP-3-20221205	Total/NA	Water	PrecSep-21	
MB 160-593448/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-593448/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-177702-M-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-177702-N-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 593456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230176-1	MW-U1-20221205	Total/NA	Water	PrecSep_0	
400-230176-2	MW-U2-20221206	Total/NA	Water	PrecSep_0	
400-230176-3	DUP-3-20221205	Total/NA	Water	PrecSep_0	
MB 160-593456/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-593456/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-177702-M-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-177702-N-1-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-593448/1-A
Matrix: Water
Analysis Batch: 596525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593448

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01396	U	0.0499	0.0499	1.00	0.0957	pCi/L	12/13/22 11:06	01/11/23 09:36	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:36*	*1*

Lab Sample ID: LCS 160-593448/2-A
Matrix: Water
Analysis Batch: 596525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593448

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.67		1.20	1.00	0.135	pCi/L	103	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.4*		*40 - 110*

Lab Sample ID: 240-177702-M-1-B MSD
Matrix: Water
Analysis Batch: 596520

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 593448

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	1.63		11.4	12.26		1.24	1.00	0.108	pCi/L	93	60 - 140	0.14	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*

Lab Sample ID: 240-177702-N-1-B MS
Matrix: Water
Analysis Batch: 596520

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 593448

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	1.63		11.4	12.62		1.26	1.00	0.0999	pCi/L	96	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*95.6*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-593456/1-A
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593456

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.396		0.423	0.442	1.00	0.480	pCi/L	12/13/22 11:41	12/28/22 11:34	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110	12/13/22 11:41	12/28/22 11:34	1
Y Carrier	83.0		40 - 110	12/13/22 11:41	12/28/22 11:34	1

Lab Sample ID: LCS 160-593456/2-A
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593456

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.32	10.02		1.31	1.00	0.411	pCi/L	120	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.4		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: 240-177702-M-1-C MSD
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 593456

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	3.77		8.36	12.23		1.50	1.00	0.417	pCi/L	101	60 - 140	0.03	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 240-177702-N-1-C MS
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 593456

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	3.77		8.39	12.32		1.54	1.00	0.460	pCi/L	102	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	95.6		40 - 110
Y Carrier	80.4		40 - 110

Eurofins Pensacola
3355 McLem ve
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

eurofins ronment Testing rica

1/17/2023

Client Information	Sampler: Imgenur Tepecik	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

400-230176 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-U1-20221205	12/05/22	1332	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.66
MW-U2-20221206	12/06/22	1147	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.64
DUP-3-20221205	12/05/22	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Imgenur Tepecik GEO	12/07/22 1700	GEO	FEDEX	12/07/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/8/22 1355	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7 IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230176-2

Login Number: 230176
List Number: 1
Creator: Roberts, Alexis J

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.	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	0.9°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230176-2

Login Number: 230176
List Number: 2
Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis
List Creation: 12/12/22 02:09 PM

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

Accreditation/Certification Summary

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

Job ID: 400-230176-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22 *
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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

400-230178-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

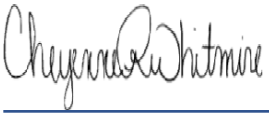
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-230178-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-230178-1

Receipt
The samples were received on 12/8/2022 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

Metals
Method 6020: The method blank for preparation batch 400-604669 and analytical batch 400-604778 contained Chromium and Selenium above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The continuing calibration blank (CCB) for analytical batch 400-604778 contained Chromium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-604992 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 7470A: The method blank for preparation batch 400-604281 and analytical batch 400-605404 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7470A: The method blank for preparation batch 400-604280 and analytical batch 400-605577 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-604238 was outside control limits. Sample non-homogeneity is suspected.

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

Detection Summary

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

Job ID: 400-230178-1

Client Sample ID: MW-D7-20221206 — Lab Sample ID: 400-230178-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.087		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.037	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	65		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0012	J B ^2	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0012	J B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	270		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.092	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.7	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.61				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D8-20221206 — Lab Sample ID: 400-230178-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.045	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	79		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0018	J B ^2	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.00098	J B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00022	B	0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.072	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	19		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.62				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9-20221206 — Lab Sample ID: 400-230178-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.0046	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	57		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0014	J B ^2	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.00084	J B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00022	B	0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.8	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.2	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.44				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-230178-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-230178-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-230178-1	MW-D7-20221206	Water	12/06/22 16:10	12/08/22 13:55
400-230178-2	MW-D8-20221206	Water	12/06/22 14:12	12/08/22 13:55
400-230178-3	MW-D9-20221206	Water	12/06/22 11:05	12/08/22 13:55

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

Job ID: 400-230178-1

Client Sample ID: MW-D7-20221206

Date Collected: 12/06/22 16:10
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 22:41	5
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 16:34	5
Barium	**0.087**		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 22:41	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 22:41	5
Boron	**0.037**	**J B**	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 22:41	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 16:34	5
Calcium	**65**		0.25	0.13	mg/L		12/13/22 12:43	12/14/22 16:34	5
Chromium	**0.0012**	**J B ^2**	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 22:41	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 22:41	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 22:41	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 22:41	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 22:41	5
Selenium	**0.0012**	**J B**	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 22:41	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 22:41	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		12/12/22 09:00	12/19/22 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**270**		5.0	5.0	mg/L			12/09/22 12:30	1
Chloride (SM 4500 Cl- E)	**3.5**		2.0	1.4	mg/L			12/19/22 00:12	1
Fluoride (SM 4500 F C)	**0.092**	**J**	0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**3.7**	**J**	5.0	1.4	mg/L			12/18/22 23:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.61**				SU			12/06/22 15:10	1

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

Job ID: 400-230178-1

Client Sample ID: MW-D8-20221206

Date Collected: 12/06/22 14:12
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 22:44	5
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 16:40	5
Barium	**0.055**		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 22:44	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 22:44	5
Boron	**0.045**	**J B**	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 22:44	5
Cadmium	ND	^3+	0.0010	0.00065	mg/L		12/13/22 12:43	12/13/22 22:44	5
Calcium	**79**		0.25	0.13	mg/L		12/13/22 12:43	12/14/22 16:40	5
Chromium	**0.0018**	**J B ^2**	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 22:44	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 22:44	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 22:44	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 22:44	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 22:44	5
Selenium	**0.00098**	**J B**	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 22:44	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 22:44	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00022**	**B**	0.00020	0.00015	mg/L		12/12/22 09:30	12/16/22 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			12/09/22 12:30	1
Chloride (SM 4500 Cl- E)	**5.8**		2.0	1.4	mg/L			12/19/22 00:13	1
Fluoride (SM 4500 F C)	**0.072**	**J**	0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**19**		5.0	1.4	mg/L			12/18/22 23:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.62**				SU			12/06/22 13:12	1

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

Job ID: 400-230178-1

Client Sample ID: MW-D9-20221206

Date Collected: 12/06/22 11:05
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 22:48	5
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 16:46	5
Barium	**0.041**		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 22:48	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 22:48	5
Boron	**0.0046**	**J B**	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 22:48	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 16:46	5
Calcium	**57**		0.25	0.13	mg/L		12/13/22 12:43	12/14/22 16:46	5
Chromium	**0.0014**	**J B ^2**	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 22:48	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 22:48	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 22:48	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 22:48	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 22:48	5
Selenium	**0.00084**	**J B**	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 22:48	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 22:48	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00022**	**B**	0.00020	0.00015	mg/L		12/12/22 09:30	12/16/22 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		5.0	5.0	mg/L			12/09/22 12:30	1
Chloride (SM 4500 Cl- E)	**1.8**	**J**	2.0	1.4	mg/L			12/19/22 00:13	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**2.2**	**J**	5.0	1.4	mg/L			12/18/22 23:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.44**				SU			12/06/22 10:05	1

Definitions/Glossary

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

Job ID: 400-230178-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+	Reporting Limit Check Standard 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.
B	Compound was found in the blank and sample.
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
F3	Duplicate RPD exceeds the control limit
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

Job ID: 400-230178-1

Client Sample ID: MW-D7-20221206

Lab Sample ID: 400-230178-1

Date Collected: 12/06/22 16:10

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604992	NTH	EET PEN	12/14/22 16:34
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604778	NTH	EET PEN	12/13/22 22:41
Total/NA	Prep	7470A			604280	NET	EET PEN	12/12/22 09:00 - 12/12/22 13:19 [1]
Total/NA	Analysis	7470A		1	605577	BAW	EET PEN	12/19/22 13:48
Total/NA	Analysis	SM 2540C		1	604238	VB	EET PEN	12/09/22 12:30
Total/NA	Analysis	SM 4500 Cl- E		1	605377	DN1	EET PEN	12/19/22 00:12
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33
Total/NA	Analysis	SM 4500 SO4 E		1	605376	DN1	EET PEN	12/18/22 23:20
Total/NA	Analysis	Field Sampling		1	604168	S1K	EET PEN	12/06/22 15:10

Client Sample ID: MW-D8-20221206

Lab Sample ID: 400-230178-2

Date Collected: 12/06/22 14:12

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604992	NTH	EET PEN	12/14/22 16:40
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604778	NTH	EET PEN	12/13/22 22:44
Total/NA	Prep	7470A			604281	NET	EET PEN	12/12/22 09:30 - 12/12/22 13:19 [1]
Total/NA	Analysis	7470A		1	605404	BAW	EET PEN	12/16/22 17:20
Total/NA	Analysis	SM 2540C		1	604238	VB	EET PEN	12/09/22 12:30
Total/NA	Analysis	SM 4500 Cl- E		1	605377	DN1	EET PEN	12/19/22 00:13
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33
Total/NA	Analysis	SM 4500 SO4 E		1	605376	DN1	EET PEN	12/18/22 23:21
Total/NA	Analysis	Field Sampling		1	604168	S1K	EET PEN	12/06/22 13:12

Client Sample ID: MW-D9-20221206

Lab Sample ID: 400-230178-3

Date Collected: 12/06/22 11:05

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604992	NTH	EET PEN	12/14/22 16:46
Total Recoverable	Prep	3005A			604669	KWN	EET PEN	12/13/22 12:43 - 12/13/22 15:35 [1]
Total Recoverable	Analysis	6020		5	604778	NTH	EET PEN	12/13/22 22:48
Total/NA	Prep	7470A			604281	NET	EET PEN	12/12/22 09:30 - 12/12/22 13:19 [1]
Total/NA	Analysis	7470A		1	605404	BAW	EET PEN	12/16/22 17:21
Total/NA	Analysis	SM 2540C		1	604238	VB	EET PEN	12/09/22 12:30
Total/NA	Analysis	SM 4500 Cl- E		1	605377	DN1	EET PEN	12/19/22 00:13
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33

Lab Chronicle

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

Job ID: 400-230178-1

Client Sample ID: MW-D9-20221206

Date Collected: 12/06/22 11:05
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-3

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	605376	DN1	EET PEN	12/18/22 23:21
Total/NA	Analysis	Field Sampling		1	604168	S1K	EET PEN	12/06/22 10:05

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 604280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	7470A	
MB 400-604280/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-604280/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-230103-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 604281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-2	MW-D8-20221206	Total/NA	Water	7470A	
400-230178-3	MW-D9-20221206	Total/NA	Water	7470A	
MB 400-604281/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-604281/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-230178-3 MS	MW-D9-20221206	Total/NA	Water	7470A	
400-230178-3 MSD	MW-D9-20221206	Total/NA	Water	7470A	

Prep Batch: 604669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total Recoverable	Water	3005A	
400-230178-2	MW-D8-20221206	Total Recoverable	Water	3005A	
400-230178-3	MW-D9-20221206	Total Recoverable	Water	3005A	
MB 400-604669/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-604669/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-230004-G-6-A MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-230004-G-6-B MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 604778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total Recoverable	Water	6020	604669
400-230178-2	MW-D8-20221206	Total Recoverable	Water	6020	604669
400-230178-3	MW-D9-20221206	Total Recoverable	Water	6020	604669
MB 400-604669/1-A ^5	Method Blank	Total Recoverable	Water	6020	604669
LCS 400-604669/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	604669
400-230004-G-6-A MS ^5	Matrix Spike	Total Recoverable	Water	6020	604669
400-230004-G-6-B MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	604669

Analysis Batch: 604992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total Recoverable	Water	6020	604669
400-230178-2	MW-D8-20221206	Total Recoverable	Water	6020	604669
400-230178-3	MW-D9-20221206	Total Recoverable	Water	6020	604669
MB 400-604669/1-A ^5	Method Blank	Total Recoverable	Water	6020	604669
LCS 400-604669/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	604669

Analysis Batch: 605404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-2	MW-D8-20221206	Total/NA	Water	7470A	604281
400-230178-3	MW-D9-20221206	Total/NA	Water	7470A	604281
MB 400-604281/14-A	Method Blank	Total/NA	Water	7470A	604281
LCS 400-604281/15-A	Lab Control Sample	Total/NA	Water	7470A	604281
400-230178-3 MS	MW-D9-20221206	Total/NA	Water	7470A	604281
400-230178-3 MSD	MW-D9-20221206	Total/NA	Water	7470A	604281

Metals

Analysis Batch: 605577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	7470A	604280
MB 400-604280/14-A	Method Blank	Total/NA	Water	7470A	604280
LCS 400-604280/15-A	Lab Control Sample	Total/NA	Water	7470A	604280
400-230103-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	604280

General Chemistry

Analysis Batch: 604238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	SM 2540C	
400-230178-2	MW-D8-20221206	Total/NA	Water	SM 2540C	
400-230178-3	MW-D9-20221206	Total/NA	Water	SM 2540C	
MB 400-604238/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-604238/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-230176-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 605044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	SM 4500 F C	
400-230178-2	MW-D8-20221206	Total/NA	Water	SM 4500 F C	
400-230178-3	MW-D9-20221206	Total/NA	Water	SM 4500 F C	
MB 400-605044/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-605044/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-605044/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-230176-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-230176-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-230493-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 605376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	SM 4500 SO4 E	
400-230178-2	MW-D8-20221206	Total/NA	Water	SM 4500 SO4 E	
400-230178-3	MW-D9-20221206	Total/NA	Water	SM 4500 SO4 E	
MB 400-605376/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-605376/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-605376/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-230176-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-230176-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 605377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	SM 4500 Cl- E	
400-230178-2	MW-D8-20221206	Total/NA	Water	SM 4500 Cl- E	
400-230178-3	MW-D9-20221206	Total/NA	Water	SM 4500 Cl- E	
MB 400-605377/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-605377/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-605377/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-230012-G-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-230012-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

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

Job ID: 400-230178-1

Field Service / Mobile Lab

Analysis Batch: 604168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	Field Sampling	
400-230178-2	MW-D8-20221206	Total/NA	Water	Field Sampling	
400-230178-3	MW-D9-20221206	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-604669/1-A ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/13/22 12:43	12/13/22 21:13	5
Barium	ND		0.0025	0.00070	mg/L		12/13/22 12:43	12/13/22 21:13	5
Beryllium	ND		0.0020	0.00092	mg/L		12/13/22 12:43	12/13/22 21:13	5
Boron	0.00208	J	0.050	0.0012	mg/L		12/13/22 12:43	12/13/22 21:13	5
Calcium	ND		0.25	0.13	mg/L		12/13/22 12:43	12/13/22 21:13	5
Chromium	0.00129	J	0.0025	0.0010	mg/L		12/13/22 12:43	12/13/22 21:13	5
Cobalt	ND		0.0025	0.00056	mg/L		12/13/22 12:43	12/13/22 21:13	5
Lead	ND		0.0013	0.00081	mg/L		12/13/22 12:43	12/13/22 21:13	5
Lithium	ND		0.0025	0.0049	mg/L		12/13/22 12:43	12/13/22 21:13	5
Molybdenum	ND		0.010	0.0013	mg/L		12/13/22 12:43	12/13/22 21:13	5
Selenium	0.00118	J	0.0013	0.00082	mg/L		12/13/22 12:43	12/13/22 21:13	5
Thallium	ND		0.00050	0.00046	mg/L		12/13/22 12:43	12/13/22 21:13	5

Lab Sample ID: MB 400-604669/1-A ^5
Matrix: Water
Analysis Batch: 604992

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0013	0.0012	mg/L		12/13/22 12:43	12/14/22 15:50	5
Cadmium	ND		0.0010	0.00065	mg/L		12/13/22 12:43	12/14/22 15:50	5

Lab Sample ID: LCS 400-604669/2-A ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0532		mg/L		106	80 - 120
Barium	0.0500	0.0536		mg/L		107	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Boron	0.100	0.100		mg/L		100	80 - 120
Calcium	5.00	5.41		mg/L		108	80 - 120
Chromium	0.0500	0.0535		mg/L		107	80 - 120
Cobalt	0.0500	0.0518		mg/L		104	80 - 120
Lead	0.0500	0.0512		mg/L		102	80 - 120
Lithium	0.0500	0.0499		mg/L		100	80 - 120
Molybdenum	0.0500	0.0508		mg/L		102	80 - 120
Selenium	0.0500	0.0514		mg/L		103	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: LCS 400-604669/2-A ^5
Matrix: Water
Analysis Batch: 604992

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0512		mg/L		102	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120

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

Lab Sample ID: 400-230004-G-6-A MS ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0488		mg/L		98	75 - 125
Barium	0.34		0.0500	0.424	4	mg/L		169	75 - 125
Beryllium	ND		0.0500	0.0520		mg/L		104	75 - 125
Boron	0.091	B	0.100	0.188		mg/L		97	75 - 125
Chromium	0.0039	B ^2	0.0500	0.0592		mg/L		111	75 - 125
Cobalt	0.0053		0.0500	0.0566		mg/L		103	75 - 125
Lead	0.0014		0.0500	0.0541		mg/L		105	75 - 125
Lithium	ND		0.0500	0.0525		mg/L		105	75 - 125
Molybdenum	0.0015	J	0.0500	0.0506		mg/L		98	75 - 125
Selenium	0.0013	B	0.0500	0.0489		mg/L		95	75 - 125
Thallium	ND		0.0100	0.0104		mg/L		104	75 - 125

Lab Sample ID: 400-230004-G-6-B MSD ^5
Matrix: Water
Analysis Batch: 604778

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 604669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0486		mg/L		97	75 - 125	0	20
Barium	0.34		0.0500	0.422	4	mg/L		164	75 - 125	1	20
Beryllium	ND		0.0500	0.0517		mg/L		103	75 - 125	1	20
Boron	0.091	B	0.100	0.192		mg/L		101	75 - 125	2	20
Chromium	0.0039	B ^2	0.0500	0.0584		mg/L		109	75 - 125	1	20
Cobalt	0.0053		0.0500	0.0564		mg/L		102	75 - 125	0	20
Lead	0.0014		0.0500	0.0539		mg/L		105	75 - 125	0	20
Lithium	ND		0.0500	0.0540		mg/L		108	75 - 125	3	20
Molybdenum	0.0015	J	0.0500	0.0501		mg/L		97	75 - 125	1	20
Selenium	0.0013	B	0.0500	0.0490		mg/L		95	75 - 125	0	20
Thallium	ND		0.0100	0.0105		mg/L		105	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-604280/14-A
Matrix: Water
Analysis Batch: 605577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000180	J	0.00020	0.00015	mg/L		12/12/22 09:00	12/19/22 12:47	1

Lab Sample ID: LCS 400-604280/15-A
Matrix: Water
Analysis Batch: 605577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00111		mg/L		110	80 - 120

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

Lab Sample ID: 400-230103-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605577 — **Prep Batch: 604280**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00017	J B F1	0.00201	0.00267	F1	mg/L		124	80 - 120	3	20

Lab Sample ID: MB 400-604281/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605404 — **Prep Batch: 604281**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000150	J	0.00020	0.00015	mg/L		12/12/22 09:30	12/16/22 17:18	1

Lab Sample ID: LCS 400-604281/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605404 — **Prep Batch: 604281**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00115		mg/L		114	80 - 120

Lab Sample ID: 400-230178-3 MS — **Client Sample ID: MW-D9-20221206**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605404 — **Prep Batch: 604281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00022	B	0.00201	0.00216		mg/L		96	80 - 120

Lab Sample ID: 400-230178-3 MSD — **Client Sample ID: MW-D9-20221206**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605404 — **Prep Batch: 604281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00022	B	0.00201	0.00213		mg/L		95	80 - 120	1	20

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

Lab Sample ID: MB 400-604238/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 604238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			12/09/22 12:30	1

Lab Sample ID: LCS 400-604238/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 604238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	330		mg/L		113	78 - 122

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

Lab Sample ID: 400-230176-A-1 DU
Matrix: Water
Analysis Batch: 604238

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	170		146	F3	mg/L		13	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-605377/13
Matrix: Water
Analysis Batch: 605377

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			12/18/22 23:43	1

Lab Sample ID: LCS 400-605377/14
Matrix: Water
Analysis Batch: 605377

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	49.3		mg/L		99	90 - 110

Lab Sample ID: MRL 400-605377/15
Matrix: Water
Analysis Batch: 605377

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	1.74	J	mg/L		87	50 - 150

Lab Sample ID: 400-230012-G-1 MS
Matrix: Water
Analysis Batch: 605377

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	3.9		10.0	12.1		mg/L		82	73 - 120

Lab Sample ID: 400-230012-G-1 MSD
Matrix: Water
Analysis Batch: 605377

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	3.9		10.0	12.7		mg/L		88	73 - 120	5	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-605044/10
Matrix: Water
Analysis Batch: 605044

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	0.070	mg/L			12/15/22 13:33	1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-605044/13
Matrix: Water
Analysis Batch: 605044

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	4.99		mg/L		100	90 - 110

Lab Sample ID: MRL 400-605044/12
Matrix: Water
Analysis Batch: 605044

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	0.104		mg/L		104	

Lab Sample ID: 400-230176-A-1 MS
Matrix: Water
Analysis Batch: 605044

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	0.099	J	0.100	0.177		mg/L		78	75 - 125

Lab Sample ID: 400-230176-A-1 MSD
Matrix: Water
Analysis Batch: 605044

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	0.099	J	0.100	0.185		mg/L		85	75 - 125	4	4

Lab Sample ID: 400-230493-B-1 DU
Matrix: Water
Analysis Batch: 605044

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-605376/12
Matrix: Water
Analysis Batch: 605376

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			12/18/22 23:07	1

Lab Sample ID: LCS 400-605376/13
Matrix: Water
Analysis Batch: 605376

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	15.0		mg/L		100	90 - 110

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

Lab Sample ID: MRL 400-605376/14
Matrix: Water
Analysis Batch: 605376

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	4.13	J	mg/L		83	50 - 150		

Lab Sample ID: 400-230176-A-1 MS
Matrix: Water
Analysis Batch: 605376

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	2.2	J	10.0	11.7		mg/L		95	77 - 128		

Lab Sample ID: 400-230176-A-1 MSD
Matrix: Water
Analysis Batch: 605376

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	2.2	J	10.0	11.9		mg/L		97	77 - 128	2	5

Eurofins Pensacola
3355 McLem[illegible] ve
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

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12/29/2022

Client Information	Sampler: Imgenur Tepcik	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

400-230178 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D7-20221206	12/06/22	1610	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.61
MW-D8-20221206	12/06/22	1412	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.62
MW-D9-20221206	12/06/22	1105	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.44
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

IT IT IT

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Imgenur Tepcik GEO	12/07/22 1700	GEO	FEDEX	12/07/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12.8.22 13:55	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230178-1

Login Number: 230178
List Number: 1
Creator: Roberts, Alexis J

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.	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 <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

Job ID: 400-230178-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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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

400-230178-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

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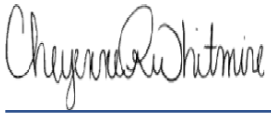
Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-230178-2

Job ID: 400-230178-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-230178-2

Receipt

The samples were received on 12/8/2022 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

RAD

Method 9315: Radium-226 batch 593448. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D7-20221206 (400-230178-1), MW-D8-20221206 (400-230178-2), MW-D9-20221206 (400-230178-3), (LCS 160-593448/2-A), (MB 160-593448/1-A), (240-177702-J-1-A), (240-177702-N-1-B MS) and (240-177702-M-1-B MSD)

Method 9320: Radium-228 batch 593456. The method blank (MB) activity above the RL. The following associated samples are below the reporting limit for the contaminant, therefore, re-analysis is not required. The data have been reported. (MB 160-593456/1-A)

Method 9320: Radium-228 batch 593456. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D7-20221206 (400-230178-1), MW-D8-20221206 (400-230178-2), MW-D9-20221206 (400-230178-3), (LCS 160-593456/2-A), (MB 160-593456/1-A), (240-177702-J-1-B), (240-177702-N-1-C MS) and (240-177702-M-1-C MSD)

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

Method Summary

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

Job ID: 400-230178-2

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: 400-230178-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-230178-1	MW-D7-20221206	Water	12/06/22 16:10	12/08/22 13:55
400-230178-2	MW-D8-20221206	Water	12/06/22 14:12	12/08/22 13:55
400-230178-3	MW-D9-20221206	Water	12/06/22 11:05	12/08/22 13:55

Client Sample Results

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

Job ID: 400-230178-2

Client Sample ID: MW-D7-20221206

Date Collected: 12/06/22 16:10
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195		0.0914	0.0931	1.00	0.111	pCi/L	12/13/22 11:06	01/11/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:40*	*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	0.566		0.347	0.351	1.00	0.500	pCi/L	12/13/22 11:41	12/28/22 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*1*
Y Carrier	*80.4*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:36*	*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	0.761		0.359	0.363	5.00	0.500	pCi/L		01/16/23 12:15	1

Client Sample ID: MW-D8-20221206

Date Collected: 12/06/22 14:12
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0683	U	0.0670	0.0672	1.00	0.105	pCi/L	12/13/22 11:06	01/11/23 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:41*	*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	0.441	U	0.347	0.349	1.00	0.538	pCi/L	12/13/22 11:41	12/28/22 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:37*	*1*
Y Carrier	*81.9*		*40 - 110*	*12/13/22 11:41*	*12/28/22 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	0.510	U	0.353	0.355	5.00	0.538	pCi/L		01/16/23 12:15	1

Client Sample ID: MW-D9-20221206

Date Collected: 12/06/22 11:05
Date Received: 12/08/22 13:55

Lab Sample ID: 400-230178-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.194**		0.0867	0.0884	1.00	0.0987	pCi/L	12/13/22 11:06	01/11/23 13:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*40 - 110*	*12/13/22 11:06*	*01/11/23 13:53*	*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	0.233	U	0.314	0.314	1.00	0.525	pCi/L	12/13/22 11:41	12/28/22 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*40 - 110*	*12/13/22 11:41*	*12/28/22 11:37*	*1*
Y Carrier	*82.2*		*40 - 110*	*12/13/22 11:41*	*12/28/22 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	0.427	U	0.326	0.326	5.00	0.525	pCi/L		01/16/23 12:15	1

Definitions/Glossary

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

Job ID: 400-230178-2

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

Job ID: 400-230178-2

Client Sample ID: MW-D7-20221206

Lab Sample ID: 400-230178-1

Date Collected: 12/06/22 16:10

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593448	DJP	EET SL	12/13/22 11:06
Total/NA	Analysis	9315		1	596520	FLC	EET SL	01/11/23 09:40
Total/NA	Prep	PrecSep_0			593456	DJP	EET SL	12/13/22 11:41
Total/NA	Analysis	9320		1	594940	FLC	EET SL	12/28/22 11:36
Total/NA	Analysis	Ra226_Ra228		1	597082	CAH	EET SL	01/16/23 12:15

Client Sample ID: MW-D8-20221206

Lab Sample ID: 400-230178-2

Date Collected: 12/06/22 14:12

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593448	DJP	EET SL	12/13/22 11:06
Total/NA	Analysis	9315		1	596520	FLC	EET SL	01/11/23 09:41
Total/NA	Prep	PrecSep_0			593456	DJP	EET SL	12/13/22 11:41
Total/NA	Analysis	9320		1	594940	FLC	EET SL	12/28/22 11:37
Total/NA	Analysis	Ra226_Ra228		1	597082	CAH	EET SL	01/16/23 12:15

Client Sample ID: MW-D9-20221206

Lab Sample ID: 400-230178-3

Date Collected: 12/06/22 11:05

Matrix: Water

Date Received: 12/08/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593448	DJP	EET SL	12/13/22 11:06
Total/NA	Analysis	9315		1	596520	FLC	EET SL	01/11/23 13:53
Total/NA	Prep	PrecSep_0			593456	DJP	EET SL	12/13/22 11:41
Total/NA	Analysis	9320		1	594940	FLC	EET SL	12/28/22 11:37
Total/NA	Analysis	Ra226_Ra228		1	597082	CAH	EET SL	01/16/23 12:15

Laboratory References:

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

QC Association Summary

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

Job ID: 400-230178-2

Rad

Prep Batch: 593448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	PrecSep-21	
400-230178-2	MW-D8-20221206	Total/NA	Water	PrecSep-21	
400-230178-3	MW-D9-20221206	Total/NA	Water	PrecSep-21	
MB 160-593448/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-593448/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-177702-M-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-177702-N-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 593456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230178-1	MW-D7-20221206	Total/NA	Water	PrecSep_0	
400-230178-2	MW-D8-20221206	Total/NA	Water	PrecSep_0	
400-230178-3	MW-D9-20221206	Total/NA	Water	PrecSep_0	
MB 160-593456/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-593456/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-177702-M-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-177702-N-1-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-593448/1-A
Matrix: Water
Analysis Batch: 596525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593448

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01396	U	0.0499	0.0499	1.00	0.0957	pCi/L	12/13/22 11:06	01/11/23 09:36	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*12/13/22 11:06*	*01/11/23 09:36*	*1*

Lab Sample ID: LCS 160-593448/2-A
Matrix: Water
Analysis Batch: 596525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593448

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.67		1.20	1.00	0.135	pCi/L	103	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.4*		*40 - 110*

Lab Sample ID: 240-177702-M-1-B MSD
Matrix: Water
Analysis Batch: 596520

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 593448

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	1.63		11.4	12.26		1.24	1.00	0.108	pCi/L	93	60 - 140	0.14	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*

Lab Sample ID: 240-177702-N-1-B MS
Matrix: Water
Analysis Batch: 596520

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 593448

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	1.63		11.4	12.62		1.26	1.00	0.0999	pCi/L	96	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*95.6*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-593456/1-A
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593456

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.396		0.423	0.442	1.00	0.480	pCi/L	12/13/22 11:41	12/28/22 11:34	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110	12/13/22 11:41	12/28/22 11:34	1
Y Carrier	83.0		40 - 110	12/13/22 11:41	12/28/22 11:34	1

Lab Sample ID: LCS 160-593456/2-A
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593456

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.32	10.02		1.31	1.00	0.411	pCi/L	120	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.4		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: 240-177702-M-1-C MSD
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 593456

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	3.77		8.36	12.23		1.50	1.00	0.417	pCi/L	101	60 - 140	0.03	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 240-177702-N-1-C MS
Matrix: Water
Analysis Batch: 594940

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 593456

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	3.77		8.39	12.32		1.54	1.00	0.460	pCi/L	102	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	95.6		40 - 110
Y Carrier	80.4		40 - 110

Eurofins Pensacola
3355 McLem[illegible] ve
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

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eurofins [illegible]ronment Testing [illegible]erica

1/17/2023

Client Information	Sampler: Imgenur Tepcik	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

400-230178 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D7-20221206	12/06/22	1610	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.61
MW-D8-20221206	12/06/22	1412	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.62
MW-D9-20221206	12/06/22	1105	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.44
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

IT IT IT

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Imgenur Tepcik GEO	12/07/22 1700	GEO	FEDEX	12/07/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12.8.22 13:55	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230178-2

Login Number: 230178
List Number: 1
Creator: Roberts, Alexis J

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.	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230178-2

Login Number: 230178
List Number: 2
Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis
List Creation: 12/12/22 02:07 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 400-230178-2
Project/Site: Crisp County Power

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22 *
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/29/2022 8:53:01 PM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-230210-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

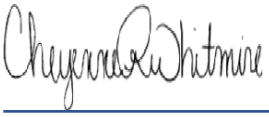
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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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12/29/2022 8:53:01 PM

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-230210-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-230210-1

Receipt
The samples were received on 12/9/2022 9:21 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 2.9º C.

Metals
Method 6020: The ICV for batch 400-605746 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

Method 6020: The CRI associated with batch 400-605746 recovered above the upper control limit for Boron. The samples associated with this CRI were non-detect for the affected analytes; therefore, the data have been reported.

Method 6020: The CRI associated with batch 400-605746 recovered above the upper control limit for Boron . The LCS, MS, anc MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. (CRI 400-605746/21).

Method 6020: The method blank for preparation batch 400-605310 and analytical batch 400-605746 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The CRI associated with batch 400-606126 recovered above the upper control limit for Selenium. The samples associated with this CRI were non-detect for the affected analytes; therefore, the data have been reported.

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

Detection Summary

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

Job ID: 400-230210-1

Client Sample ID: MW-D4-20221205 — Lab Sample ID: 400-230210-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.012	J ^3+ B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	210		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	0.15		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D5-20221205 — Lab Sample ID: 400-230210-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.027		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.016	J ^3+ B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	44		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	7.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D6-20221206 — Lab Sample ID: 400-230210-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0093		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.016	J ^3+ B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	36		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0010	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		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	0.17		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.71				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-230210-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-230210-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-230210-1	MW-D4-20221205	Water	12/05/22 16:00	12/09/22 09:21
400-230210-2	MW-D5-20221205	Water	12/05/22 15:33	12/09/22 09:21
400-230210-3	MW-D6-20221206	Water	12/06/22 14:17	12/09/22 09:21

Client Sample Results

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

Job ID: 400-230210-1

Client Sample ID: MW-D4-20221205

Date Collected: 12/05/22 16:00
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/17/22 12:08	12/20/22 17:13	5
Arsenic	ND		0.0013	0.0012	mg/L		12/17/22 12:08	12/20/22 17:13	5
Barium	**0.029**		0.0025	0.00070	mg/L		12/17/22 12:08	12/20/22 17:13	5
Beryllium	ND		0.0020	0.00092	mg/L		12/17/22 12:08	12/20/22 17:13	5
Boron	**0.012**	**J ^3+ B**	0.050	0.0012	mg/L		12/17/22 12:08	12/20/22 17:13	5
Cadmium	ND		0.0010	0.00065	mg/L		12/17/22 12:08	12/20/22 17:13	5
Calcium	**45**		0.25	0.13	mg/L		12/17/22 12:08	12/20/22 17:13	5
Chromium	ND		0.0025	0.0010	mg/L		12/17/22 12:08	12/20/22 17:13	5
Cobalt	ND		0.0025	0.00056	mg/L		12/17/22 12:08	12/20/22 17:13	5
Lead	ND		0.0013	0.00081	mg/L		12/17/22 12:08	12/20/22 17:13	5
Lithium	ND		0.0025	0.0049	mg/L		12/17/22 12:08	12/20/22 17:13	5
Molybdenum	ND		0.010	0.0013	mg/L		12/17/22 12:08	12/20/22 17:13	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		12/17/22 12:08	12/22/22 15:46	5
Thallium	ND		0.00050	0.00046	mg/L		12/17/22 12:08	12/20/22 17:13	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		12/21/22 10:07	12/21/22 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		5.0	5.0	mg/L			12/12/22 14:05	1
Chloride (SM 4500 Cl- E)	**1.9**	**J**	2.0	1.4	mg/L			12/24/22 22:21	1
Fluoride (SM 4500 F C)	**0.15**		0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**1.5**	**J**	5.0	1.4	mg/L			12/12/22 18:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.35**				SU			12/05/22 15:00	1

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

Job ID: 400-230210-1

Client Sample ID: MW-D5-20221205

Date Collected: 12/05/22 15:33
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/17/22 12:08	12/20/22 17:16	5
Arsenic	ND		0.0013	0.0012	mg/L		12/17/22 12:08	12/20/22 17:16	5
Barium	**0.027**		0.0025	0.00070	mg/L		12/17/22 12:08	12/20/22 17:16	5
Beryllium	ND		0.0020	0.00092	mg/L		12/17/22 12:08	12/20/22 17:16	5
Boron	**0.016**	**J ^3+ B**	0.050	0.0012	mg/L		12/17/22 12:08	12/20/22 17:16	5
Cadmium	ND		0.0010	0.00065	mg/L		12/17/22 12:08	12/20/22 17:16	5
Calcium	**44**		0.25	0.13	mg/L		12/17/22 12:08	12/20/22 17:16	5
Chromium	ND		0.0025	0.0010	mg/L		12/17/22 12:08	12/20/22 17:16	5
Cobalt	ND		0.0025	0.00056	mg/L		12/17/22 12:08	12/20/22 17:16	5
Lead	ND		0.0013	0.00081	mg/L		12/17/22 12:08	12/20/22 17:16	5
Lithium	ND		0.0025	0.0049	mg/L		12/17/22 12:08	12/20/22 17:16	5
Molybdenum	ND		0.010	0.0013	mg/L		12/17/22 12:08	12/20/22 17:16	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		12/17/22 12:08	12/22/22 15:49	5
Thallium	ND		0.00050	0.00046	mg/L		12/17/22 12:08	12/20/22 17:16	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		12/21/22 10:07	12/21/22 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			12/12/22 14:05	1
Chloride (SM 4500 Cl- E)	**7.1**		2.0	1.4	mg/L			12/24/22 22:21	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			12/12/22 18:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.13**				SU			12/05/22 14:33	1

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

Job ID: 400-230210-1

Client Sample ID: MW-D6-20221206

Date Collected: 12/06/22 14:17
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/17/22 12:08	12/20/22 17:32	5
Arsenic	ND		0.0013	0.0012	mg/L		12/17/22 12:08	12/20/22 17:32	5
Barium	**0.0093**		0.0025	0.00070	mg/L		12/17/22 12:08	12/20/22 17:32	5
Beryllium	ND		0.0020	0.00092	mg/L		12/17/22 12:08	12/20/22 17:32	5
Boron	**0.016**	**J ^3+ B**	0.050	0.0012	mg/L		12/17/22 12:08	12/20/22 17:32	5
Cadmium	ND		0.0010	0.00065	mg/L		12/17/22 12:08	12/20/22 17:32	5
Calcium	**36**		0.25	0.13	mg/L		12/17/22 12:08	12/20/22 17:32	5
Chromium	**0.0010**	**J**	0.0025	0.0010	mg/L		12/17/22 12:08	12/20/22 17:32	5
Cobalt	ND		0.0025	0.00056	mg/L		12/17/22 12:08	12/20/22 17:32	5
Lead	ND		0.0013	0.00081	mg/L		12/17/22 12:08	12/20/22 17:32	5
Lithium	ND		0.0025	0.0049	mg/L		12/17/22 12:08	12/20/22 17:32	5
Molybdenum	ND		0.010	0.0013	mg/L		12/17/22 12:08	12/20/22 17:32	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		12/17/22 12:08	12/22/22 15:52	5
Thallium	ND		0.00050	0.00046	mg/L		12/17/22 12:08	12/20/22 17:32	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		12/21/22 10:07	12/21/22 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		5.0	5.0	mg/L			12/13/22 12:08	1
Chloride (SM 4500 Cl- E)	**4.7**		2.0	1.4	mg/L			12/24/22 22:22	1
Fluoride (SM 4500 F C)	**0.17**		0.10	0.070	mg/L			12/15/22 13:33	1
Sulfate (SM 4500 SO4 E)	**1.8**	**J**	5.0	1.4	mg/L			12/12/22 18:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.71**				SU			12/06/22 13:17	1

Definitions/Glossary

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

Job ID: 400-230210-1

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard 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.
B	Compound was found in the blank and sample.
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.
¤	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: 400-230210-1

Client Sample ID: MW-D4-20221205

Lab Sample ID: 400-230210-1

Date Collected: 12/05/22 16:00

Matrix: Water

Date Received: 12/09/22 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			605310	JL	EET PEN	12/17/22 12:08 - 12/17/22 14:51 [1]
Total Recoverable	Analysis	6020		5	605746	NTH	EET PEN	12/20/22 17:13
Total Recoverable	Prep	3005A			605310	JL	EET PEN	12/17/22 12:08 - 12/17/22 14:51 [1]
Total Recoverable	Analysis	6020		5	606126	NTH	EET PEN	12/22/22 15:46
Total/NA	Prep	7470A			605610	CJK	EET PEN	12/21/22 10:07 - 12/21/22 12:54 [1]
Total/NA	Analysis	7470A		1	605971	NET	EET PEN	12/21/22 16:22
Total/NA	Analysis	SM 2540C		1	604524	VB	EET PEN	12/12/22 14:05
Total/NA	Analysis	SM 4500 Cl- E		1	606134	DN1	EET PEN	12/24/22 22:21
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33
Total/NA	Analysis	SM 4500 SO4 E		1	604586	DN1	EET PEN	12/12/22 18:14
Total/NA	Analysis	Field Sampling		1	604590	PP1	EET PEN	12/05/22 15:00

Client Sample ID: MW-D5-20221205

Lab Sample ID: 400-230210-2

Date Collected: 12/05/22 15:33

Matrix: Water

Date Received: 12/09/22 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			605310	JL	EET PEN	12/17/22 12:08 - 12/17/22 14:51 [1]
Total Recoverable	Analysis	6020		5	605746	NTH	EET PEN	12/20/22 17:16
Total Recoverable	Prep	3005A			605310	JL	EET PEN	12/17/22 12:08 - 12/17/22 14:51 [1]
Total Recoverable	Analysis	6020		5	606126	NTH	EET PEN	12/22/22 15:49
Total/NA	Prep	7470A			605610	CJK	EET PEN	12/21/22 10:07 - 12/21/22 12:54 [1]
Total/NA	Analysis	7470A		1	605971	NET	EET PEN	12/21/22 16:23
Total/NA	Analysis	SM 2540C		1	604524	VB	EET PEN	12/12/22 14:05
Total/NA	Analysis	SM 4500 Cl- E		1	606134	DN1	EET PEN	12/24/22 22:21
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33
Total/NA	Analysis	SM 4500 SO4 E		1	604586	DN1	EET PEN	12/12/22 18:15
Total/NA	Analysis	Field Sampling		1	604590	PP1	EET PEN	12/05/22 14:33

Client Sample ID: MW-D6-20221206

Lab Sample ID: 400-230210-3

Date Collected: 12/06/22 14:17

Matrix: Water

Date Received: 12/09/22 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			605310	JL	EET PEN	12/17/22 12:08 - 12/17/22 14:51 [1]
Total Recoverable	Analysis	6020		5	605746	NTH	EET PEN	12/20/22 17:32
Total Recoverable	Prep	3005A			605310	JL	EET PEN	12/17/22 12:08 - 12/17/22 14:51 [1]
Total Recoverable	Analysis	6020		5	606126	NTH	EET PEN	12/22/22 15:52
Total/NA	Prep	7470A			605610	CJK	EET PEN	12/21/22 10:07 - 12/21/22 12:54 [1]
Total/NA	Analysis	7470A		1	605971	NET	EET PEN	12/21/22 16:24
Total/NA	Analysis	SM 2540C		1	604681	VB	EET PEN	12/13/22 12:08
Total/NA	Analysis	SM 4500 Cl- E		1	606134	DN1	EET PEN	12/24/22 22:22
Total/NA	Analysis	SM 4500 F C		1	605044	JP	EET PEN	12/15/22 13:33

Lab Chronicle

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

Job ID: 400-230210-1

Client Sample ID: MW-D6-20221206

Date Collected: 12/06/22 14:17
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-3

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	604586	DN1	EET PEN	12/12/22 18:16
Total/NA	Analysis	Field Sampling		1	604590	PP1	EET PEN	12/06/22 13:17

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Leach Batch: 605218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230625-D-4-C MS ^5	Matrix Spike	Leach	Water	1315	
400-230625-D-4-D MSD ^5	Matrix Spike Duplicate	Leach	Water	1315	

Prep Batch: 605310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total Recoverable	Water	3005A	
400-230210-2	MW-D5-20221205	Total Recoverable	Water	3005A	
400-230210-3	MW-D6-20221206	Total Recoverable	Water	3005A	
MB 400-605310/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-605310/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-230625-D-4-C MS ^5	Matrix Spike	Leach	Water	3005A	605218
400-230625-D-4-D MSD ^5	Matrix Spike Duplicate	Leach	Water	3005A	605218

Prep Batch: 605610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	7470A	
400-230210-2	MW-D5-20221205	Total/NA	Water	7470A	
400-230210-3	MW-D6-20221206	Total/NA	Water	7470A	
MB 400-605610/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-605610/15-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 400-605610/38-A	Lab Control Sample Dup	Total/NA	Water	7470A	
LCSD 400-605610/39-B	Lab Control Sample Dup	Total/NA	Water	7470A	
LCSD 400-605610/40-B	Lab Control Sample Dup	Total/NA	Water	7470A	
400-230447-N-2-B MS	Matrix Spike	Total/NA	Water	7470A	
400-230447-N-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 605746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total Recoverable	Water	6020	605310
400-230210-2	MW-D5-20221205	Total Recoverable	Water	6020	605310
400-230210-3	MW-D6-20221206	Total Recoverable	Water	6020	605310
MB 400-605310/1-A ^5	Method Blank	Total Recoverable	Water	6020	605310
LCS 400-605310/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	605310
400-230625-D-4-C MS ^5	Matrix Spike	Leach	Water	6020	605310
400-230625-D-4-D MSD ^5	Matrix Spike Duplicate	Leach	Water	6020	605310

Analysis Batch: 605971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	7470A	605610
400-230210-2	MW-D5-20221205	Total/NA	Water	7470A	605610
400-230210-3	MW-D6-20221206	Total/NA	Water	7470A	605610
MB 400-605610/14-A	Method Blank	Total/NA	Water	7470A	605610
LCS 400-605610/15-A	Lab Control Sample	Total/NA	Water	7470A	605610
LCSD 400-605610/38-A	Lab Control Sample Dup	Total/NA	Water	7470A	605610
LCSD 400-605610/39-B	Lab Control Sample Dup	Total/NA	Water	7470A	605610
LCSD 400-605610/40-B	Lab Control Sample Dup	Total/NA	Water	7470A	605610
400-230447-N-2-B MS	Matrix Spike	Total/NA	Water	7470A	605610
400-230447-N-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	605610

Metals

Analysis Batch: 606126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total Recoverable	Water	6020	605310
400-230210-2	MW-D5-20221205	Total Recoverable	Water	6020	605310
400-230210-3	MW-D6-20221206	Total Recoverable	Water	6020	605310
MB 400-605310/1-A ^5	Method Blank	Total Recoverable	Water	6020	605310

General Chemistry

Analysis Batch: 604524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	SM 2540C	
400-230210-2	MW-D5-20221205	Total/NA	Water	SM 2540C	
MB 400-604524/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-604524/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-230109-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 604586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	SM 4500 SO4 E	
400-230210-2	MW-D5-20221205	Total/NA	Water	SM 4500 SO4 E	
400-230210-3	MW-D6-20221206	Total/NA	Water	SM 4500 SO4 E	
MB 400-604586/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-604586/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-604586/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-229969-I-11 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-229969-I-11 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 604681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-3	MW-D6-20221206	Total/NA	Water	SM 2540C	
MB 400-604681/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-604681/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-230215-A-21 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 605044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	SM 4500 F C	
400-230210-2	MW-D5-20221205	Total/NA	Water	SM 4500 F C	
400-230210-3	MW-D6-20221206	Total/NA	Water	SM 4500 F C	
MB 400-605044/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-605044/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-605044/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-230176-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-230176-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-230493-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 606134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	SM 4500 Cl- E	
400-230210-2	MW-D5-20221205	Total/NA	Water	SM 4500 Cl- E	
400-230210-3	MW-D6-20221206	Total/NA	Water	SM 4500 Cl- E	
MB 400-606134/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 606134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-606134/42	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-606134/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-606134/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-230210-3 MS	MW-D6-20221206	Total/NA	Water	SM 4500 Cl- E	
400-230210-3 MSD	MW-D6-20221206	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 604590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	Field Sampling	
400-230210-2	MW-D5-20221205	Total/NA	Water	Field Sampling	
400-230210-3	MW-D6-20221206	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-605310/1-A ^5
Matrix: Water
Analysis Batch: 605746

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 605310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		12/17/22 12:08	12/20/22 16:21	5
Arsenic	ND		0.0013	0.0012	mg/L		12/17/22 12:08	12/20/22 16:21	5
Barium	ND		0.0025	0.00070	mg/L		12/17/22 12:08	12/20/22 16:21	5
Beryllium	ND		0.0020	0.00092	mg/L		12/17/22 12:08	12/20/22 16:21	5
Boron	0.00913	J ^3+	0.050	0.0012	mg/L		12/17/22 12:08	12/20/22 16:21	5
Cadmium	ND		0.0010	0.00065	mg/L		12/17/22 12:08	12/20/22 16:21	5
Calcium	ND		0.25	0.13	mg/L		12/17/22 12:08	12/20/22 16:21	5
Chromium	ND		0.0025	0.0010	mg/L		12/17/22 12:08	12/20/22 16:21	5
Cobalt	ND		0.0025	0.00056	mg/L		12/17/22 12:08	12/20/22 16:21	5
Lead	ND		0.0013	0.00081	mg/L		12/17/22 12:08	12/20/22 16:21	5
Lithium	ND		0.0025	0.0049	mg/L		12/17/22 12:08	12/20/22 16:21	5
Molybdenum	ND		0.010	0.0013	mg/L		12/17/22 12:08	12/20/22 16:21	5
Thallium	ND		0.00050	0.00046	mg/L		12/17/22 12:08	12/20/22 16:21	5

Lab Sample ID: MB 400-605310/1-A ^5
Matrix: Water
Analysis Batch: 606126

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 605310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND	^3+	0.0013	0.00082	mg/L		12/17/22 12:08	12/22/22 14:40	5

Lab Sample ID: LCS 400-605310/2-A ^5
Matrix: Water
Analysis Batch: 605746

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 605310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0543		mg/L		109	80 - 120
Arsenic	0.0500	0.0496		mg/L		99	80 - 120
Barium	0.0500	0.0530		mg/L		106	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Boron	0.100	0.108	^3+	mg/L		108	80 - 120
Cadmium	0.0500	0.0548		mg/L		110	80 - 120
Calcium	5.00	5.12		mg/L		102	80 - 120
Chromium	0.0500	0.0534		mg/L		107	80 - 120
Cobalt	0.0500	0.0531		mg/L		106	80 - 120
Lead	0.0500	0.0508		mg/L		102	80 - 120
Lithium	0.0500	0.0475		mg/L		95	80 - 120
Molybdenum	0.0500	0.0560		mg/L		112	80 - 120
Selenium	0.0500	0.0528		mg/L		106	80 - 120
Thallium	0.0100	0.0101		mg/L		101	80 - 120

Lab Sample ID: 400-230625-D-4-C MS ^5
Matrix: Water
Analysis Batch: 605746

Client Sample ID: Matrix Spike
Prep Type: Leach
Prep Batch: 605310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0561		mg/L		112	75 - 125
Arsenic	0.0090		0.0500	0.0593		mg/L		100	75 - 125
Barium	0.0079		0.0500	0.0581		mg/L		100	75 - 125

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

Lab Sample ID: 400-230625-D-4-C MS ^5
Matrix: Water
Analysis Batch: 605746

Client Sample ID: Matrix Spike
Prep Type: Leach
Prep Batch: 605310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0485		mg/L		97	75 - 125
Cadmium	ND		0.0500	0.0545		mg/L		109	75 - 125
Calcium	20		5.00	25.4	4	mg/L		105	75 - 125
Chromium	ND		0.0500	0.0535		mg/L		107	75 - 125
Cobalt	ND		0.0500	0.0527		mg/L		105	75 - 125
Lead	ND		0.0500	0.0507		mg/L		101	75 - 125
Lithium	0.021		0.0500	0.0702		mg/L		98	75 - 125
Molybdenum	0.012		0.0500	0.0660		mg/L		109	75 - 125
Selenium	0.0072	B ^2	0.0500	0.0632		mg/L		112	75 - 125
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125

Lab Sample ID: 400-230625-D-4-D MSD ^5
Matrix: Water
Analysis Batch: 605746

Client Sample ID: Matrix Spike Duplicate
Prep Type: Leach
Prep Batch: 605310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0563		mg/L		113	75 - 125	0	20
Arsenic	0.0090		0.0500	0.0597		mg/L		101	75 - 125	1	20
Barium	0.0079		0.0500	0.0577		mg/L		99	75 - 125	1	20
Beryllium	ND		0.0500	0.0498		mg/L		100	75 - 125	3	20
Cadmium	ND		0.0500	0.0545		mg/L		109	75 - 125	0	20
Calcium	20		5.00	25.4	4	mg/L		105	75 - 125	0	20
Chromium	ND		0.0500	0.0544		mg/L		109	75 - 125	2	20
Cobalt	ND		0.0500	0.0535		mg/L		107	75 - 125	1	20
Lead	ND		0.0500	0.0504		mg/L		101	75 - 125	1	20
Lithium	0.021		0.0500	0.0717		mg/L		101	75 - 125	2	20
Molybdenum	0.012		0.0500	0.0644		mg/L		106	75 - 125	2	20
Selenium	0.0072	B ^2	0.0500	0.0582		mg/L		102	75 - 125	8	20
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-605610/14-A
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		12/21/22 10:07	12/21/22 15:50	1

Lab Sample ID: LCS 400-605610/15-A
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.000960		mg/L		95	80 - 120

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

Lab Sample ID: LCSD 400-605610/38-A
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 605610

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00101	0.000850		mg/L		84	80 - 120	12	20

Lab Sample ID: LCSD 400-605610/39-B
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 605610

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00101	0.000960		mg/L					

Lab Sample ID: LCSD 400-605610/40-B
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 605610

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00101	0.00100		mg/L					

Lab Sample ID: 400-230447-N-2-B MS
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 605610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00201	0.00193		mg/L		96	80 - 120		

Lab Sample ID: 400-230447-N-2-C MSD
Matrix: Water
Analysis Batch: 605971

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 605610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00199		mg/L		99	80 - 120	3	20

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

Lab Sample ID: MB 400-604524/1
Matrix: Water
Analysis Batch: 604524

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			12/12/22 14:05	1

Lab Sample ID: LCS 400-604524/2
Matrix: Water
Analysis Batch: 604524

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	334		mg/L		114	78 - 122		

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

Lab Sample ID: 400-230109-A-3 DU
Matrix: Water
Analysis Batch: 604524

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	76			80.0		mg/L				5	5

Lab Sample ID: MB 400-604681/1
Matrix: Water
Analysis Batch: 604681

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			12/13/22 12:08	1

Lab Sample ID: LCS 400-604681/2
Matrix: Water
Analysis Batch: 604681

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	356		mg/L		122	78 - 122		

Lab Sample ID: 400-230215-A-21 DU
Matrix: Water
Analysis Batch: 604681

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	2400			2450		mg/L				2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-606134/13
Matrix: Water
Analysis Batch: 606134

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			12/24/22 22:03	1

Lab Sample ID: MB 400-606134/42
Matrix: Water
Analysis Batch: 606134

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			12/24/22 22:18	1

Lab Sample ID: LCS 400-606134/43
Matrix: Water
Analysis Batch: 606134

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	50.9		mg/L		102	90 - 110		

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

Lab Sample ID: MRL 400-606134/15
Matrix: Water
Analysis Batch: 606134

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	1.89	J	mg/L		95	50 - 150		

Lab Sample ID: 400-230210-3 MS
Matrix: Water
Analysis Batch: 606134

Client Sample ID: MW-D6-20221206
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4.7		10.0	13.8		mg/L		90	73 - 120		

Lab Sample ID: 400-230210-3 MSD
Matrix: Water
Analysis Batch: 606134

Client Sample ID: MW-D6-20221206
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.7		10.0	14.7		mg/L		100	73 - 120	7	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-605044/10
Matrix: Water
Analysis Batch: 605044

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	0.070	mg/L			12/15/22 13:33	1

Lab Sample ID: LCS 400-605044/13
Matrix: Water
Analysis Batch: 605044

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	4.99		mg/L		100	90 - 110		

Lab Sample ID: MRL 400-605044/12
Matrix: Water
Analysis Batch: 605044

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	0.104		mg/L		104			

Lab Sample ID: 400-230176-A-1 MS
Matrix: Water
Analysis Batch: 605044

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	0.099	J	0.100	0.177		mg/L		78	75 - 125		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-230176-A-1 MSD
Matrix: Water
Analysis Batch: 605044

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	0.099	J	0.100	0.185		mg/L		85	75 - 125	4	4

Lab Sample ID: 400-230493-B-1 DU
Matrix: Water
Analysis Batch: 605044

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-604586/12
Matrix: Water
Analysis Batch: 604586

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			12/12/22 18:01	1

Lab Sample ID: LCS 400-604586/13
Matrix: Water
Analysis Batch: 604586

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	14.9		mg/L		99	90 - 110

Lab Sample ID: MRL 400-604586/14
Matrix: Water
Analysis Batch: 604586

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	4.55	J	mg/L		91	50 - 150

Lab Sample ID: 400-229969-I-11 MS
Matrix: Water
Analysis Batch: 604586

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	10		10.0	20.5		mg/L		101	77 - 128

Lab Sample ID: 400-229969-I-11 MSD
Matrix: Water
Analysis Batch: 604586

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	10		10.0	20.0		mg/L		96	77 - 128	2	5

Eurofins Pensacola
3355 McLem ve
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

eurofins ronment Testing erica

Client Information	Sampler: Imgenur Tepecik	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:

Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:
City: Kennesaw	TAT Requested (days): STANDARD
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No
Phone:	PO #: Purchase Order not required
Email: dyifru@geosyntec.com	WO #:
Project Name: Crisp County CCR	Project #: 40007960
Site: Crisp County Power	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-D4-20221205	12/05/22	1600	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 7.35
MW-D5-20221205	12/05/22	1533	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 7.13
MW-D6-20221206	12/06/22	1417	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 7.71
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-230210 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Imgenur Tepecik GEO	12/07/22 1700	GEO	FEDEX	12/07/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12-9-22 9:21	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9°C IR19

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12/29/2022

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230210-1

Login Number: 230210
List Number: 1
Creator: Whitley, Adrian

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.	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	2.9° 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 <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

Job ID: 400-230210-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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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

400-230210-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

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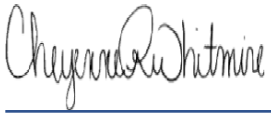
Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-230210-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-230210-2

Receipt
The samples were received on 12/9/2022 9:21 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C

Gas Flow Proportional Counter
Method 9315_Ra226: Ra-226 batch 593684. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D4-20221205 (400-230210-1), MW-D5-20221205 (400-230210-2), MW-D6-20221206 (400-230210-3), (LCS 160-593684/2-A), (MB 160-593684/1-A) and (400-230210-C-3-A DU)

Method 9320_Ra228: Radium-228 batch 593685. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D4-20221205 (400-230210-1), MW-D5-20221205 (400-230210-2), MW-D6-20221206 (400-230210-3), (LCS 160-593685/2-A), (MB 160-593685/1-A) and (400-230210-C-3-B DU)

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

Method Summary

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

Job ID: 400-230210-2

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: 400-230210-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-230210-1	MW-D4-20221205	Water	12/05/22 16:00	12/09/22 09:21
400-230210-2	MW-D5-20221205	Water	12/05/22 15:33	12/09/22 09:21
400-230210-3	MW-D6-20221206	Water	12/06/22 14:17	12/09/22 09:21

Client Sample Results

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

Job ID: 400-230210-2

Client Sample ID: MW-D4-20221205

Date Collected: 12/05/22 16:00
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133	U	0.132	0.132	1.00	0.207	pCi/L	12/15/22 09:13	01/06/23 14:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*40 - 110*	*12/15/22 09:13*	*01/06/23 14:46*	*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	0.509	U	0.370	0.373	1.00	0.561	pCi/L	12/15/22 09:45	01/04/23 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:29*	*1*
Y Carrier	*77.4*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:29*	*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	**0.642**		0.393	0.396	5.00	0.561	pCi/L		01/10/23 16:53	1

Client Sample ID: MW-D5-20221205

Date Collected: 12/05/22 15:33
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0833	U	0.0960	0.0963	1.00	0.155	pCi/L	12/15/22 09:13	01/06/23 20:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*40 - 110*	*12/15/22 09:13*	*01/06/23 20:38*	*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	0.309	U	0.384	0.386	1.00	0.637	pCi/L	12/15/22 09:45	01/04/23 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:29*	*1*
Y Carrier	*71.8*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:29*	*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	0.392	U	0.396	0.398	5.00	0.637	pCi/L		01/10/23 16:53	1

Client Sample ID: MW-D6-20221206

Date Collected: 12/06/22 14:17
Date Received: 12/09/22 09:21

Lab Sample ID: 400-230210-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0570	U	0.118	0.118	1.00	0.210	pCi/L	12/15/22 09:13	01/06/23 20:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*12/15/22 09:13*	*01/06/23 20:38*	*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	0.258	U	0.324	0.325	1.00	0.538	pCi/L	12/15/22 09:45	01/04/23 12:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:30*	*1*
Y Carrier	*81.5*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:30*	*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	0.315	U	0.345	0.346	5.00	0.538	pCi/L		01/10/23 16:53	1

Definitions/Glossary

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

Job ID: 400-230210-2

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

Job ID: 400-230210-2

Client Sample ID: MW-D4-20221205

Lab Sample ID: 400-230210-1

Date Collected: 12/05/22 16:00

Matrix: Water

Date Received: 12/09/22 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593684	DJP	EET SL	12/15/22 09:13
Total/NA	Analysis	9315		1	595885	FLC	EET SL	01/06/23 14:46
Total/NA	Prep	PrecSep_0			593685	DJP	EET SL	12/15/22 09:45
Total/NA	Analysis	9320		1	595512	FLC	EET SL	01/04/23 12:29
Total/NA	Analysis	Ra226_Ra228		1	596331	SCB	EET SL	01/10/23 16:53

Client Sample ID: MW-D5-20221205

Lab Sample ID: 400-230210-2

Date Collected: 12/05/22 15:33

Matrix: Water

Date Received: 12/09/22 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593684	DJP	EET SL	12/15/22 09:13
Total/NA	Analysis	9315		1	595884	FLC	EET SL	01/06/23 20:38
Total/NA	Prep	PrecSep_0			593685	DJP	EET SL	12/15/22 09:45
Total/NA	Analysis	9320		1	595512	FLC	EET SL	01/04/23 12:29
Total/NA	Analysis	Ra226_Ra228		1	596331	SCB	EET SL	01/10/23 16:53

Client Sample ID: MW-D6-20221206

Lab Sample ID: 400-230210-3

Date Collected: 12/06/22 14:17

Matrix: Water

Date Received: 12/09/22 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			593684	DJP	EET SL	12/15/22 09:13
Total/NA	Analysis	9315		1	595884	FLC	EET SL	01/06/23 20:38
Total/NA	Prep	PrecSep_0			593685	DJP	EET SL	12/15/22 09:45
Total/NA	Analysis	9320		1	595512	FLC	EET SL	01/04/23 12:30
Total/NA	Analysis	Ra226_Ra228		1	596331	SCB	EET SL	01/10/23 16:53

Laboratory References:

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

QC Association Summary

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

Job ID: 400-230210-2

Rad

Prep Batch: 593684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	PrecSep-21	
400-230210-2	MW-D5-20221205	Total/NA	Water	PrecSep-21	
400-230210-3	MW-D6-20221206	Total/NA	Water	PrecSep-21	
MB 160-593684/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-593684/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-230210-3 DU	MW-D6-20221206	Total/NA	Water	PrecSep-21	

Prep Batch: 593685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-230210-1	MW-D4-20221205	Total/NA	Water	PrecSep_0	
400-230210-2	MW-D5-20221205	Total/NA	Water	PrecSep_0	
400-230210-3	MW-D6-20221206	Total/NA	Water	PrecSep_0	
MB 160-593685/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-593685/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-230210-3 DU	MW-D6-20221206	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-593684/1-A
Matrix: Water
Analysis Batch: 595886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593684

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09365	U	0.149	0.149	1.00	0.256	pCi/L	12/15/22 09:13	01/06/23 12:16	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*40 - 110*	*12/15/22 09:13*	*01/06/23 12:16*	*1*

Lab Sample ID: LCS 160-593684/2-A
Matrix: Water
Analysis Batch: 595886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593684

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.35		1.18	1.00	0.196	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.1*		*40 - 110*

Lab Sample ID: 400-230210-3 DU
Matrix: Water
Analysis Batch: 595884

Client Sample ID: MW-D6-20221206
Prep Type: Total/NA
Prep Batch: 593684

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0570	U		0.02892	U	0.0541	1.00	0.0953	pCi/L			0.16	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*99.5*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-593685/1-A
Matrix: Water
Analysis Batch: 595512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593685

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2015	U	0.285	0.285	1.00	0.479	pCi/L	12/15/22 09:45	01/04/23 12:17	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:17*	*1*
Y Carrier	*83.4*		*40 - 110*	*12/15/22 09:45*	*01/04/23 12:17*	*1*

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

Lab Sample ID: LCS 160-593685/2-A
Matrix: Water
Analysis Batch: 595512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593685

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.30	9.951		1.32	1.00	0.456	pCi/L	120	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.1*		*40 - 110*
Y Carrier	*81.1*		*40 - 110*

Lab Sample ID: 400-230210-3 DU
Matrix: Water
Analysis Batch: 595512

Client Sample ID: MW-D6-20221206
Prep Type: Total/NA
Prep Batch: 593685

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.258	U		0.3477	U	0.354	1.00	0.571	pCi/L			0.13	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*99.5*		*40 - 110*
Y Carrier	*84.9*		*40 - 110*

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230210-2

Login Number: 230210
List Number: 1
Creator: Whitley, Adrian

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.	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	2.9° 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-230210-2

Login Number: 230210
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 12/14/22 11:24 AM

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

Accreditation/Certification Summary

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

Job ID: 400-230210-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22 *
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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

400-232063-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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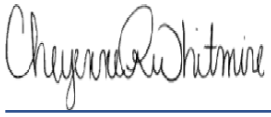

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Authorized for release by
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Table of Contents

Case Narrative

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

Job ID: 400-232063-1

Job ID: 400-232063-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-232063-1

Receipt
The samples were received on 1/21/2023 9:23 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 1.0º C.

Metals
Method 6020: The method blank for preparation batch 400-609673 and analytical batch 400-609934 contained Calcium above tl method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The CRI associated with batch 400-609934 recovered above the upper control limit for Boron and Cadmium. The LCS, MS, and MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. (LCS 400-609673/2-A ^5), (400-232064-C-3-C MS ^5) and (400-232064-C-3-D MSD ^5).

Method 6020: The ICV for batch 400-609934 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

General Chemistry
Method SM 4500 SO4 E: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-U2-20230118 (400-232063-2). Elevated reporting limits (RLs) are provided.

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

Detection Summary

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

Job ID: 400-232063-1

Client Sample ID: MW-U1-20230118 — Lab Sample ID: 400-232063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0021	J	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	36	B	0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.2		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.075	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	9.43				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U2-20230118 — Lab Sample ID: 400-232063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	44	B	0.25	0.13	mg/L	5		6020	Total Recoverable
Selenium	0.0015		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.18		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	120		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Field pH	7.64				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D4-20230118 — Lab Sample ID: 400-232063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.031		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	48	B	0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.6	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.14		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Field pH	8.18				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-232063-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-232063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-232063-1	MW-U1-20230118	Water	01/18/23 11:55	01/21/23 09:23
400-232063-2	MW-U2-20230118	Water	01/18/23 13:45	01/21/23 09:23
400-232063-3	MW-D4-20230118	Water	01/18/23 13:30	01/21/23 09:23

Client Sample Results

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

Job ID: 400-232063-1

Client Sample ID: MW-U1-20230118

Date Collected: 01/18/23 11:55
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:51	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:51	5
Barium	**0.0021**	**J**	0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:51	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:51	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:51	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 19:28	5
Calcium	**36**	**B**	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:51	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:51	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:51	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:51	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:51	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:51	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:51	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:51	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**110**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**2.2**		2.0	1.4	mg/L			01/22/23 20:32	1
Fluoride (SM 4500 F C)	**0.075**	**J**	0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**1.9**	**J**	5.0	1.4	mg/L			01/22/23 20:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**9.43**				SU			01/18/23 10:55	1

Client Sample Results

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

Job ID: 400-232063-1

Client Sample ID: MW-U2-20230118

Date Collected: 01/18/23 13:45
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:54	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:54	5
Barium	**0.030**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:54	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:54	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:54	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 19:31	5
Calcium	**44**	**B**	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:54	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:54	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:54	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:54	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:54	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:54	5
Selenium	**0.0015**		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:54	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:54	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**4.3**		2.0	1.4	mg/L			01/22/23 20:33	1
Fluoride (SM 4500 F C)	**0.18**		0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**120**		25	7.0	mg/L			01/22/23 20:28	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.64**				SU			01/18/23 12:45	1

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

Job ID: 400-232063-1

Client Sample ID: MW-D4-20230118

Date Collected: 01/18/23 13:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 16:28	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 16:28	5
Barium	**0.031**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 16:28	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 16:28	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 16:28	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 19:34	5
Calcium	**48**	**B**	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 16:28	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 16:28	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 16:28	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 16:28	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 16:28	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 16:28	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 16:28	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 16:28	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**1.6**	**J**	2.0	1.4	mg/L			01/22/23 20:33	1
Fluoride (SM 4500 F C)	**0.14**		0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			01/22/23 20:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.18**				SU			01/18/23 12:30	1

Definitions/Glossary

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

Job ID: 400-232063-1

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard 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.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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
F3	Duplicate RPD exceeds the control limit
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

Job ID: 400-232063-1

Client Sample ID: MW-U1-20230118

Lab Sample ID: 400-232063-1

Date Collected: 01/18/23 11:55

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 19:28
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:51
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:18
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:32
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		1	609462	DN1	EET PEN	01/22/23 20:13
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/18/23 10:55

Client Sample ID: MW-U2-20230118

Lab Sample ID: 400-232063-2

Date Collected: 01/18/23 13:45

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 19:31
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:54
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:19
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:33
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		5	609462	DN1	EET PEN	01/22/23 20:28
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/18/23 12:45

Client Sample ID: MW-D4-20230118

Lab Sample ID: 400-232063-3

Date Collected: 01/18/23 13:30

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 19:34
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 16:28
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:20
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:33
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45

Lab Chronicle

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

Job ID: 400-232063-1

Client Sample ID: MW-D4-20230118

Date Collected: 01/18/23 13:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-3

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	609462	DN1	EET PEN	01/22/23 20:15
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/18/23 12:30

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 609445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	7470A	
400-232063-2	MW-U2-20230118	Total/NA	Water	7470A	
400-232063-3	MW-D4-20230118	Total/NA	Water	7470A	
MB 400-609445/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-609445/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-232067-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-232067-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 609455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	7470A	609445
400-232063-2	MW-U2-20230118	Total/NA	Water	7470A	609445
400-232063-3	MW-D4-20230118	Total/NA	Water	7470A	609445
MB 400-609445/14-A	Method Blank	Total/NA	Water	7470A	609445
LCS 400-609445/15-A	Lab Control Sample	Total/NA	Water	7470A	609445
400-232067-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	609445
400-232067-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	609445

Prep Batch: 609673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total Recoverable	Water	3005A	
400-232063-2	MW-U2-20230118	Total Recoverable	Water	3005A	
400-232063-3	MW-D4-20230118	Total Recoverable	Water	3005A	
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-609673/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-232064-C-3-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-232064-C-3-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 609934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total Recoverable	Water	6020	609673
400-232063-2	MW-U2-20230118	Total Recoverable	Water	6020	609673
400-232063-3	MW-D4-20230118	Total Recoverable	Water	6020	609673
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	6020	609673
LCS 400-609673/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	609673
400-232064-C-3-C MS ^5	Matrix Spike	Total Recoverable	Water	6020	609673
400-232064-C-3-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	609673

Analysis Batch: 610100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total Recoverable	Water	6020	609673
400-232063-2	MW-U2-20230118	Total Recoverable	Water	6020	609673
400-232063-3	MW-D4-20230118	Total Recoverable	Water	6020	609673
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	6020	609673

General Chemistry

Analysis Batch: 609462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	SM 4500 SO4 E	
400-232063-2	MW-U2-20230118	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 609462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-3	MW-D4-20230118	Total/NA	Water	SM 4500 SO4 E	
MB 400-609462/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-609462/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-609462/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-4 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 609463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	SM 4500 Cl- E	
400-232063-2	MW-U2-20230118	Total/NA	Water	SM 4500 Cl- E	
400-232063-3	MW-D4-20230118	Total/NA	Water	SM 4500 Cl- E	
MB 400-609463/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-609463/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-609463/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-231847-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-231847-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 609544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	SM 4500 F C	
400-232063-2	MW-U2-20230118	Total/NA	Water	SM 4500 F C	
400-232063-3	MW-D4-20230118	Total/NA	Water	SM 4500 F C	
MB 400-609544/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-609544/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-609544/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-232063-1 MS	MW-U1-20230118	Total/NA	Water	SM 4500 F C	
400-232063-1 MSD	MW-U1-20230118	Total/NA	Water	SM 4500 F C	
400-232089-P-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 609715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	SM 2540C	
400-232063-2	MW-U2-20230118	Total/NA	Water	SM 2540C	
400-232063-3	MW-D4-20230118	Total/NA	Water	SM 2540C	
MB 400-609715/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-609715/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-231967-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 609612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	Field Sampling	
400-232063-2	MW-U2-20230118	Total/NA	Water	Field Sampling	
400-232063-3	MW-D4-20230118	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-609673/1-A ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 14:46	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 14:46	5
Barium	ND		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 14:46	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 14:46	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 14:46	5
Calcium	0.196	J	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 14:46	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 14:46	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 14:46	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 14:46	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 14:46	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 14:46	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 14:46	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 14:46	5

Lab Sample ID: MB 400-609673/1-A ^5
Matrix: Water
Analysis Batch: 610100

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 18:48	5

Lab Sample ID: LCS 400-609673/2-A ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0500	0.0499		mg/L		100	80 - 120
Barium	0.0500	0.0513		mg/L		103	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	0.100	0.0968	^3+	mg/L		97	80 - 120
Cadmium	0.0500	0.0544	^3+	mg/L		109	80 - 120
Calcium	5.00	5.32		mg/L		106	80 - 120
Chromium	0.0500	0.0464		mg/L		93	80 - 120
Cobalt	0.0500	0.0505		mg/L		101	80 - 120
Lead	0.0500	0.0502		mg/L		100	80 - 120
Lithium	0.0500	0.0562		mg/L		112	80 - 120
Molybdenum	0.0500	0.0500		mg/L		100	80 - 120
Selenium	0.0500	0.0462		mg/L		92	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: 400-232064-C-3-C MS ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0512		mg/L		102	75 - 125
Arsenic	0.0013		0.0500	0.0502		mg/L		98	75 - 125
Barium	0.076		0.0500	0.131		mg/L		108	75 - 125

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

Lab Sample ID: 400-232064-C-3-C MS ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0503		mg/L		101	75 - 125
Boron	0.025	J ^3+	0.100	0.141	^3+	mg/L		116	75 - 125
Cadmium	0.0050	^3+ B ^2	0.0500	0.0581	^3+	mg/L		106	75 - 125
Calcium	64	E B	5.00	70.0	E 4	mg/L		121	75 - 125
Chromium	ND		0.0500	0.0482		mg/L		96	75 - 125
Cobalt	ND		0.0500	0.0503		mg/L		101	75 - 125
Lead	ND		0.0500	0.0497		mg/L		99	75 - 125
Lithium	ND		0.0500	0.0510		mg/L		102	75 - 125
Molybdenum	ND		0.0500	0.0505		mg/L		101	75 - 125
Selenium	ND		0.0500	0.0483		mg/L		97	75 - 125
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-232064-C-3-D MSD ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0516		mg/L		103	75 - 125	1	20
Arsenic	0.0013		0.0500	0.0487		mg/L		95	75 - 125	3	20
Barium	0.076		0.0500	0.125		mg/L		97	75 - 125	4	20
Beryllium	ND		0.0500	0.0504		mg/L		101	75 - 125	0	20
Boron	0.025	J ^3+	0.100	0.135	^3+	mg/L		110	75 - 125	4	20
Cadmium	0.0050	^3+ B ^2	0.0500	0.0557	^3+	mg/L		101	75 - 125	4	20
Calcium	64	E B	5.00	69.1	4	mg/L		103	75 - 125	1	20
Chromium	ND		0.0500	0.0484		mg/L		97	75 - 125	0	20
Cobalt	ND		0.0500	0.0500		mg/L		100	75 - 125	1	20
Lead	ND		0.0500	0.0494		mg/L		99	75 - 125	1	20
Lithium	ND		0.0500	0.0523		mg/L		105	75 - 125	3	20
Molybdenum	ND		0.0500	0.0467		mg/L		93	75 - 125	8	20
Selenium	ND		0.0500	0.0487		mg/L		97	75 - 125	1	20
Thallium	ND		0.0100	0.00996		mg/L		100	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-609445/14-A
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:06	1

Lab Sample ID: LCS 400-609445/15-A
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

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

Lab Sample ID: 400-232067-D-1-B MS
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00188		mg/L		93	80 - 120

Lab Sample ID: 400-232067-D-1-C MSD
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00183		mg/L		91	80 - 120	3	20

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

Lab Sample ID: MB 400-609715/1
Matrix: Water
Analysis Batch: 609715

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			01/24/23 14:36	1

Lab Sample ID: LCS 400-609715/2
Matrix: Water
Analysis Batch: 609715

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	266		mg/L		91	78 - 122

Lab Sample ID: 400-231967-B-1 DU
Matrix: Water
Analysis Batch: 609715

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	240		322	F3	mg/L		29	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-609463/13
Matrix: Water
Analysis Batch: 609463

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			01/22/23 20:24	1

Lab Sample ID: LCS 400-609463/14
Matrix: Water
Analysis Batch: 609463

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	50.2		mg/L		100	90 - 110

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

Lab Sample ID: MRL 400-609463/15
Matrix: Water
Analysis Batch: 609463

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	1.92	J	mg/L		96	50 - 150		

Lab Sample ID: 400-231847-D-1 MS
Matrix: Water
Analysis Batch: 609463

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	4.9		10.0	14.9		mg/L		100	73 - 120		

Lab Sample ID: 400-231847-D-1 MSD
Matrix: Water
Analysis Batch: 609463

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	4.9		10.0	14.5		mg/L		96	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-609544/9
Matrix: Water
Analysis Batch: 609544

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	0.070	mg/L			01/23/23 12:45	1

Lab Sample ID: LCS 400-609544/12
Matrix: Water
Analysis Batch: 609544

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	4.88		mg/L		98	90 - 110		

Lab Sample ID: MRL 400-609544/11
Matrix: Water
Analysis Batch: 609544

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	0.108		mg/L		108			

Lab Sample ID: 400-232063-1 MS
Matrix: Water
Analysis Batch: 609544

Client Sample ID: MW-U1-20230118
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.075	J	0.100	0.174		mg/L		98	75 - 125		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-232063-1 MSD
Matrix: Water
Analysis Batch: 609544

Client Sample ID: MW-U1-20230118
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.075	J	0.100	0.174		mg/L		98	75 - 125	0	4

Lab Sample ID: 400-232089-P-1 DU
Matrix: Water
Analysis Batch: 609544

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.88		0.885		mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-609462/12
Matrix: Water
Analysis Batch: 609462

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			01/22/23 20:06	1

Lab Sample ID: LCS 400-609462/13
Matrix: Water
Analysis Batch: 609462

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	14.6		mg/L		98	90 - 110		

Lab Sample ID: MRL 400-609462/14
Matrix: Water
Analysis Batch: 609462

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	4.20	J	mg/L		84	50 - 150		

Lab Sample ID: 400-231847-D-1 MS
Matrix: Water
Analysis Batch: 609462

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	3.9	J	10.0	14.7		mg/L		108	77 - 128		

Lab Sample ID: 400-231847-D-1 MSD
Matrix: Water
Analysis Batch: 609462

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	3.9	J	10.0	15.1		mg/L		111	77 - 128	2	5

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

Lab Sample ID: 400-231847-D-4 MS
Matrix: Water
Analysis Batch: 609462

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	5.3		10.0	16.1		mg/L		108	77 - 128		

Lab Sample ID: 400-231847-D-4 MSD
Matrix: Water
Analysis Batch: 609462

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	5.3		10.0	16.9		mg/L		115	77 - 128	4	5

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

Chain of Custody Record

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Client Information	Sampler: Alana Neely	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-116789-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678.202.9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-U1-20230118	01/18/23	1155	G	Water	N	N	X	X	X	X	X	X	X	X		PH - 9.43
MW-U2-20230118	01/18/23	1345	G	Water	N	N	X	X	X	X	X	X	X	X		PH - 7.64
MW-D4-20230118	01/18/23	1330	G	Water	N	N	X	X	X	X	X	X	X	X		PH - 8.18
				Water												
				Water								AN				IN
AN				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-232063 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/21/23 0923	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8°C IR10

Ver: 06/08/2021

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1/30/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-232063-1

Login Number: 232063
List Number: 1
Creator: Whitley, Adrian

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.	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	1.0°C IR8
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

Job ID: 400-232063-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22 *
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/20/2023 10:34:24 AM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-232063-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

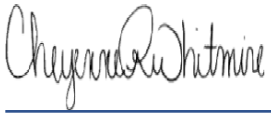
my EOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-232063-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-232063-2

Receipt
The samples were received on 1/21/2023 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 batch 598000. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-U1-20230118 (400-232063-1), MW-U2-20230118 (400-232063-2), MW-D4-20230118 (400-232063-3), (LCS 160-598000/2-A), (LCSD 160-598000/3-A) and (MB 160-598000/1-A)

Method 9320_Ra228: Radium-228 batch 598012. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-U1-20230118 (400-232063-1), MW-U2-20230118 (400-232063-2), MW-D4-20230118 (400-232063-3), (LCS 160-598012/2-A), (LCSD 160-598012/3-A) and (MB 160-598012/1-A)

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

Method Summary

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

Job ID: 400-232063-2

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: 400-232063-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-232063-1	MW-U1-20230118	Water	01/18/23 11:55	01/21/23 09:23
400-232063-2	MW-U2-20230118	Water	01/18/23 13:45	01/21/23 09:23
400-232063-3	MW-D4-20230118	Water	01/18/23 13:30	01/21/23 09:23

Client Sample ID: MW-U1-20230118

Date Collected: 01/18/23 11:55
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00618	U	0.0484	0.0484	1.00	0.0955	pCi/L	01/24/23 12:09	02/15/23 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*30 - 110*	*01/24/23 12:09*	*02/15/23 10:04*	*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	0.130	U	0.281	0.282	1.00	0.492	pCi/L	01/24/23 12:22	01/31/23 12:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*30 - 110*	*01/24/23 12:22*	*01/31/23 12:27*	*1*
Y Carrier	*88.2*		*30 - 110*	*01/24/23 12:22*	*01/31/23 12:27*	*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	0.285	0.286	5.00	0.492	pCi/L		02/15/23 23:09	1

Client Sample ID: MW-U2-20230118

Date Collected: 01/18/23 13:45
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0472	U	0.0580	0.0582	1.00	0.0957	pCi/L	01/24/23 12:09	02/15/23 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*30 - 110*	*01/24/23 12:09*	*02/15/23 10:04*	*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	0.501	U	0.351	0.354	1.00	0.532	pCi/L	01/24/23 12:23	01/31/23 12:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*30 - 110*	*01/24/23 12:23*	*01/31/23 12:27*	*1*
Y Carrier	*86.0*		*30 - 110*	*01/24/23 12:23*	*01/31/23 12:27*	*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	**0.548**		0.356	0.359	5.00	0.532	pCi/L		02/15/23 23:09	1

Client Sample ID: MW-D4-20230118

Date Collected: 01/18/23 13:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232063-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.117**		0.0806	0.0813	1.00	0.116	pCi/L	01/24/23 12:09	02/15/23 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*01/24/23 12:09*	*02/15/23 10:04*	*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	0.120	U	0.277	0.277	1.00	0.487	pCi/L	01/24/23 12:23	01/31/23 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*01/24/23 12:23*	*01/31/23 12:29*	*1*
Y Carrier	*88.2*		*30 - 110*	*01/24/23 12:23*	*01/31/23 12:29*	*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	0.237	U	0.288	0.289	5.00	0.487	pCi/L		02/15/23 23:09	1

Definitions/Glossary

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

Job ID: 400-232063-2

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

Job ID: 400-232063-2

Client Sample ID: MW-U1-20230118
Lab Sample ID: 400-232063-1
Date Collected: 01/18/23 11:55
Matrix: Water
Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598000	DJP	EET SL	01/24/23 12:09
Total/NA	Analysis	9315		1	600467	FLC	EET SL	02/15/23 10:04
Total/NA	Prep	PrecSep_0			598012	DJP	EET SL	01/24/23 12:22
Total/NA	Analysis	9320		1	598849	FLC	EET SL	01/31/23 12:27
Total/NA	Analysis	Ra226_Ra228		1	600512	EMH	EET SL	02/15/23 23:09

Client Sample ID: MW-U2-20230118
Lab Sample ID: 400-232063-2
Date Collected: 01/18/23 13:45
Matrix: Water
Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598000	DJP	EET SL	01/24/23 12:09
Total/NA	Analysis	9315		1	600467	FLC	EET SL	02/15/23 10:04
Total/NA	Prep	PrecSep_0			598012	DJP	EET SL	01/24/23 12:23
Total/NA	Analysis	9320		1	598849	FLC	EET SL	01/31/23 12:27
Total/NA	Analysis	Ra226_Ra228		1	600512	EMH	EET SL	02/15/23 23:09

Client Sample ID: MW-D4-20230118
Lab Sample ID: 400-232063-3
Date Collected: 01/18/23 13:30
Matrix: Water
Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598000	DJP	EET SL	01/24/23 12:09
Total/NA	Analysis	9315		1	600467	FLC	EET SL	02/15/23 10:04
Total/NA	Prep	PrecSep_0			598012	DJP	EET SL	01/24/23 12:23
Total/NA	Analysis	9320		1	598846	FLC	EET SL	01/31/23 12:29
Total/NA	Analysis	Ra226_Ra228		1	600512	EMH	EET SL	02/15/23 23:09

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

QC Association Summary

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

Job ID: 400-232063-2

Rad

Prep Batch: 598000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	PrecSep-21	
400-232063-2	MW-U2-20230118	Total/NA	Water	PrecSep-21	
400-232063-3	MW-D4-20230118	Total/NA	Water	PrecSep-21	
MB 160-598000/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-598000/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-598000/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 598012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232063-1	MW-U1-20230118	Total/NA	Water	PrecSep_0	
400-232063-2	MW-U2-20230118	Total/NA	Water	PrecSep_0	
400-232063-3	MW-D4-20230118	Total/NA	Water	PrecSep_0	
MB 160-598012/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-598012/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-598012/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-598000/1-A
Matrix: Water
Analysis Batch: 600464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598000

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02089	U	0.0448	0.0448	1.00	0.0825	pCi/L	01/24/23 10:22	02/15/23 10:07	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*01/24/23 10:22*	*02/15/23 10:07*	*1*

Lab Sample ID: LCS 160-598000/2-A
Matrix: Water
Analysis Batch: 600464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598000

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.66		1.09	1.00	0.0723	pCi/L	94	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.3*		*30 - 110*

Lab Sample ID: LCSD 160-598000/3-A
Matrix: Water
Analysis Batch: 600464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598000

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.99		1.12	1.00	0.116	pCi/L	97	75 - 125	0.15	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*96.3*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-598012/1-A
Matrix: Water
Analysis Batch: 598848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598012

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2147	U	0.309	0.310	1.00	0.521	pCi/L	01/24/23 10:38	01/31/23 11:46	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*01/24/23 10:38*	*01/31/23 11:46*	*1*
Y Carrier	*82.6*		*30 - 110*	*01/24/23 10:38*	*01/31/23 11:46*	*1*

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

Lab Sample ID: LCS 160-598012/2-A
Matrix: Water
Analysis Batch: 598848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598012

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.23	8.192		1.13	1.00	0.455	pCi/L	100	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.3*		*30 - 110*
Y Carrier	*85.2*		*30 - 110*

Lab Sample ID: LCSD 160-598012/3-A
Matrix: Water
Analysis Batch: 598848

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598012

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.23	7.773		1.08	1.00	0.444	pCi/L	94	75 - 125	0.19	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*96.3*		*30 - 110*
Y Carrier	*85.6*		*30 - 110*

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

Chain of Custody Record

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Client Information	Sampler: Alana Neely	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-116789-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678.202.9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
MW-U1-20230118	01/18/23	1155	G	Water	N	N	X	X	X	X	X	X	X	X		PH - 9.43
MW-U2-20230118	01/18/23	1345	G	Water	N	N	X	X	X	X	X	X	X	X		PH - 7.64
MW-D4-20230118	01/18/23	1330	G	Water	N	N	X	X	X	X	X	X	X	X		PH - 8.18
				Water												
				Water								AN				
AN				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

400-232063 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/21/23 0923	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.8°C IR10

Ver: 06/08/2021

2/20/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232063-2

Login Number: 232063
List Number: 1
Creator: Whitley, Adrian

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.	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	1.0°C IR8
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232063-2

Login Number: 232063
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 01/24/23 11:47 AM

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

Accreditation/Certification Summary

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

Job ID: 400-232063-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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

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

400-232064-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

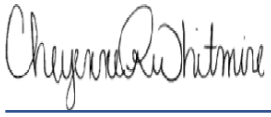
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-232064-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-232064-1

Receipt
The samples were received on 1/21/2023 9:23 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 1.3º C.

Metals
Method 6020: The CRI associated with batch 400-609934 recovered above the upper control limit for Boron. The samples associated with this CRI were non-detect for the affected analytes; therefore, the data have been reported.

Method 6020: The method blank for preparation batch 400-609673 and analytical batch 400-609934 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The CRI associated with batch 400-609934 recovered above the upper control limit for Boron and Cadmium. The LCS, MS, and MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. (LCS 400-609673/2-A ^5), (400-232064-C-3-C MS ^5) and (400-232064-C-3-D MSD ^5).

Method 6020: The ICV for batch 400-609934 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

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

Detection Summary

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

Job ID: 400-232064-1

Client Sample ID: MW-D8-20230119 — Lab Sample ID: 400-232064-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.059		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.035	J ^3+	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	79		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	19		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: MW-D9-20230119 — Lab Sample ID: 400-232064-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.0012	mg/L	5		6020	Total Recoverable
Barium	0.044		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	56		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.096	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.93				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-4-20230119 — Lab Sample ID: 400-232064-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0013	0.0012	mg/L	5		6020	Total Recoverable
Barium	0.076		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.025	J ^3+	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	64		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.079	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-232064-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-232064-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-232064-1	MW-D8-20230119	Water	01/19/23 10:35	01/21/23 09:23
400-232064-2	MW-D9-20230119	Water	01/19/23 11:00	01/21/23 09:23
400-232064-3	DUP-4-20230119	Water	01/19/23 12:00	01/21/23 09:23

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

Job ID: 400-232064-1

Client Sample ID: MW-D8-20230119

Date Collected: 01/19/23 10:35
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:45	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:45	5
Barium	**0.059**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:45	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:45	5
Boron	**0.035**	**J ^3+**	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:45	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 19:03	5
Calcium	**79**		0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:45	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:45	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:45	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:45	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:45	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:45	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:45	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:45	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**5.4**		2.0	1.4	mg/L			01/22/23 20:34	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**19**		5.0	1.4	mg/L			01/22/23 20:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.37**				SU			01/19/23 09:35	1

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

Job ID: 400-232064-1

Client Sample ID: MW-D9-20230119

Date Collected: 01/19/23 11:00
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:48	5
Arsenic	**0.0014**		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:48	5
Barium	**0.044**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:48	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:48	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:48	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 19:06	5
Calcium	**56**		0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:48	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:48	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:48	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:48	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:48	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:48	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:48	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:48	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**180**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**2.1**		2.0	1.4	mg/L			01/22/23 20:34	1
Fluoride (SM 4500 F C)	**0.096**	**J**	0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**2.4**	**J**	5.0	1.4	mg/L			01/22/23 20:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.93**				SU			01/19/23 10:00	1

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

Job ID: 400-232064-1

Client Sample ID: DUP-4-20230119
Date Collected: 01/19/23 12:00
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 14:56	5
Arsenic	**0.0013**		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 14:56	5
Barium	**0.076**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 14:56	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 14:56	5
Boron	**0.025**	**J ^3+**	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 14:56	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 18:51	5
Calcium	**64**		0.25	0.13	mg/L		01/24/23 12:36	01/25/23 14:56	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 14:56	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 14:56	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 14:56	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 14:56	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 14:56	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 14:56	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 14:56	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**3.8**		2.0	1.4	mg/L			01/22/23 20:35	1
Fluoride (SM 4500 F C)	**0.079**	**J**	0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**3.8**	**J**	5.0	1.4	mg/L			01/22/23 20:17	1

Definitions/Glossary

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

Job ID: 400-232064-1

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard 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.
E	Result exceeded calibration range.
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.
¤	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: 400-232064-1

Client Sample ID: MW-D8-20230119

Lab Sample ID: 400-232064-1

Date Collected: 01/19/23 10:35

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 19:03
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:45
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:25
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:34
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		1	609462	DN1	EET PEN	01/22/23 20:16
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/19/23 09:35

Client Sample ID: MW-D9-20230119

Lab Sample ID: 400-232064-2

Date Collected: 01/19/23 11:00

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 19:06
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:48
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:26
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:34
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		1	609462	DN1	EET PEN	01/22/23 20:16
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/19/23 10:00

Client Sample ID: DUP-4-20230119

Lab Sample ID: 400-232064-3

Date Collected: 01/19/23 12:00

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 18:51
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 14:56
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:27
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:35
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45

Lab Chronicle

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

Job ID: 400-232064-1

Client Sample ID: DUP-4-20230119

Date Collected: 01/19/23 12:00
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-3

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	609462	DN1	EET PEN	01/22/23 20:17

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 609445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	7470A	
400-232064-2	MW-D9-20230119	Total/NA	Water	7470A	
400-232064-3	DUP-4-20230119	Total/NA	Water	7470A	
MB 400-609445/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-609445/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-232067-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-232067-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 609455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	7470A	609445
400-232064-2	MW-D9-20230119	Total/NA	Water	7470A	609445
400-232064-3	DUP-4-20230119	Total/NA	Water	7470A	609445
MB 400-609445/14-A	Method Blank	Total/NA	Water	7470A	609445
LCS 400-609445/15-A	Lab Control Sample	Total/NA	Water	7470A	609445
400-232067-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	609445
400-232067-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	609445

Prep Batch: 609673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total Recoverable	Water	3005A	
400-232064-2	MW-D9-20230119	Total Recoverable	Water	3005A	
400-232064-3	DUP-4-20230119	Total Recoverable	Water	3005A	
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-609673/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-232064-3 MS	DUP-4-20230119	Total Recoverable	Water	3005A	
400-232064-3 MSD	DUP-4-20230119	Total Recoverable	Water	3005A	

Analysis Batch: 609934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total Recoverable	Water	6020	609673
400-232064-2	MW-D9-20230119	Total Recoverable	Water	6020	609673
400-232064-3	DUP-4-20230119	Total Recoverable	Water	6020	609673
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	6020	609673
LCS 400-609673/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	609673
400-232064-3 MS	DUP-4-20230119	Total Recoverable	Water	6020	609673
400-232064-3 MSD	DUP-4-20230119	Total Recoverable	Water	6020	609673

Analysis Batch: 610100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total Recoverable	Water	6020	609673
400-232064-2	MW-D9-20230119	Total Recoverable	Water	6020	609673
400-232064-3	DUP-4-20230119	Total Recoverable	Water	6020	609673
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	6020	609673

General Chemistry

Analysis Batch: 609462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	SM 4500 SO4 E	
400-232064-2	MW-D9-20230119	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 609462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-3	DUP-4-20230119	Total/NA	Water	SM 4500 SO4 E	
MB 400-609462/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-609462/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-609462/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 609463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	SM 4500 Cl- E	
400-232064-2	MW-D9-20230119	Total/NA	Water	SM 4500 Cl- E	
400-232064-3	DUP-4-20230119	Total/NA	Water	SM 4500 Cl- E	
MB 400-609463/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-609463/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-609463/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-231847-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-231847-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 609544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	SM 4500 F C	
400-232064-2	MW-D9-20230119	Total/NA	Water	SM 4500 F C	
400-232064-3	DUP-4-20230119	Total/NA	Water	SM 4500 F C	
MB 400-609544/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-609544/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-609544/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-232063-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-232063-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-232089-P-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 609715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	SM 2540C	
400-232064-2	MW-D9-20230119	Total/NA	Water	SM 2540C	
400-232064-3	DUP-4-20230119	Total/NA	Water	SM 2540C	
MB 400-609715/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-609715/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-232064-1 DU	MW-D8-20230119	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 609612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	Field Sampling	
400-232064-2	MW-D9-20230119	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-609673/1-A ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 14:46	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 14:46	5
Barium	ND		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 14:46	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 14:46	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 14:46	5
Calcium	0.196	J	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 14:46	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 14:46	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 14:46	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 14:46	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 14:46	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 14:46	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 14:46	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 14:46	5

Lab Sample ID: MB 400-609673/1-A ^5
Matrix: Water
Analysis Batch: 610100

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 18:48	5

Lab Sample ID: LCS 400-609673/2-A ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0500	0.0499		mg/L		100	80 - 120
Barium	0.0500	0.0513		mg/L		103	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	0.100	0.0968	^3+	mg/L		97	80 - 120
Cadmium	0.0500	0.0544	^3+	mg/L		109	80 - 120
Calcium	5.00	5.32		mg/L		106	80 - 120
Chromium	0.0500	0.0464		mg/L		93	80 - 120
Cobalt	0.0500	0.0505		mg/L		101	80 - 120
Lead	0.0500	0.0502		mg/L		100	80 - 120
Lithium	0.0500	0.0562		mg/L		112	80 - 120
Molybdenum	0.0500	0.0500		mg/L		100	80 - 120
Selenium	0.0500	0.0462		mg/L		92	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: 400-232064-3 MS
Matrix: Water
Analysis Batch: 609934

Client Sample ID: DUP-4-20230119
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0512		mg/L		102	75 - 125
Arsenic	0.0013		0.0500	0.0502		mg/L		98	75 - 125
Barium	0.076		0.0500	0.131		mg/L		108	75 - 125

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

Lab Sample ID: 400-232064-3 MS
Matrix: Water
Analysis Batch: 609934

Client Sample ID: DUP-4-20230119
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0503		mg/L		101	75 - 125
Boron	0.025	J ^3+	0.100	0.141	^3+	mg/L		116	75 - 125
Cadmium	0.0050	^3+ B ^2	0.0500	0.0581	^3+	mg/L		106	75 - 125
Calcium	64		5.00	70.0	E 4	mg/L		121	75 - 125
Chromium	ND		0.0500	0.0482		mg/L		96	75 - 125
Cobalt	ND		0.0500	0.0503		mg/L		101	75 - 125
Lead	ND		0.0500	0.0497		mg/L		99	75 - 125
Lithium	ND		0.0500	0.0510		mg/L		102	75 - 125
Molybdenum	ND		0.0500	0.0505		mg/L		101	75 - 125
Selenium	ND		0.0500	0.0483		mg/L		97	75 - 125
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-232064-3 MSD
Matrix: Water
Analysis Batch: 609934

Client Sample ID: DUP-4-20230119
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0516		mg/L		103	75 - 125	1	20
Arsenic	0.0013		0.0500	0.0487		mg/L		95	75 - 125	3	20
Barium	0.076		0.0500	0.125		mg/L		97	75 - 125	4	20
Beryllium	ND		0.0500	0.0504		mg/L		101	75 - 125	0	20
Boron	0.025	J ^3+	0.100	0.135	^3+	mg/L		110	75 - 125	4	20
Cadmium	0.0050	^3+ B ^2	0.0500	0.0557	^3+	mg/L		101	75 - 125	4	20
Calcium	64		5.00	69.1	E 4	mg/L		103	75 - 125	1	20
Chromium	ND		0.0500	0.0484		mg/L		97	75 - 125	0	20
Cobalt	ND		0.0500	0.0500		mg/L		100	75 - 125	1	20
Lead	ND		0.0500	0.0494		mg/L		99	75 - 125	1	20
Lithium	ND		0.0500	0.0523		mg/L		105	75 - 125	3	20
Molybdenum	ND		0.0500	0.0467		mg/L		93	75 - 125	8	20
Selenium	ND		0.0500	0.0487		mg/L		97	75 - 125	1	20
Thallium	ND		0.0100	0.00996		mg/L		100	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-609445/14-A
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:06	1

Lab Sample ID: LCS 400-609445/15-A
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

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

Lab Sample ID: 400-232067-D-1-B MS
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00188		mg/L		93	80 - 120

Lab Sample ID: 400-232067-D-1-C MSD
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00183		mg/L		91	80 - 120	3	20

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

Lab Sample ID: MB 400-609715/1
Matrix: Water
Analysis Batch: 609715

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			01/24/23 14:36	1

Lab Sample ID: LCS 400-609715/2
Matrix: Water
Analysis Batch: 609715

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	266		mg/L		91	78 - 122

Lab Sample ID: 400-232064-1 DU
Matrix: Water
Analysis Batch: 609715

Client Sample ID: MW-D8-20230119
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		246		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-609463/13
Matrix: Water
Analysis Batch: 609463

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			01/22/23 20:24	1

Lab Sample ID: LCS 400-609463/14
Matrix: Water
Analysis Batch: 609463

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	50.2		mg/L		100	90 - 110

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

Lab Sample ID: MRL 400-609463/15
Matrix: Water
Analysis Batch: 609463

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	1.92	J	mg/L		96	50 - 150		

Lab Sample ID: 400-231847-D-1 MS
Matrix: Water
Analysis Batch: 609463

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	4.9		10.0	14.9		mg/L		100	73 - 120		

Lab Sample ID: 400-231847-D-1 MSD
Matrix: Water
Analysis Batch: 609463

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	4.9		10.0	14.5		mg/L		96	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-609544/9
Matrix: Water
Analysis Batch: 609544

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	0.070	mg/L			01/23/23 12:45	1

Lab Sample ID: LCS 400-609544/12
Matrix: Water
Analysis Batch: 609544

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	4.88		mg/L		98	90 - 110		

Lab Sample ID: MRL 400-609544/11
Matrix: Water
Analysis Batch: 609544

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	0.108		mg/L		108			

Lab Sample ID: 400-232063-B-1 MS
Matrix: Water
Analysis Batch: 609544

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	0.075	J	0.100	0.174		mg/L		98	75 - 125		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-232063-B-1 MSD
Matrix: Water
Analysis Batch: 609544

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	0.075	J	0.100	0.174		mg/L		98	75 - 125	0	4

Lab Sample ID: 400-232089-P-1 DU
Matrix: Water
Analysis Batch: 609544

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.88		0.885		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-609462/12
Matrix: Water
Analysis Batch: 609462

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			01/22/23 20:06	1

Lab Sample ID: LCS 400-609462/13
Matrix: Water
Analysis Batch: 609462

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	14.6		mg/L		98	90 - 110

Lab Sample ID: MRL 400-609462/14
Matrix: Water
Analysis Batch: 609462

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	4.20	J	mg/L		84	50 - 150

Lab Sample ID: 400-231847-D-1 MS
Matrix: Water
Analysis Batch: 609462

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	3.9	J	10.0	14.7		mg/L		108	77 - 128

Lab Sample ID: 400-231847-D-1 MSD
Matrix: Water
Analysis Batch: 609462

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	3.9	J	10.0	15.1		mg/L		111	77 - 128	2	5

Eurofins Pensacola
3355 McLem[illegible]ave
Pensacola [illegible]14
Phone 850 474 1001 Fax 850-478-2671

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eurofins [illegible]ronment Testing [illegible]erica

Client Information	Sampler: Alana Neely	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
MW-D8-20230119	01/19/23	1035	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 7.37
MW-D9-20230119	01/19/23	1100	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 8.93
DUP-4-20230119	01/19/23	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water										AN		
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

AN

400-232064 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					1/2 1/23 9:23	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					1.3°C	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: T.02 IR10

Ver 06/08/2021

1/30/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-232064-1

Login Number: 232064
List Number: 1
Creator: Whitley, Adrian

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.	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	1.3°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 <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. Job ID: 400-232064-1
Project/Site: Crisp County Power

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22 *
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/20/2023 10:37:20 AM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-232064-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

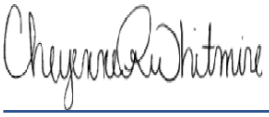
my EOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-232064-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-232064-2

Receipt
The samples were received on 1/21/2023 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 batch 598270. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D8-20230119 (400-232064-1), MW-D9-20230119 (400-232064-2), DUP-4-20230119 (400-232064-3), (LCS 160-598270/2-A) and (MB 160-598270/1-A)

Method 9320_Ra228: Radium-228 batch 598271. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D8-20230119 (400-232064-1), MW-D9-20230119 (400-232064-2), DUP-4-20230119 (400-232064-3), (LCS 160-598271/2-A), (MB 160-598271/1-A), (160-48340-A-3-H) and (160-48340-A-3-I DU)

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

Method Summary

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

Job ID: 400-232064-2

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: 400-232064-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-232064-1	MW-D8-20230119	Water	01/19/23 10:35	01/21/23 09:23
400-232064-2	MW-D9-20230119	Water	01/19/23 11:00	01/21/23 09:23
400-232064-3	DUP-4-20230119	Water	01/19/23 12:00	01/21/23 09:23

Client Sample ID: MW-D8-20230119

Date Collected: 01/19/23 10:35
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0648	U	0.0724	0.0726	1.00	0.117	pCi/L	01/26/23 09:03	02/17/23 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*01/26/23 09:03*	*02/17/23 09:48*	*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	0.289	0.289	1.00	0.478	pCi/L	01/26/23 09:26	01/31/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*01/26/23 09:26*	*01/31/23 12:00*	*1*
Y Carrier	*85.2*		*30 - 110*	*01/26/23 09:26*	*01/31/23 12:00*	*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	0.300	U	0.298	0.298	5.00	0.478	pCi/L		02/17/23 14:47	1

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

Job ID: 400-232064-2

Client Sample ID: MW-D9-20230119

Date Collected: 01/19/23 11:00
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-2

Matrix: Water

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	0.0712	0.0716	1.00	0.109	pCi/L	01/26/23 09:03	02/17/23 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.9*		*30 - 110*	*01/26/23 09:03*	*02/17/23 09:48*	*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	0.309	U	0.334	0.335	1.00	0.543	pCi/L	01/26/23 09:26	01/31/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.9*		*30 - 110*	*01/26/23 09:26*	*01/31/23 12:00*	*1*
Y Carrier	*86.0*		*30 - 110*	*01/26/23 09:26*	*01/31/23 12:00*	*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	0.388	U	0.342	0.343	5.00	0.543	pCi/L		02/17/23 14:47	1

Client Sample ID: DUP-4-20230119

Date Collected: 01/19/23 12:00
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232064-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0298	U	0.0674	0.0674	1.00	0.120	pCi/L	01/26/23 09:03	02/17/23 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*01/26/23 09:03*	*02/17/23 09:48*	*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	0.305	U	0.350	0.352	1.00	0.576	pCi/L	01/26/23 09:26	01/31/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*01/26/23 09:26*	*01/31/23 12:00*	*1*
Y Carrier	*86.4*		*30 - 110*	*01/26/23 09:26*	*01/31/23 12:00*	*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	0.335	U	0.356	0.358	5.00	0.576	pCi/L		02/17/23 14:47	1

Definitions/Glossary

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

Job ID: 400-232064-2

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

Job ID: 400-232064-2

Client Sample ID: MW-D8-20230119

Lab Sample ID: 400-232064-1

Date Collected: 01/19/23 10:35

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598270	DJP	EET SL	01/26/23 09:03
Total/NA	Analysis	9315		1	600728	FLC	EET SL	02/17/23 09:48
Total/NA	Prep	PrecSep_0			598271	DJP	EET SL	01/26/23 09:26
Total/NA	Analysis	9320		1	598846	FLC	EET SL	01/31/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	600740	EMH	EET SL	02/17/23 14:47

Client Sample ID: MW-D9-20230119

Lab Sample ID: 400-232064-2

Date Collected: 01/19/23 11:00

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598270	DJP	EET SL	01/26/23 09:03
Total/NA	Analysis	9315		1	600728	FLC	EET SL	02/17/23 09:48
Total/NA	Prep	PrecSep_0			598271	DJP	EET SL	01/26/23 09:26
Total/NA	Analysis	9320		1	598846	FLC	EET SL	01/31/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	600740	EMH	EET SL	02/17/23 14:47

Client Sample ID: DUP-4-20230119

Lab Sample ID: 400-232064-3

Date Collected: 01/19/23 12:00

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598270	DJP	EET SL	01/26/23 09:03
Total/NA	Analysis	9315		1	600728	FLC	EET SL	02/17/23 09:48
Total/NA	Prep	PrecSep_0			598271	DJP	EET SL	01/26/23 09:26
Total/NA	Analysis	9320		1	598846	FLC	EET SL	01/31/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	600740	EMH	EET SL	02/17/23 14:47

Laboratory References:

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

Rad

Prep Batch: 598270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	PrecSep-21	
400-232064-2	MW-D9-20230119	Total/NA	Water	PrecSep-21	
400-232064-3	DUP-4-20230119	Total/NA	Water	PrecSep-21	
MB 160-598270/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-598270/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-48340-A-3-G DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 598271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232064-1	MW-D8-20230119	Total/NA	Water	PrecSep_0	
400-232064-2	MW-D9-20230119	Total/NA	Water	PrecSep_0	
400-232064-3	DUP-4-20230119	Total/NA	Water	PrecSep_0	
160-48340-A-3-I DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-598270/1-A
Matrix: Water
Analysis Batch: 600725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598270

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03771	U	0.0468	0.0469	1.00	0.0769	pCi/L	01/26/23 09:03	02/17/23 09:50	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*30 - 110*	*01/26/23 09:03*	*02/17/23 09:50*	*1*

Lab Sample ID: LCS 160-598270/2-A
Matrix: Water
Analysis Batch: 600725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598270

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.08		1.13	1.00	0.115	pCi/L	98	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.7*		*30 - 110*

Lab Sample ID: 160-48340-A-3-G DU
Matrix: Water
Analysis Batch: 600725

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 598270

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.34			1.456		0.263	1.00	0.119	pCi/L			0.23	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*92.9*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: 160-48340-A-3-I DU
Matrix: Water
Analysis Batch: 598849

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 598271

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	2.60			2.783		0.556	1.00	0.495	pCi/L			0.17	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*92.9*		*30 - 110*
Y Carrier	*86.0*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible]ave
Pensacola [illegible]14
Phone 850 474 1001 Fax 850-478-2671

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eurofins [illegible]ronment Testing [illegible]erica

Client Information	Sampler: Alana Neely	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:													
MW-D8-20230119	01/19/23	1035	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 7.37
MW-D9-20230119	01/19/23	1100	G	Water	N	N	X	X	X	X	X	X	X	X		pH - 8.93
DUP-4-20230119	01/19/23	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water										AN		
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

AN

400-232064 COC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					1/2 1/23 9:20	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					1.3°C	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: T.02 JRO

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232064-2

Login Number: 232064
List Number: 1
Creator: Whitley, Adrian

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.	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	1.3°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232064-2

Login Number: 232064
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 01/24/23 11:47 AM

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

Accreditation/Certification Summary

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

Job ID: 400-232064-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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

400-232065-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

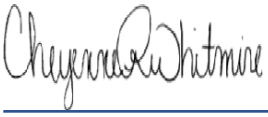
my EOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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

Table of Contents

Job ID: 400-232065-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-232065-1

Receipt
The samples were received on 1/21/2023 9:23 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 1.4º C.

Metals
Method 6020: The method blank for preparation batch 400-609673 and analytical batch 400-609934 contained Calcium above tl method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The CRI associated with batch 400-609934 recovered above the upper control limit for Boron and Cadmium. The LCS, MS, and MSD associated with this CRI were within limits for the affected analytes; therefore, the data have been reported. (LCS 400-609673/2-A ^5), (400-232064-C-3-C MS ^5) and (400-232064-C-3-D MSD ^5).

Method 6020: The continuing calibration blank (CCB) for analytical batch 400-609934 contained Chromium above the reporting (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-609934 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for fie samples. Data has therefore been reported and narrated accordingly.

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 1/30/2023. The report (revision 1) is being revised due to: Client requested that the pH be changed on the report. It was incorrectly transcribed from the field sheet to the coc. It was changed from 9.98 to 8.31 on sample 1.

Detection Summary

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

Job ID: 400-232065-1

Client Sample ID: MW-D5-20230118 — Lab Sample ID: 400-232065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.032		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	43	B	0.25	0.13	mg/L	5		6020	Total Recoverable
Lead	0.00095	J	0.0013	0.00081	mg/L	5		6020	Total Recoverable
Lithium	0.0067		0.0025	0.0049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	7.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.31				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D6-20230118 — Lab Sample ID: 400-232065-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0083		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	35	B	0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0056		0.0025	0.0049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	2100		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.89				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D7-20230119 — Lab Sample ID: 400-232065-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.080		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.023	J ^3+	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	64		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.079	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-232065-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-232065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-232065-1	MW-D5-20230118	Water	01/18/23 15:25	01/21/23 09:23
400-232065-2	MW-D6-20230118	Water	01/18/23 16:15	01/21/23 09:23
400-232065-3	MW-D7-20230119	Water	01/19/23 09:30	01/21/23 09:23

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

Job ID: 400-232065-1

Client Sample ID: MW-D5-20230118

Date Collected: 01/18/23 15:25
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:15	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:15	5
Barium	**0.032**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:15	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:15	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:15	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 18:54	5
Calcium	**43**	**B**	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:15	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:15	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:15	5
Lead	**0.00095**	**J**	0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:15	5
Lithium	**0.0067**		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:15	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:15	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:15	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:15	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**7.6**		2.0	1.4	mg/L			01/22/23 20:35	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**3.1**	**J**	5.0	1.4	mg/L			01/22/23 20:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.31**				SU			01/18/23 14:25	1

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

Job ID: 400-232065-1

Client Sample ID: MW-D6-20230118

Date Collected: 01/18/23 16:15
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:38	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:38	5
Barium	**0.0083**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:38	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:38	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:38	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 18:57	5
Calcium	**35**	**B**	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:38	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:38	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:38	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:38	5
Lithium	**0.0056**		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:38	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:38	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:38	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:38	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2100**		5.0	5.0	mg/L			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**4.4**		2.0	1.4	mg/L			01/22/23 20:36	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**1.9**	**J**	5.0	1.4	mg/L			01/22/23 20:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.89**				SU			01/18/23 15:15	1

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

Job ID: 400-232065-1

Client Sample ID: MW-D7-20230119

Date Collected: 01/19/23 09:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 15:41	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 15:41	5
Barium	**0.080**		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 15:41	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 15:41	5
Boron	**0.023**	**J ^3+**	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 15:41	5
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 19:00	5
Calcium	**64**		0.25	0.13	mg/L		01/24/23 12:36	01/25/23 15:41	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 15:41	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 15:41	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 15:41	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 15:41	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 15:41	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 15:41	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 15:41	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:24	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			01/24/23 14:36	1
Chloride (SM 4500 Cl- E)	**3.5**		2.0	1.4	mg/L			01/22/23 20:36	1
Fluoride (SM 4500 F C)	**0.079**	**J**	0.10	0.070	mg/L			01/23/23 12:45	1
Sulfate (SM 4500 SO4 E)	**4.1**	**J**	5.0	1.4	mg/L			01/22/23 20:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.33**				SU			01/19/23 08:30	1

Definitions/Glossary

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

Job ID: 400-232065-1

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard 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.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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
F3	Duplicate RPD exceeds the control limit
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

Job ID: 400-232065-1

Client Sample ID: MW-D5-20230118
Date Collected: 01/18/23 15:25
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 18:54
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:15
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:21
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:35
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		1	609462	DN1	EET PEN	01/22/23 20:17
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/18/23 14:25

Client Sample ID: MW-D6-20230118
Date Collected: 01/18/23 16:15
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 18:57
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:38
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:23
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:36
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		1	609462	DN1	EET PEN	01/22/23 20:17
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/18/23 15:15

Client Sample ID: MW-D7-20230119
Date Collected: 01/19/23 09:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	610100	NTH	EET PEN	01/26/23 19:00
Total Recoverable	Prep	3005A			609673	ARE	EET PEN	01/24/23 12:36 - 01/24/23 16:05 [1]
Total Recoverable	Analysis	6020		5	609934	NTH	EET PEN	01/25/23 15:41
Total/NA	Prep	7470A			609445	CJK	EET PEN	01/22/23 10:25 - 01/22/23 12:49 [1]
Total/NA	Analysis	7470A		1	609455	NET	EET PEN	01/22/23 16:24
Total/NA	Analysis	SM 2540C		1	609715	DEK	EET PEN	01/24/23 14:36
Total/NA	Analysis	SM 4500 Cl- E		1	609463	DN1	EET PEN	01/22/23 20:36
Total/NA	Analysis	SM 4500 F C		1	609544	JP	EET PEN	01/23/23 12:45

Lab Chronicle

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

Job ID: 400-232065-1

Client Sample ID: MW-D7-20230119

Date Collected: 01/19/23 09:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-3

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	609462	DN1	EET PEN	01/22/23 20:10
Total/NA	Analysis	Field Sampling		1	609612	S1K	EET PEN	01/19/23 08:30

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Metals

Prep Batch: 609445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	7470A	
400-232065-2	MW-D6-20230118	Total/NA	Water	7470A	
400-232065-3	MW-D7-20230119	Total/NA	Water	7470A	
MB 400-609445/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-609445/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-232067-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-232067-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 609455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	7470A	609445
400-232065-2	MW-D6-20230118	Total/NA	Water	7470A	609445
400-232065-3	MW-D7-20230119	Total/NA	Water	7470A	609445
MB 400-609445/14-A	Method Blank	Total/NA	Water	7470A	609445
LCS 400-609445/15-A	Lab Control Sample	Total/NA	Water	7470A	609445
400-232067-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	609445
400-232067-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	609445

Prep Batch: 609673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total Recoverable	Water	3005A	
400-232065-2	MW-D6-20230118	Total Recoverable	Water	3005A	
400-232065-3	MW-D7-20230119	Total Recoverable	Water	3005A	
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-609673/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-232064-C-3-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-232064-C-3-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 609934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total Recoverable	Water	6020	609673
400-232065-2	MW-D6-20230118	Total Recoverable	Water	6020	609673
400-232065-3	MW-D7-20230119	Total Recoverable	Water	6020	609673
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	6020	609673
LCS 400-609673/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	609673
400-232064-C-3-C MS ^5	Matrix Spike	Total Recoverable	Water	6020	609673
400-232064-C-3-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	609673

Analysis Batch: 610100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total Recoverable	Water	6020	609673
400-232065-2	MW-D6-20230118	Total Recoverable	Water	6020	609673
400-232065-3	MW-D7-20230119	Total Recoverable	Water	6020	609673
MB 400-609673/1-A ^5	Method Blank	Total Recoverable	Water	6020	609673

General Chemistry

Analysis Batch: 609462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	SM 4500 SO4 E	
400-232065-2	MW-D6-20230118	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 609462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-3	MW-D7-20230119	Total/NA	Water	SM 4500 SO4 E	
MB 400-609462/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-609462/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-609462/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-231847-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 609463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	SM 4500 Cl- E	
400-232065-2	MW-D6-20230118	Total/NA	Water	SM 4500 Cl- E	
400-232065-3	MW-D7-20230119	Total/NA	Water	SM 4500 Cl- E	
MB 400-609463/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-609463/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-609463/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-231847-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-231847-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 609544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	SM 4500 F C	
400-232065-2	MW-D6-20230118	Total/NA	Water	SM 4500 F C	
400-232065-3	MW-D7-20230119	Total/NA	Water	SM 4500 F C	
MB 400-609544/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-609544/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-609544/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-232063-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-232063-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-232089-P-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 609715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	SM 2540C	
400-232065-2	MW-D6-20230118	Total/NA	Water	SM 2540C	
400-232065-3	MW-D7-20230119	Total/NA	Water	SM 2540C	
MB 400-609715/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-609715/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-231967-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 609612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	Field Sampling	
400-232065-2	MW-D6-20230118	Total/NA	Water	Field Sampling	
400-232065-3	MW-D7-20230119	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-609673/1-A ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		01/24/23 12:36	01/25/23 14:46	5
Arsenic	ND		0.0013	0.0012	mg/L		01/24/23 12:36	01/25/23 14:46	5
Barium	ND		0.0025	0.00070	mg/L		01/24/23 12:36	01/25/23 14:46	5
Beryllium	ND		0.0020	0.00092	mg/L		01/24/23 12:36	01/25/23 14:46	5
Boron	ND	^3+	0.050	0.0012	mg/L		01/24/23 12:36	01/25/23 14:46	5
Calcium	0.196	J	0.25	0.13	mg/L		01/24/23 12:36	01/25/23 14:46	5
Chromium	ND		0.0025	0.0010	mg/L		01/24/23 12:36	01/25/23 14:46	5
Cobalt	ND		0.0025	0.00056	mg/L		01/24/23 12:36	01/25/23 14:46	5
Lead	ND		0.0013	0.00081	mg/L		01/24/23 12:36	01/25/23 14:46	5
Lithium	ND		0.0025	0.0049	mg/L		01/24/23 12:36	01/25/23 14:46	5
Molybdenum	ND		0.010	0.0013	mg/L		01/24/23 12:36	01/25/23 14:46	5
Selenium	ND		0.0013	0.00082	mg/L		01/24/23 12:36	01/25/23 14:46	5
Thallium	ND		0.00050	0.00046	mg/L		01/24/23 12:36	01/25/23 14:46	5

Lab Sample ID: MB 400-609673/1-A ^5
Matrix: Water
Analysis Batch: 610100

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00065	mg/L		01/24/23 12:36	01/26/23 18:48	5

Lab Sample ID: LCS 400-609673/2-A ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0500	0.0499		mg/L		100	80 - 120
Barium	0.0500	0.0513		mg/L		103	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	0.100	0.0968	^3+	mg/L		97	80 - 120
Cadmium	0.0500	0.0544	^3+	mg/L		109	80 - 120
Calcium	5.00	5.32		mg/L		106	80 - 120
Chromium	0.0500	0.0464		mg/L		93	80 - 120
Cobalt	0.0500	0.0505		mg/L		101	80 - 120
Lead	0.0500	0.0502		mg/L		100	80 - 120
Lithium	0.0500	0.0562		mg/L		112	80 - 120
Molybdenum	0.0500	0.0500		mg/L		100	80 - 120
Selenium	0.0500	0.0462		mg/L		92	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: 400-232064-C-3-C MS ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0512		mg/L		102	75 - 125
Arsenic	0.0013		0.0500	0.0502		mg/L		98	75 - 125
Barium	0.076		0.0500	0.131		mg/L		108	75 - 125

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

Lab Sample ID: 400-232064-C-3-C MS ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0503		mg/L		101	75 - 125
Boron	0.025	J ^3+	0.100	0.141	^3+	mg/L		116	75 - 125
Cadmium	0.0050	^3+ B ^2	0.0500	0.0581	^3+	mg/L		106	75 - 125
Calcium	64	E B	5.00	70.0	E 4	mg/L		121	75 - 125
Chromium	ND		0.0500	0.0482		mg/L		96	75 - 125
Cobalt	ND		0.0500	0.0503		mg/L		101	75 - 125
Lead	ND		0.0500	0.0497		mg/L		99	75 - 125
Lithium	ND		0.0500	0.0510		mg/L		102	75 - 125
Molybdenum	ND		0.0500	0.0505		mg/L		101	75 - 125
Selenium	ND		0.0500	0.0483		mg/L		97	75 - 125
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-232064-C-3-D MSD ^5
Matrix: Water
Analysis Batch: 609934

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 609673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0516		mg/L		103	75 - 125	1	20
Arsenic	0.0013		0.0500	0.0487		mg/L		95	75 - 125	3	20
Barium	0.076		0.0500	0.125		mg/L		97	75 - 125	4	20
Beryllium	ND		0.0500	0.0504		mg/L		101	75 - 125	0	20
Boron	0.025	J ^3+	0.100	0.135	^3+	mg/L		110	75 - 125	4	20
Cadmium	0.0050	^3+ B ^2	0.0500	0.0557	^3+	mg/L		101	75 - 125	4	20
Calcium	64	E B	5.00	69.1	4	mg/L		103	75 - 125	1	20
Chromium	ND		0.0500	0.0484		mg/L		97	75 - 125	0	20
Cobalt	ND		0.0500	0.0500		mg/L		100	75 - 125	1	20
Lead	ND		0.0500	0.0494		mg/L		99	75 - 125	1	20
Lithium	ND		0.0500	0.0523		mg/L		105	75 - 125	3	20
Molybdenum	ND		0.0500	0.0467		mg/L		93	75 - 125	8	20
Selenium	ND		0.0500	0.0487		mg/L		97	75 - 125	1	20
Thallium	ND		0.0100	0.00996		mg/L		100	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-609445/14-A
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		01/22/23 10:25	01/22/23 16:06	1

Lab Sample ID: LCS 400-609445/15-A
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

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

Lab Sample ID: 400-232067-D-1-B MS
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00188		mg/L		93	80 - 120

Lab Sample ID: 400-232067-D-1-C MSD
Matrix: Water
Analysis Batch: 609455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 609445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00183		mg/L		91	80 - 120	3	20

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

Lab Sample ID: MB 400-609715/1
Matrix: Water
Analysis Batch: 609715

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			01/24/23 14:36	1

Lab Sample ID: LCS 400-609715/2
Matrix: Water
Analysis Batch: 609715

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	266		mg/L		91	78 - 122

Lab Sample ID: 400-231967-B-1 DU
Matrix: Water
Analysis Batch: 609715

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	240		322	F3	mg/L		29	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-609463/13
Matrix: Water
Analysis Batch: 609463

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			01/22/23 20:24	1

Lab Sample ID: LCS 400-609463/14
Matrix: Water
Analysis Batch: 609463

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	50.2		mg/L		100	90 - 110

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

Lab Sample ID: MRL 400-609463/15
Matrix: Water
Analysis Batch: 609463

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	1.92	J	mg/L		96	50 - 150		

Lab Sample ID: 400-231847-D-1 MS
Matrix: Water
Analysis Batch: 609463

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	4.9		10.0	14.9		mg/L		100	73 - 120		

Lab Sample ID: 400-231847-D-1 MSD
Matrix: Water
Analysis Batch: 609463

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	4.9		10.0	14.5		mg/L		96	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-609544/9
Matrix: Water
Analysis Batch: 609544

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	0.070	mg/L			01/23/23 12:45	1

Lab Sample ID: LCS 400-609544/12
Matrix: Water
Analysis Batch: 609544

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	4.88		mg/L		98	90 - 110		

Lab Sample ID: MRL 400-609544/11
Matrix: Water
Analysis Batch: 609544

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	0.108		mg/L		108			

Lab Sample ID: 400-232063-B-1 MS
Matrix: Water
Analysis Batch: 609544

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	0.075	J	0.100	0.174		mg/L		98	75 - 125		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-232063-B-1 MSD
Matrix: Water
Analysis Batch: 609544

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	0.075	J	0.100	0.174		mg/L		98	75 - 125	0	4

Lab Sample ID: 400-232089-P-1 DU
Matrix: Water
Analysis Batch: 609544

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.88		0.885		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-609462/12
Matrix: Water
Analysis Batch: 609462

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			01/22/23 20:06	1

Lab Sample ID: LCS 400-609462/13
Matrix: Water
Analysis Batch: 609462

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	14.6		mg/L		98	90 - 110

Lab Sample ID: MRL 400-609462/14
Matrix: Water
Analysis Batch: 609462

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	4.20	J	mg/L		84	50 - 150

Lab Sample ID: 400-231847-D-1 MS
Matrix: Water
Analysis Batch: 609462

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	3.9	J	10.0	14.7		mg/L		108	77 - 128

Lab Sample ID: 400-231847-D-1 MSD
Matrix: Water
Analysis Batch: 609462

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	3.9	J	10.0	15.1		mg/L		111	77 - 128	2	5

Eurofins Pensacola
3355 McLem[illegible]ve
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible]Record

eurofins [illegible]vironment Testing [illegible]rica

Client Information	Sampler: Alana Neely	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-[illegible]202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:		N	N	X	X	X	X	X	X	X	X		
MW-D5-20230118	01/18/23	1525	G	Water	N	N	X	X	X	X	X	X	X	X		pH-9.98
MW-D6-20230118	01/18/23	1615	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.89
MW-D7-20230119	01/19/23	0930	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.33
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

AN AN AN

400-232065 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:
Relinquished by	Date/Time	Company	Received by: Date/Time: 1/21/23 923 Company
Relinquished by	Date/Time	Company	Received by: Date/Time Company
Relinquished by	Date/Time	Company	Received by: Date/Time Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.4°C IR10

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232065-1

Login Number: 232065
List Number: 1
Creator: Whitley, Adrian

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.	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	1.4°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 <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

Job ID: 400-232065-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-14-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

eurofins | Environment Testing

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

400-232065-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

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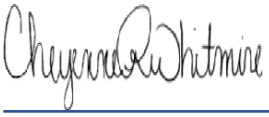
Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-232065-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-232065-2

Receipt
The samples were received on 1/21/2023 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 Prep Batch 160-598272: Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D5-20230118 (400-232065-1), MW-D6-20230118 (400-232065-2) and MW-D7-20230119 (400-232065-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 prep batch 160-598272: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D5-20230118 (400-232065-1), MW-D6-20230118 (400-232065-2), MW-D7-20230119 (400-232065-3), (LCS 160-598272/2-A), (LCSD 160-598272/3-A) and (MB 160-598272/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-598275: Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D5-20230118 (400-232065-1), MW-D6-20230118 (400-232065-2) and MW-D7-20230119 (400-232065-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 598275: The LCS/LCSD recovered at (LCS 131% / LCSD 129%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCS 160-598275/2-A) and (LCSD 160-598275/3-A)

Method 9320_Ra228: Gamma prep batch 160-598275: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D5-20230118 (400-232065-1), MW-D6-20230118 (400-232065-2), MW-D7-20230119 (400-232065-3), (LCS 160-598275/2-A), (LCSD 160-598275/3-A) and (MB 160-598275/1-A)

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

Method Summary

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

Job ID: 400-232065-2

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: 400-232065-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-232065-1	MW-D5-20230118	Water	01/18/23 15:25	01/21/23 09:23
400-232065-2	MW-D6-20230118	Water	01/18/23 16:15	01/21/23 09:23
400-232065-3	MW-D7-20230119	Water	01/19/23 09:30	01/21/23 09:23

Client Sample ID: MW-D5-20230118

Date Collected: 01/18/23 15:25
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.0979**		0.0637	0.0643	1.00	0.0869	pCi/L	01/26/23 09:36	02/21/23 17:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.6*		*30 - 110*	*01/26/23 09:36*	*02/21/23 17:54*	*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	0.207	U	0.276	0.277	1.00	0.462	pCi/L	01/26/23 09:50	02/01/23 12:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.6*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:04*	*1*
Y Carrier	*84.9*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:04*	*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	0.305	U	0.283	0.284	5.00	0.462	pCi/L		02/22/23 15:56	1

Client Sample ID: MW-D6-20230118

Date Collected: 01/18/23 16:15
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.0459	0.0459	1.00	0.0937	pCi/L	01/26/23 09:36	02/21/23 17:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*01/26/23 09:36*	*02/21/23 17:54*	*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	0.234	U	0.324	0.325	1.00	0.544	pCi/L	01/26/23 09:50	02/01/23 12:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:04*	*1*
Y Carrier	*82.6*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:04*	*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	0.234	U	0.327	0.328	5.00	0.544	pCi/L		02/22/23 15:56	1

Client Sample ID: MW-D7-20230119

Date Collected: 01/19/23 09:30
Date Received: 01/21/23 09:23

Lab Sample ID: 400-232065-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0180	U	0.0533	0.0534	1.00	0.0992	pCi/L	01/26/23 09:36	02/21/23 17:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*01/26/23 09:36*	*02/21/23 17:54*	*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	0.332	U	0.306	0.307	1.00	0.482	pCi/L	01/26/23 09:50	02/01/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:05*	*1*
Y Carrier	*84.1*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:05*	*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	0.350	U	0.311	0.312	5.00	0.482	pCi/L		02/22/23 15:56	1

Definitions/Glossary

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

Job ID: 400-232065-2

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

Job ID: 400-232065-2

Client Sample ID: MW-D5-20230118

Lab Sample ID: 400-232065-1

Date Collected: 01/18/23 15:25

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598272	DJP	EET SL	01/26/23 09:36
Total/NA	Analysis	9315		1	601085	FLC	EET SL	02/21/23 17:54
Total/NA	Prep	PrecSep_0			598275	DJP	EET SL	01/26/23 09:50
Total/NA	Analysis	9320		1	598871	FLC	EET SL	02/01/23 12:04
Total/NA	Analysis	Ra226_Ra228		1	601217	SCB	EET SL	02/22/23 15:56

Client Sample ID: MW-D6-20230118

Lab Sample ID: 400-232065-2

Date Collected: 01/18/23 16:15

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598272	DJP	EET SL	01/26/23 09:36
Total/NA	Analysis	9315		1	601085	FLC	EET SL	02/21/23 17:54
Total/NA	Prep	PrecSep_0			598275	DJP	EET SL	01/26/23 09:50
Total/NA	Analysis	9320		1	598871	FLC	EET SL	02/01/23 12:04
Total/NA	Analysis	Ra226_Ra228		1	601217	SCB	EET SL	02/22/23 15:56

Client Sample ID: MW-D7-20230119

Lab Sample ID: 400-232065-3

Date Collected: 01/19/23 09:30

Matrix: Water

Date Received: 01/21/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			598272	DJP	EET SL	01/26/23 09:36
Total/NA	Analysis	9315		1	601085	FLC	EET SL	02/21/23 17:54
Total/NA	Prep	PrecSep_0			598275	DJP	EET SL	01/26/23 09:50
Total/NA	Analysis	9320		1	598871	FLC	EET SL	02/01/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	601217	SCB	EET SL	02/22/23 15:56

Laboratory References:

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

QC Association Summary

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

Job ID: 400-232065-2

Rad

Prep Batch: 598272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	PrecSep-21	
400-232065-2	MW-D6-20230118	Total/NA	Water	PrecSep-21	
400-232065-3	MW-D7-20230119	Total/NA	Water	PrecSep-21	
MB 160-598272/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-598272/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-598272/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 598275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-232065-1	MW-D5-20230118	Total/NA	Water	PrecSep_0	
400-232065-2	MW-D6-20230118	Total/NA	Water	PrecSep_0	
400-232065-3	MW-D7-20230119	Total/NA	Water	PrecSep_0	
MB 160-598275/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-598275/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-598275/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-598272/1-A
Matrix: Water
Analysis Batch: 601085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598272

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02830	U	0.0410	0.0411	1.00	0.0968	pCi/L	01/26/23 09:36	02/21/23 17:54	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*30 - 110*	*01/26/23 09:36*	*02/21/23 17:54*	*1*

Lab Sample ID: LCS 160-598272/2-A
Matrix: Water
Analysis Batch: 601085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598272

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.88		1.10	1.00	0.0974	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*101*		*30 - 110*

Lab Sample ID: LCSD 160-598272/3-A
Matrix: Water
Analysis Batch: 601085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598272

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.61		1.07	1.00	0.0992	pCi/L	94	75 - 125	0.13	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*105*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-598275/1-A
Matrix: Water
Analysis Batch: 598871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598275

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06539	U	0.232	0.232	1.00	0.461	pCi/L	01/26/23 09:50	02/01/23 12:04	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:04*	*1*
Y Carrier	*85.6*		*30 - 110*	*01/26/23 09:50*	*02/01/23 12:04*	*1*

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

Lab Sample ID: LCS 160-598275/2-A
Matrix: Water
Analysis Batch: 598871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598275

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.23	10.75		1.38	1.00	0.513	pCi/L	131	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*101*		*30 - 110*
Y Carrier	*85.6*		*30 - 110*

Lab Sample ID: LCSD 160-598275/3-A
Matrix: Water
Analysis Batch: 598871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 598275

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.23	10.62		1.34	1.00	0.390	pCi/L	129	75 - 125	0.05	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*105*		*30 - 110*
Y Carrier	*86.4*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible]ve
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible]Record

eurofins [illegible]vironment Testing [illegible]rica

Client Information	Sampler: Alana Neely	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:

Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:	
City: Kennesaw	TAT Requested (days): STANDARD	
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No	
Phone: 678-[illegible]202-9569	PO #: Purchase Order not required	
Email: dyifru@geosyntec.com	WO #:	
Project Name: Crisp County CCR	Project #: 40007960	
Site: Crisp County Power	SSOW#:	

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:		N	N	X	X	X	X	X	X	X	X		
MW-D5-20230118	01/18/23	1525	G	Water	N	N	X	X	X	X	X	X	X	X		pH-9.98
MW-D6-20230118	01/18/23	1615	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.89
MW-D7-20230119	01/19/23	0930	G	Water	N	N	X	X	X	X	X	X	X	X		pH-7.33
				Water												
				Water												
				Water												
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AN AN AN

400-232065 COC

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:
Relinquished by	Date/Time	Company	Received by: Date/Time: 1/21/23 923 Company
Relinquished by	Date/Time	Company	Received by: Date/Time Company
Relinquished by	Date/Time	Company	Received by: Date/Time Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 1.4°C IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232065-2

Login Number: 232065
List Number: 1
Creator: Whitley, Adrian

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.	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	1.4°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-232065-2

Login Number: 232065
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 01/24/23 11:47 AM

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

Accreditation/Certification Summary

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

Job ID: 400-232065-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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

400-233983-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

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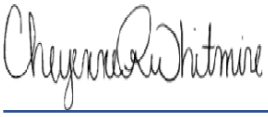
Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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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Revision 1

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job Narrative
400-233983-1

Receipt
The samples were received on 3/3/2023 9:28 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 0.7º C.

Metals
Method 6020: The ICV for batch 400-615418 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020: The serial dilution performed for the following sample associated with batch 400-615418 was outside control limits: (400-233956-E-1-D SD ^25).

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-615219 and analytical batch 400-615418 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020: The method blank for preparation batch 400-615219 and analytical batch 400-615418 contained Boron, Cobalt, and Molybdenum above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The post digestion spike % recovery for Chromium associated with batch 400-615418 was outside of control limits. The associated sample is: (400-233956-E-1-D PDS ^5).

Method 6020: The ICV for batch 400-615556 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-615101 was outside control limits. Sample non-homogeneity is suspected.

Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-615102 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-616381 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 3/15/2023. The report (revision 1) is being revised due to: QC missing from MB and LCS.

Metals
Method 6020: There is evidence for chromium contamination in the following samples MW-D8-20230302 (400-233983-1), MW-D9-20230302 (400-233983-2) and DUP-5-20230301 (400-233983-3). The lab has a high degree of confidence that the contamination was introduced during the digestate dilution step prior to analysis. Based on recoveries of the associated QC the high bias in the result is approximately 0.15mg/L. Subtracting the reported result by this value would give a reasonable estimation of the amount of chromium in the samples and QC.

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

Detection Summary

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

Job ID: 400-233983-1

Client Sample ID: MW-D8-20230302 — Lab Sample ID: 400-233983-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.067	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	79		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0021	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0022	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0034		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	240		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
Sulfate	24		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9-20230302 — Lab Sample ID: 400-233983-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.0012	mg/L	5		6020	Total Recoverable
Barium	0.042		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.022	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	58		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0027		0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0031	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0029		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00019	J	0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	190		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.087	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	5.1		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.54				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-5-20230301 — Lab Sample ID: 400-233983-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0090		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.025	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-5-20230301 (Continued)

Lab Sample ID: 400-233983-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0023	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0026	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0023		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Mercury	0.00020		0.00020	0.00015	mg/L	1		7470A	Total/NA
Total Dissolved Solids	110		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	0.098	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-233983-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-233983-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-233983-1	MW-D8-20230302	Water	03/02/23 10:45	03/03/23 09:28
400-233983-2	MW-D9-20230302	Water	03/02/23 08:35	03/03/23 09:28
400-233983-3	DUP-5-20230301	Water	03/01/23 12:00	03/03/23 09:28

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

Job ID: 400-233983-1

Client Sample ID: MW-D8-20230302

Date Collected: 03/02/23 10:45
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:14	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:14	5
Barium	**0.055**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:14	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:14	5
Boron	**0.067**	**B**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:14	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:14	5
Calcium	**79**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:14	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:14	5
Cobalt	**0.0021**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:14	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:14	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:14	5
Molybdenum	**0.0022**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:14	5
Selenium	**0.0034**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:14	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:14	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			03/06/23 11:09	1
Chloride (SM 4500 Cl- E)	**6.0**		2.0	1.4	mg/L			03/04/23 16:24	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			03/14/23 14:04	1
Sulfate (SM 4500 SO4 E)	**24**		5.0	1.4	mg/L			03/04/23 17:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.21**				SU			03/02/23 09:45	1

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

Job ID: 400-233983-1

Client Sample ID: MW-D9-20230302

Date Collected: 03/02/23 08:35
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:17	5
Arsenic	**0.0014**		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:17	5
Barium	**0.042**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:17	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:17	5
Boron	**0.022**	**J**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:17	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:17	5
Calcium	**58**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:17	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:17	5
Cobalt	**0.0027**		0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:17	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:17	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:17	5
Molybdenum	**0.0031**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:17	5
Selenium	**0.0029**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:17	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:17	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00019**	**J**	0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**190**		5.0	5.0	mg/L			03/06/23 11:02	1
Chloride (SM 4500 Cl- E)	**2.1**		2.0	1.4	mg/L			03/04/23 16:25	1
Fluoride (SM 4500 F C)	**0.087**	**J**	0.10	0.070	mg/L			03/14/23 14:07	1
Sulfate (SM 4500 SO4 E)	**5.1**		5.0	1.4	mg/L			03/04/23 17:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.54**				SU			03/02/23 07:35	1

Client Sample ID: DUP-5-20230301

Lab Sample ID: 400-233983-3

Date Collected: 03/01/23 12:00

Matrix: Water

Date Received: 03/03/23 09:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:21	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:21	5
Barium	**0.0090**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:21	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:21	5
Boron	**0.025**	**J**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:21	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:21	5
Calcium	**35**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:21	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:21	5
Cobalt	**0.0023**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:21	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:21	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:21	5
Molybdenum	**0.0026**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:21	5
Selenium	**0.0023**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:21	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:21	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00020**		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**110**		5.0	5.0	mg/L			03/06/23 11:02	1
Chloride (SM 4500 Cl- E)	**4.7**		2.0	1.4	mg/L			03/04/23 16:25	1
Fluoride (SM 4500 F C)	**0.098**	**J**	0.10	0.070	mg/L			03/14/23 14:10	1
Sulfate (SM 4500 SO4 E)	**3.1**	**J**	5.0	1.4	mg/L			03/04/23 17:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			03/02/23 11:00	1

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
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

Job ID: 400-233983-1

Client Sample ID: MW-D8-20230302
Date Collected: 03/02/23 10:45
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:14
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:48
Total/NA	Analysis	SM 2540C		1	615102	VB	EET PEN	03/06/23 11:09
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:24
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:04
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:11
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/02/23 09:45

Client Sample ID: MW-D9-20230302
Date Collected: 03/02/23 08:35
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:17
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:50
Total/NA	Analysis	SM 2540C		1	615101	VB	EET PEN	03/06/23 11:02
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:25
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:07
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:12
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/02/23 07:35

Client Sample ID: DUP-5-20230301
Date Collected: 03/01/23 12:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:21
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:51
Total/NA	Analysis	SM 2540C		1	615101	VB	EET PEN	03/06/23 11:02
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:25
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:10
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:12
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/02/23 11:00

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 614833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	7470A	
400-233983-2	MW-D9-20230302	Total/NA	Water	7470A	
400-233983-3	DUP-5-20230301	Total/NA	Water	7470A	
MB 400-614833/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-614833/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-233985-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-233985-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 615020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	7470A	614833
400-233983-2	MW-D9-20230302	Total/NA	Water	7470A	614833
400-233983-3	DUP-5-20230301	Total/NA	Water	7470A	614833
MB 400-614833/14-A	Method Blank	Total/NA	Water	7470A	614833
LCS 400-614833/15-A	Lab Control Sample	Total/NA	Water	7470A	614833
400-233985-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	614833
400-233985-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	614833

Prep Batch: 615219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total Recoverable	Water	3005A	
400-233983-2	MW-D9-20230302	Total Recoverable	Water	3005A	
400-233983-3	DUP-5-20230301	Total Recoverable	Water	3005A	
MB 400-615219/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 400-615219/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-615219/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 400-615219/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-233956-E-1-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-233956-E-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 615418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total Recoverable	Water	6020	615219
400-233983-2	MW-D9-20230302	Total Recoverable	Water	6020	615219
400-233983-3	DUP-5-20230301	Total Recoverable	Water	6020	615219
MB 400-615219/1-A ^5	Method Blank	Total Recoverable	Water	6020	615219
LCS 400-615219/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	615219
400-233956-E-1-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	615219
400-233956-E-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	615219

Analysis Batch: 615556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-615219/1-A	Method Blank	Total Recoverable	Water	6020	615219
LCS 400-615219/2-A	Lab Control Sample	Total Recoverable	Water	6020	615219

General Chemistry

Analysis Batch: 614959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	SM 4500 Cl- E	
400-233983-2	MW-D9-20230302	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 614959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-3	DUP-5-20230301	Total/NA	Water	SM 4500 Cl- E	
MB 400-614959/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-614959/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-614959/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-233828-F-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-233828-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 614960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	SM 4500 SO4 E	
400-233983-2	MW-D9-20230302	Total/NA	Water	SM 4500 SO4 E	
400-233983-3	DUP-5-20230301	Total/NA	Water	SM 4500 SO4 E	
MB 400-614960/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-614960/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-614960/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-233983-1 MS	MW-D8-20230302	Total/NA	Water	SM 4500 SO4 E	
400-233983-1 MSD	MW-D8-20230302	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 615101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-2	MW-D9-20230302	Total/NA	Water	SM 2540C	
400-233983-3	DUP-5-20230301	Total/NA	Water	SM 2540C	
MB 400-615101/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-615101/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-233983-2 DU	MW-D9-20230302	Total/NA	Water	SM 2540C	

Analysis Batch: 615102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	SM 2540C	
MB 400-615102/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-615102/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-234042-C-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 616381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	SM 4500 F C	
400-233983-2	MW-D9-20230302	Total/NA	Water	SM 4500 F C	
400-233983-3	DUP-5-20230301	Total/NA	Water	SM 4500 F C	
MB 400-616381/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-616381/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-616381/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
670-15592-B-12 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
670-15592-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-233994-A-3 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 615244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	Field Sampling	
400-233983-2	MW-D9-20230302	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 615244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-3	DUP-5-20230301	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-615219/1-A
Matrix: Water
Analysis Batch: 615556

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0025	0.0010	mg/L		03/07/23 08:44	03/08/23 12:42	5
Selenium	ND		0.0013	0.00082	mg/L		03/07/23 08:44	03/08/23 12:42	5

Lab Sample ID: MB 400-615219/1-A ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 14:29	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 14:29	5
Barium	ND		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 14:29	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 14:29	5
Boron	0.0191	J	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 14:29	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 14:29	5
Calcium	ND		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 14:29	5
Chromium	0.153		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 14:29	5
Cobalt	0.00198	J	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 14:29	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 14:29	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 14:29	5
Molybdenum	0.00499	J	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 14:29	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 14:29	5

Lab Sample ID: LCS 400-615219/2-A
Matrix: Water
Analysis Batch: 615556

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.0500	0.0516		mg/L		103	80 - 120

Lab Sample ID: LCS 400-615219/2-A ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0476		mg/L		95	80 - 120
Arsenic	0.0500	0.0442		mg/L		88	80 - 120
Barium	0.0500	0.0487		mg/L		97	80 - 120
Beryllium	0.0500	0.0446		mg/L		89	80 - 120
Boron	0.100	0.102		mg/L		102	80 - 120
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Calcium	5.00	4.54		mg/L		91	80 - 120
Chromium	0.0500	0.190	*+	mg/L		381	80 - 120
Cobalt	0.0500	0.0479		mg/L		96	80 - 120
Lead	0.0500	0.0451		mg/L		90	80 - 120
Lithium	0.0500	0.0448		mg/L		90	80 - 120
Molybdenum	0.0500	0.0495		mg/L		99	80 - 120
Selenium	0.0500	0.0449		mg/L		90	80 - 120
Thallium	0.0100	0.00899		mg/L		90	80 - 120

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

Lab Sample ID: 400-233956-E-1-E MS ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0520		mg/L		104	75 - 125
Arsenic	0.0012	J	0.0500	0.0497		mg/L		99	75 - 125
Barium	0.34		0.0500	0.393	4	mg/L		109	75 - 125
Beryllium	ND		0.0500	0.0508		mg/L		102	75 - 125
Boron	0.083	B	0.100	0.199		mg/L		116	75 - 125
Cadmium	ND		0.0500	0.0510		mg/L		102	75 - 125
Calcium	93		5.00	96.5	4	mg/L		69	75 - 125
Chromium	0.17	F1	0.0500	0.172	F1	mg/L		12	75 - 125
Cobalt	0.0024	J	0.0500	0.0517		mg/L		99	75 - 125
Lead	ND		0.0500	0.0504		mg/L		101	75 - 125
Lithium	0.0079		0.0500	0.0556		mg/L		95	75 - 125
Molybdenum	0.0044	J	0.0500	0.0542		mg/L		100	75 - 125
Selenium	0.0042		0.0500	0.0504		mg/L		92	75 - 125
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-233956-E-1-F MSD ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0525		mg/L		105	75 - 125	1	20
Arsenic	0.0012	J	0.0500	0.0496		mg/L		99	75 - 125	0	20
Barium	0.34		0.0500	0.393	4	mg/L		109	75 - 125	0	20
Beryllium	ND		0.0500	0.0505		mg/L		101	75 - 125	1	20
Boron	0.083	B	0.100	0.181		mg/L		98	75 - 125	9	20
Cadmium	ND		0.0500	0.0518		mg/L		104	75 - 125	1	20
Calcium	93		5.00	97.5	4	mg/L		88	75 - 125	1	20
Chromium	0.17	F1	0.0500	0.203	F1	mg/L		73	75 - 125	16	20
Cobalt	0.0024	J	0.0500	0.0518		mg/L		99	75 - 125	0	20
Lead	ND		0.0500	0.0512		mg/L		102	75 - 125	2	20
Lithium	0.0079		0.0500	0.0609		mg/L		106	75 - 125	9	20
Molybdenum	0.0044	J	0.0500	0.0537		mg/L		98	75 - 125	1	20
Selenium	0.0042		0.0500	0.0516		mg/L		95	75 - 125	2	20
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-614833/14-A
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:35	1

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

Lab Sample ID: LCS 400-614833/15-A
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.00109		mg/L		108	80 - 120		

Lab Sample ID: 400-233985-C-1-B MS
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 614833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00201	0.00209		mg/L		104	80 - 120		

Lab Sample ID: 400-233985-C-1-C MSD
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 614833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00208		mg/L		103	80 - 120	0	20

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

Lab Sample ID: MB 400-615101/1
Matrix: Water
Analysis Batch: 615101

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			03/06/23 11:02	1

Lab Sample ID: LCS 400-615101/2
Matrix: Water
Analysis Batch: 615101

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	314		mg/L		107	78 - 122		

Lab Sample ID: 400-233983-2 DU
Matrix: Water
Analysis Batch: 615101

Client Sample ID: MW-D9-20230302
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	190			140	F3	mg/L				29	5

Lab Sample ID: MB 400-615102/1
Matrix: Water
Analysis Batch: 615102

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			03/06/23 11:09	1

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

Lab Sample ID: LCS 400-615102/2
Matrix: Water
Analysis Batch: 615102

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	310		mg/L		106	78 - 122		

Lab Sample ID: 400-234042-C-5 DU
Matrix: Water
Analysis Batch: 615102

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	960			1020	F3	mg/L				6	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-614959/13
Matrix: Water
Analysis Batch: 614959

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			03/04/23 16:14	1

Lab Sample ID: LCS 400-614959/14
Matrix: Water
Analysis Batch: 614959

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	51.3		mg/L		103	90 - 110		

Lab Sample ID: MRL 400-614959/15
Matrix: Water
Analysis Batch: 614959

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	2.23		mg/L		111	50 - 150		

Lab Sample ID: 400-233828-F-1 MS
Matrix: Water
Analysis Batch: 614959

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	5.3		10.0	14.9		mg/L		96	73 - 120		

Lab Sample ID: 400-233828-F-1 MSD
Matrix: Water
Analysis Batch: 614959

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	5.3		10.0	15.4		mg/L		101	73 - 120	4	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-616381/10
Matrix: Water
Analysis Batch: 616381

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	0.070	mg/L			03/14/23 13:45	1

Lab Sample ID: LCS 400-616381/12
Matrix: Water
Analysis Batch: 616381

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	4.96		mg/L		99	90 - 110		

Lab Sample ID: MRL 400-616381/11
Matrix: Water
Analysis Batch: 616381

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		102			

Lab Sample ID: 670-15592-B-12 MS
Matrix: Water
Analysis Batch: 616381

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	0.75	F1	0.200	0.818	F1	mg/L		31	75 - 125		

Lab Sample ID: 670-15592-B-12 MSD
Matrix: Water
Analysis Batch: 616381

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	0.75	F1	0.200	0.818	F1	mg/L		31	75 - 125	0	4

Lab Sample ID: 400-233994-A-3 DU
Matrix: Water
Analysis Batch: 616381

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.12			0.124		mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-614960/12
Matrix: Water
Analysis Batch: 614960

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			03/04/23 17:02	1

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

Lab Sample ID: LCS 400-614960/13
Matrix: Water
Analysis Batch: 614960

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	16.5		mg/L		110	90 - 110

Lab Sample ID: MRL 400-614960/14
Matrix: Water
Analysis Batch: 614960

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	4.92	J	mg/L		98	50 - 150

Lab Sample ID: 400-233983-1 MS
Matrix: Water
Analysis Batch: 614960

Client Sample ID: MW-D8-20230302
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	24		10.0	34.4		mg/L		107	77 - 128

Lab Sample ID: 400-233983-1 MSD
Matrix: Water
Analysis Batch: 614960

Client Sample ID: MW-D8-20230302
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	24		10.0	34.5		mg/L		109	77 - 128	0	5

Eurofins Pensacola
3355 McLem[illegible] ve
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

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Client Information	Sampler: Kendall Brome	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: (253) 303-1460	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note
			Preservation Code:													
MW-D8-20230302	03/02/23	1045	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.21
MW-D9-20230302	03/02/23	0835	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.54
DUP-5-20230301	03/01/23	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

KB KB KB

400-233983 COC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Kendall Brome	03/02/2023 1325	Geosyntec	KL	3/3/23 9:28	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.7 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-233983-1

Login Number: 233983
List Number: 1
Creator: Whitley, Adrian

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.	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	0.7°C IR8
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

Job ID: 400-233983-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-31-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dawit Yifru
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Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Crisp County Power - Rads

JOB NUMBER

400-233983-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

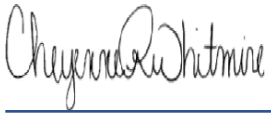
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-233983-2

Job ID: 400-233983-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-233983-2

Receipt
The samples were received on 3/3/2023 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-602832. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D8-20230302 (400-233983-1), MW-D9-20230302 (400-233983-2), DUP-5-20230301 (400-233983-3), (LCS 160-602832/2-A), (LCSD 160-602832/25-A) and (MB 160-602832/1-A)

Method 9320_Ra228: Radium-228 batch 602838. The LCS/LCSD recovered at (143% / 130%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS/LCSD are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS/LCSD pass, no further action is required (LCS 160-602838/2-A) and (LCSD 160-602838/25-A)

Method 9320_Ra228: Radium-228 batch 602838. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D8-20230302 (400-233983-1), MW-D9-20230302 (400-233983-2), DUP-5-20230301 (400-233983-3), (LCS 160-602838/2-A), (LCSD 160-602838/25-A) and (MB 160-602838/1-A)

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

Method Summary

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

Job ID: 400-233983-2

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 - Rads

Job ID: 400-233983-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-233983-1	MW-D8-20230302	Water	03/02/23 10:45	03/03/23 09:28
400-233983-2	MW-D9-20230302	Water	03/02/23 08:35	03/03/23 09:28
400-233983-3	DUP-5-20230301	Water	03/01/23 12:00	03/03/23 09:28

Client Sample Results

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

Job ID: 400-233983-2

Client Sample ID: MW-D8-20230302

Date Collected: 03/02/23 10:45
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0327	U	0.0518	0.0518	1.00	0.0900	pCi/L	03/08/23 12:16	04/03/23 15:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:07*	*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	**0.590**		0.358	0.362	1.00	0.520	pCi/L	03/08/23 13:13	03/23/23 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:01*	*1*
Y Carrier	*81.9*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:01*	*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	**0.622**		0.362	0.366	5.00	0.520	pCi/L		04/03/23 17:14	1

Client Sample ID: MW-D9-20230302

Date Collected: 03/02/23 08:35
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0541	U	0.0538	0.0540	1.00	0.0816	pCi/L	03/08/23 12:16	04/03/23 15:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:07*	*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	0.325	U	0.321	0.322	1.00	0.515	pCi/L	03/08/23 13:13	03/23/23 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:01*	*1*
Y Carrier	*85.6*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:01*	*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	0.379	U	0.325	0.326	5.00	0.515	pCi/L		04/03/23 17:14	1

Client Sample ID: DUP-5-20230301

Date Collected: 03/01/23 12:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233983-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0977	U	0.0729	0.0734	1.00	0.104	pCi/L	03/08/23 12:16	04/03/23 15:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:08*	*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	0.205	U	0.314	0.315	1.00	0.533	pCi/L	03/08/23 13:13	03/23/23 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:03*	*1*
Y Carrier	*81.5*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:03*	*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	0.303	U	0.322	0.323	5.00	0.533	pCi/L		04/03/23 17:14	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 400-233983-2
Project/Site: Crisp County Power - Rads

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 - Rads

Job ID: 400-233983-2

Client Sample ID: MW-D8-20230302

Lab Sample ID: 400-233983-1

Date Collected: 03/02/23 10:45

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605833	EMH	EET SL	04/03/23 15:07
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:01
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Client Sample ID: MW-D9-20230302

Lab Sample ID: 400-233983-2

Date Collected: 03/02/23 08:35

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605833	EMH	EET SL	04/03/23 15:07
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:01
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Client Sample ID: DUP-5-20230301

Lab Sample ID: 400-233983-3

Date Collected: 03/01/23 12:00

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:08
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Laboratory References:

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

QC Association Summary

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

Job ID: 400-233983-2

Rad

Prep Batch: 602832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	PrecSep-21	
400-233983-2	MW-D9-20230302	Total/NA	Water	PrecSep-21	
400-233983-3	DUP-5-20230301	Total/NA	Water	PrecSep-21	
MB 160-602832/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602832/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-602832/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 602838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233983-1	MW-D8-20230302	Total/NA	Water	PrecSep_0	
400-233983-2	MW-D9-20230302	Total/NA	Water	PrecSep_0	
400-233983-3	DUP-5-20230301	Total/NA	Water	PrecSep_0	
MB 160-602838/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602838/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-602838/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602832/1-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602832

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.006515	U	0.0337	0.0337	1.00	0.0790	pCi/L	03/08/23 12:16	04/03/23 15:02	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:02*	*1*

Lab Sample ID: LCS 160-602832/2-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602832

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.49		1.18	1.00	0.124	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.4*		*30 - 110*

Lab Sample ID: LCSD 160-602832/25-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602832

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.17		1.15	1.00	0.0864	pCi/L	99	75 - 125	0.14	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602838/1-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602838

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6552		0.342	0.347	1.00	0.477	pCi/L	03/08/23 13:13	03/23/23 11:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 13:13*	*03/23/23 11:56*	*1*
Y Carrier	*83.0*		*30 - 110*	*03/08/23 13:13*	*03/23/23 11:56*	*1*

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

Lab Sample ID: LCS 160-602838/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602838

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.09	11.54		1.47	1.00	0.464	pCi/L	143	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.4*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Lab Sample ID: LCSD 160-602838/25-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602838

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.09	10.51		1.39	1.00	0.494	pCi/L	130	75 - 125	0.36	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*
Y Carrier	*80.7*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible] ve
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible] Record

eurofins [illegible]ronment Testing [illegible]rica

Client Information	Sampler: Kendall Brome	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: (253) 303-1460	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note
			Preservation Code:													
MW-D8-20230302	03/02/23	1045	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.21
MW-D9-20230302	03/02/23	0835	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.54
DUP-5-20230301	03/01/23	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

KB KB KB

400-233983 COC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Kendall Brome	03/02/2023 1325	Geosyntec	KL	3/3/23 9:28	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.7 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-233983-2

Login Number: 233983
List Number: 1
Creator: Whitley, Adrian

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.	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	0.7°C IR8
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
Job ID: 400-233983-2
Project/Site: Crisp County Power - Rads

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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

400-233985-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

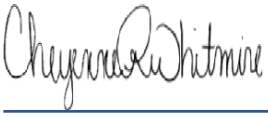
my EOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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

Table of Contents

Job Narrative
400-233985-1

Receipt
The samples were received on 3/3/2023 9:28 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 2.5º C.

Metals
Method 6020: The ICV for batch 400-615418 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020: The serial dilution performed for the following sample associated with batch 400-615418 was outside control limits: (400-233956-E-1-D SD ^25).

Method 6020: The post digestion spike % recovery for Chromium associated with batch 400-615418 was outside of control limits. The associated sample is: (400-233956-E-1-D PDS ^5).

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-615219 and analytical batch 400-615418 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020: The method blank for preparation batch 400-615219 and analytical batch 400-615418 contained Boron, Cobalt, and Molybdenum above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-615556 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-615101 was outside control limits. Sample non-homogeneity is suspected.

Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-615102 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-616381 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 3/15/2023. The report (revision 1) is being revised due to: QC missing from MB and LCS.

Metals
Method 6020: There is evidence for chromium contamination in the following samples MW-D5-20230301 (400-233985-1), MW-D6-20230301 (400-233985-2) and MW-D7-20230302 (400-233985-3). The lab has a high degree of confidence that the contamination was introduced during the digestate dilution step prior to analysis. Based on recoveries of the associated QC the high bias in the result is approximately 0.15mg/L. Subtracting the reported result by this value would give a reasonable estimation of the amount of chromium in the samples and QC.

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

Detection Summary

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

Job ID: 400-233985-1

Client Sample ID: MW-D5-20230301 — Lab Sample ID: 400-233985-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.019	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0024	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0027	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0031		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D6-20230301 — Lab Sample ID: 400-233985-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0089		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.020	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	34		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0021	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0027	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0023		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	150		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.098	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.73				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D7-20230302 — Lab Sample ID: 400-233985-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.077		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.043	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	64		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0031	J	0.010	0.0013	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-D7-20230302 (Continued)

Lab Sample ID: 400-233985-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.0010	J	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.074	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.47				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-233985-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-233985-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-233985-1	MW-D5-20230301	Water	03/01/23 16:55	03/03/23 09:28
400-233985-2	MW-D6-20230301	Water	03/01/23 16:00	03/03/23 09:28
400-233985-3	MW-D7-20230302	Water	03/02/23 08:45	03/03/23 09:28

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

Job ID: 400-233985-1

Client Sample ID: MW-D5-20230301

Date Collected: 03/01/23 16:55
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233985-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:24	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:24	5
Barium	**0.022**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:24	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:24	5
Boron	**0.019**	**J B**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:24	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:24	5
Calcium	**35**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:24	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:24	5
Cobalt	**0.0024**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:24	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:24	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:24	5
Molybdenum	**0.0027**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:24	5
Selenium	**0.0031**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:24	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:24	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:39	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			03/06/23 11:09	1
Chloride (SM 4500 Cl- E)	**5.9**		2.0	1.4	mg/L			03/04/23 16:21	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			03/14/23 14:13	1
Sulfate (SM 4500 SO4 E)	**3.8**	**J**	5.0	1.4	mg/L			03/04/23 17:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.93**				SU			03/01/23 15:55	1

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

Job ID: 400-233985-1

Client Sample ID: MW-D6-20230301

Date Collected: 03/01/23 16:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233985-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:27	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:27	5
Barium	**0.0089**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:27	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:27	5
Boron	**0.020**	**J**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:27	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:27	5
Calcium	**34**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:27	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:27	5
Cobalt	**0.0021**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:27	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:27	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:27	5
Molybdenum	**0.0027**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:27	5
Selenium	**0.0023**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:27	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:27	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		5.0	5.0	mg/L			03/06/23 11:09	1
Chloride (SM 4500 Cl- E)	**4.3**		2.0	1.4	mg/L			03/04/23 16:21	1
Fluoride (SM 4500 F C)	**0.098**	**J**	0.10	0.070	mg/L			03/14/23 14:15	1
Sulfate (SM 4500 SO4 E)	**3.4**	**J**	5.0	1.4	mg/L			03/04/23 17:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.73**				SU			03/01/23 15:00	1

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

Job ID: 400-233985-1

Client Sample ID: MW-D7-20230302

Lab Sample ID: 400-233985-3

Date Collected: 03/02/23 08:45

Matrix: Water

Date Received: 03/03/23 09:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:30	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:30	5
Barium	**0.077**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:30	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:30	5
Boron	**0.043**	**J**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:30	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:30	5
Calcium	**64**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:30	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:30	5
Cobalt	**0.0022**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:30	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:30	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:30	5
Molybdenum	**0.0031**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:30	5
Selenium	**0.0010**	**J**	0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:30	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:30	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		5.0	5.0	mg/L			03/06/23 11:02	1
Chloride (SM 4500 Cl- E)	**3.6**		2.0	1.4	mg/L			03/04/23 16:26	1
Fluoride (SM 4500 F C)	**0.074**	**J**	0.10	0.070	mg/L			03/14/23 14:18	1
Sulfate (SM 4500 SO4 E)	**4.1**	**J**	5.0	1.4	mg/L			03/04/23 17:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.47**				SU			03/02/23 07:45	1

Definitions/Glossary

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

Job ID: 400-233985-1

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
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

Client Sample ID: MW-D5-20230301

Lab Sample ID: 400-233985-1

Date Collected: 03/01/23 16:55

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:24
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:39
Total/NA	Analysis	SM 2540C		1	615102	VB	EET PEN	03/06/23 11:09
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:21
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:07
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/01/23 15:55

Client Sample ID: MW-D6-20230301

Lab Sample ID: 400-233985-2

Date Collected: 03/01/23 16:00

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:27
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:46
Total/NA	Analysis	SM 2540C		1	615102	VB	EET PEN	03/06/23 11:09
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:21
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:15
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:08
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/01/23 15:00

Client Sample ID: MW-D7-20230302

Lab Sample ID: 400-233985-3

Date Collected: 03/02/23 08:45

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:30
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:47
Total/NA	Analysis	SM 2540C		1	615101	VB	EET PEN	03/06/23 11:02
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:26
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:18
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:13
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/02/23 07:45

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 614833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	7470A	
400-233985-2	MW-D6-20230301	Total/NA	Water	7470A	
400-233985-3	MW-D7-20230302	Total/NA	Water	7470A	
MB 400-614833/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-614833/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-233985-1 MS	MW-D5-20230301	Total/NA	Water	7470A	
400-233985-1 MSD	MW-D5-20230301	Total/NA	Water	7470A	

Analysis Batch: 615020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	7470A	614833
400-233985-2	MW-D6-20230301	Total/NA	Water	7470A	614833
400-233985-3	MW-D7-20230302	Total/NA	Water	7470A	614833
MB 400-614833/14-A	Method Blank	Total/NA	Water	7470A	614833
LCS 400-614833/15-A	Lab Control Sample	Total/NA	Water	7470A	614833
400-233985-1 MS	MW-D5-20230301	Total/NA	Water	7470A	614833
400-233985-1 MSD	MW-D5-20230301	Total/NA	Water	7470A	614833

Prep Batch: 615219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total Recoverable	Water	3005A	
400-233985-2	MW-D6-20230301	Total Recoverable	Water	3005A	
400-233985-3	MW-D7-20230302	Total Recoverable	Water	3005A	
MB 400-615219/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 400-615219/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-615219/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 400-615219/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-233956-E-1-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-233956-E-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 615418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total Recoverable	Water	6020	615219
400-233985-2	MW-D6-20230301	Total Recoverable	Water	6020	615219
400-233985-3	MW-D7-20230302	Total Recoverable	Water	6020	615219
MB 400-615219/1-A ^5	Method Blank	Total Recoverable	Water	6020	615219
LCS 400-615219/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	615219
400-233956-E-1-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	615219
400-233956-E-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	615219

Analysis Batch: 615556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-615219/1-A	Method Blank	Total Recoverable	Water	6020	615219
LCS 400-615219/2-A	Lab Control Sample	Total Recoverable	Water	6020	615219

General Chemistry

Analysis Batch: 614959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	SM 4500 Cl- E	
400-233985-2	MW-D6-20230301	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 614959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-3	MW-D7-20230302	Total/NA	Water	SM 4500 Cl- E	
MB 400-614959/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-614959/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-614959/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-233828-F-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-233828-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 614960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	SM 4500 SO4 E	
400-233985-2	MW-D6-20230301	Total/NA	Water	SM 4500 SO4 E	
400-233985-3	MW-D7-20230302	Total/NA	Water	SM 4500 SO4 E	
MB 400-614960/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-614960/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-614960/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-233983-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-233983-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 615101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-3	MW-D7-20230302	Total/NA	Water	SM 2540C	
MB 400-615101/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-615101/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-233983-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 615102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	SM 2540C	
400-233985-2	MW-D6-20230301	Total/NA	Water	SM 2540C	
MB 400-615102/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-615102/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-233985-1 DU	MW-D5-20230301	Total/NA	Water	SM 2540C	

Analysis Batch: 616381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	SM 4500 F C	
400-233985-2	MW-D6-20230301	Total/NA	Water	SM 4500 F C	
400-233985-3	MW-D7-20230302	Total/NA	Water	SM 4500 F C	
MB 400-616381/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-616381/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-616381/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
670-15592-B-12 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
670-15592-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-233994-A-3 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 615244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	Field Sampling	
400-233985-2	MW-D6-20230301	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 615244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-3	MW-D7-20230302	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-615219/1-A
Matrix: Water
Analysis Batch: 615556

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0025	0.0010	mg/L		03/07/23 08:44	03/08/23 12:42	5
Selenium	ND		0.0013	0.00082	mg/L		03/07/23 08:44	03/08/23 12:42	5

Lab Sample ID: MB 400-615219/1-A ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 14:29	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 14:29	5
Barium	ND		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 14:29	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 14:29	5
Boron	0.0191	J	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 14:29	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 14:29	5
Calcium	ND		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 14:29	5
Chromium	0.153		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 14:29	5
Cobalt	0.00198	J	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 14:29	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 14:29	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 14:29	5
Molybdenum	0.00499	J	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 14:29	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 14:29	5

Lab Sample ID: LCS 400-615219/2-A
Matrix: Water
Analysis Batch: 615556

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.0500	0.0516		mg/L		103	80 - 120

Lab Sample ID: LCS 400-615219/2-A ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0476		mg/L		95	80 - 120
Arsenic	0.0500	0.0442		mg/L		88	80 - 120
Barium	0.0500	0.0487		mg/L		97	80 - 120
Beryllium	0.0500	0.0446		mg/L		89	80 - 120
Boron	0.100	0.102		mg/L		102	80 - 120
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Calcium	5.00	4.54		mg/L		91	80 - 120
Chromium	0.0500	0.190	*+	mg/L		381	80 - 120
Cobalt	0.0500	0.0479		mg/L		96	80 - 120
Lead	0.0500	0.0451		mg/L		90	80 - 120
Lithium	0.0500	0.0448		mg/L		90	80 - 120
Molybdenum	0.0500	0.0495		mg/L		99	80 - 120
Selenium	0.0500	0.0449		mg/L		90	80 - 120
Thallium	0.0100	0.00899		mg/L		90	80 - 120

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

Lab Sample ID: 400-233956-E-1-E MS ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0520		mg/L		104	75 - 125
Arsenic	0.0012	J	0.0500	0.0497		mg/L		99	75 - 125
Barium	0.34		0.0500	0.393	4	mg/L		109	75 - 125
Beryllium	ND		0.0500	0.0508		mg/L		102	75 - 125
Boron	0.083	B	0.100	0.199		mg/L		116	75 - 125
Cadmium	ND		0.0500	0.0510		mg/L		102	75 - 125
Calcium	93		5.00	96.5	4	mg/L		69	75 - 125
Chromium	0.17	F1	0.0500	0.172	F1	mg/L		12	75 - 125
Cobalt	0.0024	J	0.0500	0.0517		mg/L		99	75 - 125
Lead	ND		0.0500	0.0504		mg/L		101	75 - 125
Lithium	0.0079		0.0500	0.0556		mg/L		95	75 - 125
Molybdenum	0.0044	J	0.0500	0.0542		mg/L		100	75 - 125
Selenium	0.0042		0.0500	0.0504		mg/L		92	75 - 125
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-233956-E-1-F MSD ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0525		mg/L		105	75 - 125	1	20
Arsenic	0.0012	J	0.0500	0.0496		mg/L		99	75 - 125	0	20
Barium	0.34		0.0500	0.393	4	mg/L		109	75 - 125	0	20
Beryllium	ND		0.0500	0.0505		mg/L		101	75 - 125	1	20
Boron	0.083	B	0.100	0.181		mg/L		98	75 - 125	9	20
Cadmium	ND		0.0500	0.0518		mg/L		104	75 - 125	1	20
Calcium	93		5.00	97.5	E 4	mg/L		88	75 - 125	1	20
Chromium	0.17	F1	0.0500	0.203	F1	mg/L		73	75 - 125	16	20
Cobalt	0.0024	J	0.0500	0.0518		mg/L		99	75 - 125	0	20
Lead	ND		0.0500	0.0512		mg/L		102	75 - 125	2	20
Lithium	0.0079		0.0500	0.0609		mg/L		106	75 - 125	9	20
Molybdenum	0.0044	J	0.0500	0.0537		mg/L		98	75 - 125	1	20
Selenium	0.0042		0.0500	0.0516		mg/L		95	75 - 125	2	20
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-614833/14-A
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:35	1

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

Lab Sample ID: LCS 400-614833/15-A
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.00109		mg/L		108	80 - 120		

Lab Sample ID: 400-233985-1 MS
Matrix: Water
Analysis Batch: 615020

Client Sample ID: MW-D5-20230301
Prep Type: Total/NA
Prep Batch: 614833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00201	0.00209		mg/L		104	80 - 120		

Lab Sample ID: 400-233985-1 MSD
Matrix: Water
Analysis Batch: 615020

Client Sample ID: MW-D5-20230301
Prep Type: Total/NA
Prep Batch: 614833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00208		mg/L		103	80 - 120	0	20

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

Lab Sample ID: MB 400-615101/1
Matrix: Water
Analysis Batch: 615101

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			03/06/23 11:02	1

Lab Sample ID: LCS 400-615101/2
Matrix: Water
Analysis Batch: 615101

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	314		mg/L		107	78 - 122		

Lab Sample ID: 400-233983-B-2 DU
Matrix: Water
Analysis Batch: 615101

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			140	F3	mg/L				29	5

Lab Sample ID: MB 400-615102/1
Matrix: Water
Analysis Batch: 615102

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			03/06/23 11:09	1

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

Lab Sample ID: LCS 400-615102/2
Matrix: Water
Analysis Batch: 615102

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	310		mg/L		106	78 - 122		

Lab Sample ID: 400-233985-1 DU
Matrix: Water
Analysis Batch: 615102

Client Sample ID: MW-D5-20230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	120			146	F3	mg/L				16	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-614959/13
Matrix: Water
Analysis Batch: 614959

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			03/04/23 16:14	1

Lab Sample ID: LCS 400-614959/14
Matrix: Water
Analysis Batch: 614959

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	51.3		mg/L		103	90 - 110		

Lab Sample ID: MRL 400-614959/15
Matrix: Water
Analysis Batch: 614959

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	2.23		mg/L		111	50 - 150		

Lab Sample ID: 400-233828-F-1 MS
Matrix: Water
Analysis Batch: 614959

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	5.3		10.0	14.9		mg/L		96	73 - 120		

Lab Sample ID: 400-233828-F-1 MSD
Matrix: Water
Analysis Batch: 614959

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	5.3		10.0	15.4		mg/L		101	73 - 120	4	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-616381/10
Matrix: Water
Analysis Batch: 616381

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	0.070	mg/L			03/14/23 13:45	1

Lab Sample ID: LCS 400-616381/12
Matrix: Water
Analysis Batch: 616381

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	4.96		mg/L		99	90 - 110		

Lab Sample ID: MRL 400-616381/11
Matrix: Water
Analysis Batch: 616381

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		102			

Lab Sample ID: 670-15592-B-12 MS
Matrix: Water
Analysis Batch: 616381

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	0.75	F1	0.200	0.818	F1	mg/L		31	75 - 125		

Lab Sample ID: 670-15592-B-12 MSD
Matrix: Water
Analysis Batch: 616381

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	0.75	F1	0.200	0.818	F1	mg/L		31	75 - 125	0	4

Lab Sample ID: 400-233994-A-3 DU
Matrix: Water
Analysis Batch: 616381

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.12			0.124		mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-614960/12
Matrix: Water
Analysis Batch: 614960

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			03/04/23 17:02	1

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

Lab Sample ID: LCS 400-614960/13
Matrix: Water
Analysis Batch: 614960

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	16.5		mg/L		110	90 - 110

Lab Sample ID: MRL 400-614960/14
Matrix: Water
Analysis Batch: 614960

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	4.92	J	mg/L		98	50 - 150

Lab Sample ID: 400-233983-B-1 MS
Matrix: Water
Analysis Batch: 614960

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	24		10.0	34.4		mg/L		107	77 - 128

Lab Sample ID: 400-233983-B-1 MSD
Matrix: Water
Analysis Batch: 614960

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	24		10.0	34.5		mg/L		109	77 - 128	0	5

Eurofins Pensacola
[redacted] McLemore Drive
Pensacola [redacted]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custody Record

eurofins [redacted]vironment Testing [redacted]rica

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Dawit Yifru	Phone	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID			Job #
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: (253) 303-1460	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
MW-D5-20230301	03/01/23	1655	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 6.93
MW-D10-20230301	03/01/23	1600	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.73
MW-D7-20230302	03/02/23	0845	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.47
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

KB KB KB

400-233985 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kendall Brome	03/02/2023 1325	Geosyntec	EK	3/3/23 9128	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.5°C IR8

Ver 06 08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-233985-1

Login Number: 233985
List Number: 1
Creator: Whitley, Adrian

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.	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	2.5°C IR8
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

Job ID: 400-233985-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-31-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

eurofins | Environment Testing

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 - Rads

JOB NUMBER

400-233985-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

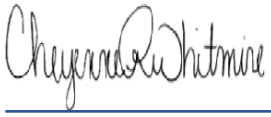
my EOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-233985-2

Job ID: 400-233985-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-233985-2

Receipt
The samples were received on 3/3/2023 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-602832. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D5-20230301 (400-233985-1), MW-D6-20230301 (400-233985-2), MW-D7-20230302 (400-233985-3), (LCS 160-602832/2-A), (LCSD 160-602832/25-A) and (MB 160-602832/1-A)

Method 9320_Ra228: Radium-228 batch 602838. The LCS/LCSD recovered at (143% / 130%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS/LCSD are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS/LCSD pass, no further action is required (LCS 160-602838/2-A) and (LCSD 160-602838/25-A)

Method 9320_Ra228: Radium-228 batch 602838. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-D5-20230301 (400-233985-1), MW-D6-20230301 (400-233985-2), MW-D7-20230302 (400-233985-3), (LCS 160-602838/2-A), (LCSD 160-602838/25-A) and (MB 160-602838/1-A)

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

Method Summary

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

Job ID: 400-233985-2

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 - Rads

Job ID: 400-233985-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-233985-1	MW-D5-20230301	Water	03/01/23 16:55	03/03/23 09:28
400-233985-2	MW-D6-20230301	Water	03/01/23 16:00	03/03/23 09:28
400-233985-3	MW-D7-20230302	Water	03/02/23 08:45	03/03/23 09:28

Client Sample ID: MW-D5-20230301

Date Collected: 03/01/23 16:55
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233985-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0286	U	0.0586	0.0587	1.00	0.105	pCi/L	03/08/23 12:16	04/03/23 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:09*	*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	**0.491**		0.303	0.306	1.00	0.435	pCi/L	03/08/23 13:13	03/23/23 12:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:04*	*1*
Y Carrier	*82.6*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:04*	*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**		0.309	0.312	5.00	0.435	pCi/L		04/03/23 17:14	1

Client Sample Results

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

Job ID: 400-233985-2

Client Sample ID: MW-D6-20230301

Date Collected: 03/01/23 16:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233985-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0217	U	0.0709	0.0710	1.00	0.132	pCi/L	03/08/23 12:16	04/03/23 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.9*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:09*	*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	**0.874**		0.418	0.426	1.00	0.551	pCi/L	03/08/23 13:13	03/23/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.9*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*1*
Y Carrier	*77.8*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*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	**0.896**		0.424	0.432	5.00	0.551	pCi/L		04/03/23 17:14	1

Client Sample Results

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

Job ID: 400-233985-2

Client Sample ID: MW-D7-20230302

Date Collected: 03/02/23 08:45
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233985-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00277	U	0.0562	0.0562	1.00	0.112	pCi/L	03/08/23 12:16	04/03/23 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:09*	*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	**0.658**		0.350	0.355	1.00	0.489	pCi/L	03/08/23 13:13	03/23/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*1*
Y Carrier	*81.9*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*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	**0.661**		0.354	0.359	5.00	0.489	pCi/L		04/03/23 17:14	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 400-233985-2
Project/Site: Crisp County Power - Rads

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 - Rads

Job ID: 400-233985-2

Client Sample ID: MW-D5-20230301

Lab Sample ID: 400-233985-1

Date Collected: 03/01/23 16:55

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:09
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:04
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Client Sample ID: MW-D6-20230301

Lab Sample ID: 400-233985-2

Date Collected: 03/01/23 16:00

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:09
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Client Sample ID: MW-D7-20230302

Lab Sample ID: 400-233985-3

Date Collected: 03/02/23 08:45

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:09
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Laboratory References:

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

QC Association Summary

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

Job ID: 400-233985-2

Rad

Prep Batch: 602832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	PrecSep-21	
400-233985-2	MW-D6-20230301	Total/NA	Water	PrecSep-21	
400-233985-3	MW-D7-20230302	Total/NA	Water	PrecSep-21	
MB 160-602832/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602832/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-602832/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 602838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233985-1	MW-D5-20230301	Total/NA	Water	PrecSep_0	
400-233985-2	MW-D6-20230301	Total/NA	Water	PrecSep_0	
400-233985-3	MW-D7-20230302	Total/NA	Water	PrecSep_0	
MB 160-602838/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602838/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-602838/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602832/1-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602832

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.006515	U	0.0337	0.0337	1.00	0.0790	pCi/L	03/08/23 12:16	04/03/23 15:02	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:02*	*1*

Lab Sample ID: LCS 160-602832/2-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602832

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.49		1.18	1.00	0.124	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.4*		*30 - 110*

Lab Sample ID: LCSD 160-602832/25-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602832

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.17		1.15	1.00	0.0864	pCi/L	99	75 - 125	0.14	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602838/1-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602838

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6552		0.342	0.347	1.00	0.477	pCi/L	03/08/23 13:13	03/23/23 11:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 13:13*	*03/23/23 11:56*	*1*
Y Carrier	*83.0*		*30 - 110*	*03/08/23 13:13*	*03/23/23 11:56*	*1*

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

Lab Sample ID: LCS 160-602838/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602838

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.09	11.54		1.47	1.00	0.464	pCi/L	143	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.4*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Lab Sample ID: LCSD 160-602838/25-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602838

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.09	10.51		1.39	1.00	0.494	pCi/L	130	75 - 125	0.36	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*
Y Carrier	*80.7*		*30 - 110*

Eurofins Pensacola
[redacted] McLemore Drive
Pensacola [redacted]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custody Record

eurofins [redacted]vironment Testing [redacted]rica

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Dawit Yifru	Phone	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin	400-112841-29334 1
Company: Geosyntec Consultants Inc	PWSID			Page: Page 1 of 1
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested			Job #
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: (253) 303-1460	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
MW-D5-20230301	03/01/23	1655	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 6.93
MW-D10-20230301	03/01/23	1600	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.73
MW-D7-20230302	03/02/23	0845	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.47
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

KB KB KB

400-233985 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kendall Brome	03/02/2023 1325	Geosyntec	EK	3/2/23 9128	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.6°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-233985-2

Login Number: 233985
List Number: 1
Creator: Whitley, Adrian

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.	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	2.5°C IR8
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
Job ID: 400-233985-2
Project/Site: Crisp County Power - Rads

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/21/2023 5:12:38 PM Revision 1

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-233994-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

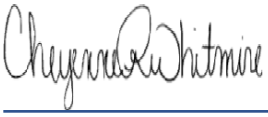
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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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Revision 1

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job Narrative
400-233994-1

Receipt
The samples were received on 3/3/2023 9:28 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 2.0º C.

Metals
Method 6020: The ICV for batch 400-615418 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020: The serial dilution performed for the following sample associated with batch 400-615418 was outside control limits: (400-233956-E-1-D SD ^25).

Method 6020: The post digestion spike % recovery for Chromium associated with batch 400-615418 was outside of control limits. The associated sample is: (400-233956-E-1-D PDS ^5).

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-615219 and analytical batch 400-615418 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020: The method blank for preparation batch 400-615219 and analytical batch 400-615418 contained Boron, Cobalt, and Molybdenum above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-615556 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-615102 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-616381 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 3/15/2023. The report (revision 1) is being revised due to: QC missing from MB and LCS.

Metals
Method 6020: There is evidence for chromium contamination in the following samples MW-U1-20230301 (400-233994-1), MW-U2-20230301 (400-233994-2) and MW-D4-20230301 (400-233994-3). The lab has a high degree of confidence that the contamination was introduced during the digestate dilution step prior to analysis. Based on recoveries of the associated QC the high bias in the result is approximately 0.15mg/L. Subtracting the reported result by this value would give a reasonable estimation of the amount of chromium in the samples and QC.

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

Detection Summary

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

Job ID: 400-233994-1

Client Sample ID: MW-U1-20230301 — Lab Sample ID: 400-233994-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0020	J	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.016	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.15		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0030	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0028		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.8	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.84				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U2-20230301 — Lab Sample ID: 400-233994-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.015	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	20		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0033	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0026		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.2		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	38		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.58				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D4-20230301 — Lab Sample ID: 400-233994-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.028		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.014	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	48		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.16		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0024	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Molybdenum	0.0038	J	0.010	0.0013	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-D4-20230301 (Continued)

Lab Sample ID: 400-233994-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.0036		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.6	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.49				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-233994-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-233994-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-233994-1	MW-U1-20230301	Water	03/01/23 12:50	03/03/23 09:28
400-233994-2	MW-U2-20230301	Water	03/01/23 14:30	03/03/23 09:28
400-233994-3	MW-D4-20230301	Water	03/01/23 15:00	03/03/23 09:28

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

Job ID: 400-233994-1

Client Sample ID: MW-U1-20230301

Date Collected: 03/01/23 12:50
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:33	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:33	5
Barium	**0.0020**	**J**	0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:33	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:33	5
Boron	**0.016**	**J B**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:33	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:33	5
Calcium	**35**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:33	5
Chromium	**0.15**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:33	5
Cobalt	**0.0022**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:33	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:33	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:33	5
Molybdenum	**0.0030**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:33	5
Selenium	**0.0028**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:33	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:33	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**180**		5.0	5.0	mg/L			03/06/23 11:09	1
Chloride (SM 4500 Cl- E)	**1.8**	**J**	2.0	1.4	mg/L			03/04/23 16:23	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			03/14/23 14:21	1
Sulfate (SM 4500 SO4 E)	**2.5**	**J**	5.0	1.4	mg/L			03/04/23 17:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.84**				SU			03/01/23 11:50	1

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

Job ID: 400-233994-1

Client Sample ID: MW-U2-20230301

Date Collected: 03/01/23 14:30
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:36	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:36	5
Barium	**0.015**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:36	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:36	5
Boron	**0.015**	**J**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:36	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:36	5
Calcium	**20**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:36	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:36	5
Cobalt	**0.0022**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:36	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:36	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:36	5
Molybdenum	**0.0033**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:36	5
Selenium	**0.0026**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:36	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:36	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 19:00	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			03/06/23 11:09	1
Chloride (SM 4500 Cl- E)	**2.2**		2.0	1.4	mg/L			03/04/23 16:23	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.070	mg/L			03/14/23 14:24	1
Sulfate (SM 4500 SO4 E)	**38**		5.0	1.4	mg/L			03/04/23 17:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.58**				SU			03/01/23 13:30	1

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

Job ID: 400-233994-1

Client Sample ID: MW-D4-20230301

Date Collected: 03/01/23 15:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 16:39	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 16:39	5
Barium	**0.028**		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 16:39	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 16:39	5
Boron	**0.014**	**J**	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 16:39	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 16:39	5
Calcium	**48**		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 16:39	5
Chromium	**0.16**		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 16:39	5
Cobalt	**0.0024**	**J**	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 16:39	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 16:39	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 16:39	5
Molybdenum	**0.0038**	**J**	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 16:39	5
Selenium	**0.0036**		0.0013	0.00082	mg/L		03/07/23 08:44	03/07/23 16:39	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 16:39	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**180**		5.0	5.0	mg/L			03/06/23 11:09	1
Chloride (SM 4500 Cl- E)	**2.0**		2.0	1.4	mg/L			03/04/23 16:24	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.070	mg/L			03/14/23 14:34	1
Sulfate (SM 4500 SO4 E)	**1.6**	**J**	5.0	1.4	mg/L			03/04/23 17:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.49**				SU			03/01/23 14:00	1

Definitions/Glossary

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

Job ID: 400-233994-1

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
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

Job ID: 400-233994-1

Client Sample ID: MW-U1-20230301
Date Collected: 03/01/23 12:50
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:33
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 19:02
Total/NA	Analysis	SM 2540C		1	615102	VB	EET PEN	03/06/23 11:09
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:23
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:21
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:08
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/01/23 11:50

Client Sample ID: MW-U2-20230301
Date Collected: 03/01/23 14:30
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:36
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 19:00
Total/NA	Analysis	SM 2540C		1	615102	VB	EET PEN	03/06/23 11:09
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:23
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:24
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:09
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/01/23 13:30

Client Sample ID: MW-D4-20230301
Date Collected: 03/01/23 15:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			615219	ARE	EET PEN	03/07/23 08:44 - 03/07/23 11:42 [1]
Total Recoverable	Analysis	6020		5	615418	NTH	EET PEN	03/07/23 16:39
Total/NA	Prep	7470A			614833	NET	EET PEN	03/05/23 10:15 - 03/05/23 14:56 [1]
Total/NA	Analysis	7470A		1	615020	NET	EET PEN	03/05/23 18:57
Total/NA	Analysis	SM 2540C		1	615102	VB	EET PEN	03/06/23 11:09
Total/NA	Analysis	SM 4500 Cl- E		1	614959	DN1	EET PEN	03/04/23 16:24
Total/NA	Analysis	SM 4500 F C		1	616381	JP	EET PEN	03/14/23 14:34
Total/NA	Analysis	SM 4500 SO4 E		1	614960	DN1	EET PEN	03/04/23 17:09
Total/NA	Analysis	Field Sampling		1	615244	S1K	EET PEN	03/01/23 14:00

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 614833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	7470A	
400-233994-2	MW-U2-20230301	Total/NA	Water	7470A	
400-233994-3	MW-D4-20230301	Total/NA	Water	7470A	
MB 400-614833/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-614833/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-233985-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-233985-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 615020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	7470A	614833
400-233994-2	MW-U2-20230301	Total/NA	Water	7470A	614833
400-233994-3	MW-D4-20230301	Total/NA	Water	7470A	614833
MB 400-614833/14-A	Method Blank	Total/NA	Water	7470A	614833
LCS 400-614833/15-A	Lab Control Sample	Total/NA	Water	7470A	614833
400-233985-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	614833
400-233985-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	614833

Prep Batch: 615219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total Recoverable	Water	3005A	
400-233994-2	MW-U2-20230301	Total Recoverable	Water	3005A	
400-233994-3	MW-D4-20230301	Total Recoverable	Water	3005A	
MB 400-615219/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 400-615219/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-615219/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 400-615219/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-233956-E-1-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-233956-E-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 615418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total Recoverable	Water	6020	615219
400-233994-2	MW-U2-20230301	Total Recoverable	Water	6020	615219
400-233994-3	MW-D4-20230301	Total Recoverable	Water	6020	615219
MB 400-615219/1-A ^5	Method Blank	Total Recoverable	Water	6020	615219
LCS 400-615219/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	615219
400-233956-E-1-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	615219
400-233956-E-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	615219

Analysis Batch: 615556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-615219/1-A	Method Blank	Total Recoverable	Water	6020	615219
LCS 400-615219/2-A	Lab Control Sample	Total Recoverable	Water	6020	615219

General Chemistry

Analysis Batch: 614959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	SM 4500 Cl- E	
400-233994-2	MW-U2-20230301	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 614959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-3	MW-D4-20230301	Total/NA	Water	SM 4500 Cl- E	
MB 400-614959/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-614959/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-614959/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-233828-F-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-233828-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 614960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	SM 4500 SO4 E	
400-233994-2	MW-U2-20230301	Total/NA	Water	SM 4500 SO4 E	
400-233994-3	MW-D4-20230301	Total/NA	Water	SM 4500 SO4 E	
MB 400-614960/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-614960/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-614960/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-233983-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-233983-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 615102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	SM 2540C	
400-233994-2	MW-U2-20230301	Total/NA	Water	SM 2540C	
400-233994-3	MW-D4-20230301	Total/NA	Water	SM 2540C	
MB 400-615102/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-615102/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-233985-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 616381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	SM 4500 F C	
400-233994-2	MW-U2-20230301	Total/NA	Water	SM 4500 F C	
400-233994-3	MW-D4-20230301	Total/NA	Water	SM 4500 F C	
MB 400-616381/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-616381/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-616381/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
670-15592-B-12 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
670-15592-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-233994-3 DU	MW-D4-20230301	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 615244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	Field Sampling	
400-233994-2	MW-U2-20230301	Total/NA	Water	Field Sampling	
400-233994-3	MW-D4-20230301	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-615219/1-A
Matrix: Water
Analysis Batch: 615556

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0025	0.0010	mg/L		03/07/23 08:44	03/08/23 12:42	5
Selenium	ND		0.0013	0.00082	mg/L		03/07/23 08:44	03/08/23 12:42	5

Lab Sample ID: MB 400-615219/1-A ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		03/07/23 08:44	03/07/23 14:29	5
Arsenic	ND		0.0013	0.0012	mg/L		03/07/23 08:44	03/07/23 14:29	5
Barium	ND		0.0025	0.00070	mg/L		03/07/23 08:44	03/07/23 14:29	5
Beryllium	ND		0.0020	0.00092	mg/L		03/07/23 08:44	03/07/23 14:29	5
Boron	0.0191	J	0.050	0.0012	mg/L		03/07/23 08:44	03/07/23 14:29	5
Cadmium	ND		0.0010	0.00065	mg/L		03/07/23 08:44	03/07/23 14:29	5
Calcium	ND		0.25	0.13	mg/L		03/07/23 08:44	03/07/23 14:29	5
Chromium	0.153		0.0025	0.0010	mg/L		03/07/23 08:44	03/07/23 14:29	5
Cobalt	0.00198	J	0.0025	0.00056	mg/L		03/07/23 08:44	03/07/23 14:29	5
Lead	ND		0.0013	0.00081	mg/L		03/07/23 08:44	03/07/23 14:29	5
Lithium	ND		0.0025	0.0049	mg/L		03/07/23 08:44	03/07/23 14:29	5
Molybdenum	0.00499	J	0.010	0.0013	mg/L		03/07/23 08:44	03/07/23 14:29	5
Thallium	ND		0.00050	0.00046	mg/L		03/07/23 08:44	03/07/23 14:29	5

Lab Sample ID: LCS 400-615219/2-A
Matrix: Water
Analysis Batch: 615556

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.0500	0.0516		mg/L		103	80 - 120

Lab Sample ID: LCS 400-615219/2-A ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0476		mg/L		95	80 - 120
Arsenic	0.0500	0.0442		mg/L		88	80 - 120
Barium	0.0500	0.0487		mg/L		97	80 - 120
Beryllium	0.0500	0.0446		mg/L		89	80 - 120
Boron	0.100	0.102		mg/L		102	80 - 120
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Calcium	5.00	4.54		mg/L		91	80 - 120
Chromium	0.0500	0.190	*+	mg/L		381	80 - 120
Cobalt	0.0500	0.0479		mg/L		96	80 - 120
Lead	0.0500	0.0451		mg/L		90	80 - 120
Lithium	0.0500	0.0448		mg/L		90	80 - 120
Molybdenum	0.0500	0.0495		mg/L		99	80 - 120
Selenium	0.0500	0.0449		mg/L		90	80 - 120
Thallium	0.0100	0.00899		mg/L		90	80 - 120

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

Lab Sample ID: 400-233956-E-1-E MS ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0520		mg/L		104	75 - 125
Arsenic	0.0012	J	0.0500	0.0497		mg/L		99	75 - 125
Barium	0.34		0.0500	0.393	4	mg/L		109	75 - 125
Beryllium	ND		0.0500	0.0508		mg/L		102	75 - 125
Boron	0.083	B	0.100	0.199		mg/L		116	75 - 125
Cadmium	ND		0.0500	0.0510		mg/L		102	75 - 125
Calcium	93		5.00	96.5	4	mg/L		69	75 - 125
Chromium	0.17	F1	0.0500	0.172	F1	mg/L		12	75 - 125
Cobalt	0.0024	J	0.0500	0.0517		mg/L		99	75 - 125
Lead	ND		0.0500	0.0504		mg/L		101	75 - 125
Lithium	0.0079		0.0500	0.0556		mg/L		95	75 - 125
Molybdenum	0.0044	J	0.0500	0.0542		mg/L		100	75 - 125
Selenium	0.0042		0.0500	0.0504		mg/L		92	75 - 125
Thallium	ND		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-233956-E-1-F MSD ^5
Matrix: Water
Analysis Batch: 615418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 615219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0525		mg/L		105	75 - 125	1	20
Arsenic	0.0012	J	0.0500	0.0496		mg/L		99	75 - 125	0	20
Barium	0.34		0.0500	0.393	4	mg/L		109	75 - 125	0	20
Beryllium	ND		0.0500	0.0505		mg/L		101	75 - 125	1	20
Boron	0.083	B	0.100	0.181		mg/L		98	75 - 125	9	20
Cadmium	ND		0.0500	0.0518		mg/L		104	75 - 125	1	20
Calcium	93		5.00	97.5	4	mg/L		88	75 - 125	1	20
Chromium	0.17	F1	0.0500	0.203	F1	mg/L		73	75 - 125	16	20
Cobalt	0.0024	J	0.0500	0.0518		mg/L		99	75 - 125	0	20
Lead	ND		0.0500	0.0512		mg/L		102	75 - 125	2	20
Lithium	0.0079		0.0500	0.0609		mg/L		106	75 - 125	9	20
Molybdenum	0.0044	J	0.0500	0.0537		mg/L		98	75 - 125	1	20
Selenium	0.0042		0.0500	0.0516		mg/L		95	75 - 125	2	20
Thallium	ND		0.0100	0.0101		mg/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-614833/14-A
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		03/05/23 10:15	03/05/23 18:35	1

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

Lab Sample ID: LCS 400-614833/15-A
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.00109		mg/L		108	80 - 120		

Lab Sample ID: 400-233985-C-1-B MS
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 614833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00201	0.00209		mg/L		104	80 - 120		

Lab Sample ID: 400-233985-C-1-C MSD
Matrix: Water
Analysis Batch: 615020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 614833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00208		mg/L		103	80 - 120	0	20

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

Lab Sample ID: MB 400-615102/1
Matrix: Water
Analysis Batch: 615102

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			03/06/23 11:09	1

Lab Sample ID: LCS 400-615102/2
Matrix: Water
Analysis Batch: 615102

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	310		mg/L		106	78 - 122		

Lab Sample ID: 400-233985-B-1 DU
Matrix: Water
Analysis Batch: 615102

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	120		146	F3	mg/L		16	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-614959/13
Matrix: Water
Analysis Batch: 614959

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			03/04/23 16:14	1

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

Lab Sample ID: LCS 400-614959/14
Matrix: Water
Analysis Batch: 614959

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	51.3		mg/L		103	90 - 110

Lab Sample ID: MRL 400-614959/15
Matrix: Water
Analysis Batch: 614959

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	2.23		mg/L		111	50 - 150

Lab Sample ID: 400-233828-F-1 MS
Matrix: Water
Analysis Batch: 614959

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	5.3		10.0	14.9		mg/L		96	73 - 120

Lab Sample ID: 400-233828-F-1 MSD
Matrix: Water
Analysis Batch: 614959

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	5.3		10.0	15.4		mg/L		101	73 - 120	4	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-616381/10
Matrix: Water
Analysis Batch: 616381

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	0.070	mg/L			03/14/23 13:45	1

Lab Sample ID: LCS 400-616381/12
Matrix: Water
Analysis Batch: 616381

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	4.96		mg/L		99	90 - 110

Lab Sample ID: MRL 400-616381/11
Matrix: Water
Analysis Batch: 616381

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		102	

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 670-15592-B-12 MS
Matrix: Water
Analysis Batch: 616381

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	0.75	F1	0.200	0.818	F1	mg/L		31	75 - 125		

Lab Sample ID: 670-15592-B-12 MSD
Matrix: Water
Analysis Batch: 616381

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	0.75	F1	0.200	0.818	F1	mg/L		31	75 - 125	0	4

Lab Sample ID: 400-233994-3 DU
Matrix: Water
Analysis Batch: 616381

Client Sample ID: MW-D4-20230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.12		0.124		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-614960/12
Matrix: Water
Analysis Batch: 614960

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			03/04/23 17:02	1

Lab Sample ID: LCS 400-614960/13
Matrix: Water
Analysis Batch: 614960

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	16.5		mg/L		110	90 - 110		

Lab Sample ID: MRL 400-614960/14
Matrix: Water
Analysis Batch: 614960

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	4.92	J	mg/L		98	50 - 150		

Lab Sample ID: 400-233983-B-1 MS
Matrix: Water
Analysis Batch: 614960

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	24		10.0	34.4		mg/L		107	77 - 128		

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

Job ID: 400-233994-1

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

Lab Sample ID: 400-233983-B-1 MSD
Matrix: Water
Analysis Batch: 614960

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	24		10.0	34.5		mg/L		109	77 - 128	0	5

Eurofins Pensacola
3355 McLem[illegible] ve
Pensacola [illegible]14
Phone 850 474 1001 Fax 850-478-2671

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eurofins [illegible]vironment Testing [illegible]rica

Client Information	Sampler: Kendall Brome	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s): 400-233994 COC	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: (253) 303-1460	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:		N	N	P	N	D	D	N	N	N	N		
MW-U1-20230301	03/01/23	1250	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.84
MW-U2-20230301	03/01/23	1430	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 6.58
MW-D4-20230301	03/01/23	1500	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.49
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

KB KB KB

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kendall Brome	03/02/2023 1325	Geosyntec	[signature]	3/3/23 928	EEC
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.0°C IR8

Ver 06 08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-233994-1

Login Number: 233994
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	2.0°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

Job ID: 400-233994-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-31-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

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

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 - Rads

JOB NUMBER

400-233994-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

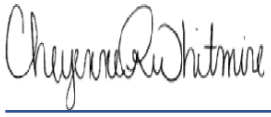
myEOL

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-233994-2

Job ID: 400-233994-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-233994-2

Receipt
The samples were received on 3/3/2023 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-602832. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230301 (400-233994-1), MW-U2-20230301 (400-233994-2), MW-D4-20230301 (400-233994-3), (LCS 160-602832/2-A), (LCSD 160-602832/25-A) and (MB 160-602832/1-A)

Method 9320_Ra228: Radium-228 batch 602838. The LCS/LCSD recovered at (143% / 130%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS/LCSD are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS/LCSD pass, no further action is required (LCS 160-602838/2-A) and (LCSD 160-602838/25-A)

Method 9320_Ra228: Radium-228 batch 602838. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-U1-20230301 (400-233994-1), MW-U2-20230301 (400-233994-2), MW-D4-20230301 (400-233994-3), (LCS 160-602838/2-A), (LCSD 160-602838/25-A) and (MB 160-602838/1-A)

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

Method Summary

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

Job ID: 400-233994-2

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 - Rads

Job ID: 400-233994-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-233994-1	MW-U1-20230301	Water	03/01/23 12:50	03/03/23 09:28
400-233994-2	MW-U2-20230301	Water	03/01/23 14:30	03/03/23 09:28
400-233994-3	MW-D4-20230301	Water	03/01/23 15:00	03/03/23 09:28

Client Sample Results

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

Job ID: 400-233994-2

Client Sample ID: MW-U1-20230301

Date Collected: 03/01/23 12:50
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0393	U	0.0692	0.0693	1.00	0.121	pCi/L	03/08/23 12:16	04/03/23 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:09*	*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	**0.636**		0.361	0.366	1.00	0.512	pCi/L	03/08/23 13:13	03/23/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*1*
Y Carrier	*83.4*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*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	**0.675**		0.368	0.373	5.00	0.512	pCi/L		04/03/23 17:14	1

Client Sample Results

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

Job ID: 400-233994-2

Client Sample ID: MW-U2-20230301

Date Collected: 03/01/23 14:30
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0109	U	0.0479	0.0479	1.00	0.0949	pCi/L	03/08/23 12:16	04/03/23 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:09*	*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	**0.598**		0.353	0.357	1.00	0.501	pCi/L	03/08/23 13:13	03/23/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*1*
Y Carrier	*81.5*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*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	**0.609**		0.356	0.360	5.00	0.501	pCi/L		04/03/23 17:14	1

Client Sample ID: MW-D4-20230301

Date Collected: 03/01/23 15:00
Date Received: 03/03/23 09:28

Lab Sample ID: 400-233994-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0686	U	0.0632	0.0635	1.00	0.0957	pCi/L	03/08/23 12:16	04/03/23 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:09*	*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	0.450	U	0.308	0.311	1.00	0.454	pCi/L	03/08/23 13:13	03/23/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*1*
Y Carrier	*83.0*		*30 - 110*	*03/08/23 13:13*	*03/23/23 12:05*	*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**		0.314	0.317	5.00	0.454	pCi/L		04/03/23 17:14	1

Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 400-233994-2
Project/Site: Crisp County Power - Rads

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 - Rads

Job ID: 400-233994-2

Client Sample ID: MW-U1-20230301

Lab Sample ID: 400-233994-1

Date Collected: 03/01/23 12:50

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:09
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Client Sample ID: MW-U2-20230301

Lab Sample ID: 400-233994-2

Date Collected: 03/01/23 14:30

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:09
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Client Sample ID: MW-D4-20230301

Lab Sample ID: 400-233994-3

Date Collected: 03/01/23 15:00

Matrix: Water

Date Received: 03/03/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602832	DJP	EET SL	03/08/23 12:16
Total/NA	Analysis	9315		1	605835	EMH	EET SL	04/03/23 15:09
Total/NA	Prep	PrecSep_0			602838	DJP	EET SL	03/08/23 13:13
Total/NA	Analysis	9320		1	604790	FLC	EET SL	03/23/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	605951	SCB	EET SL	04/03/23 17:14

Laboratory References:

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

QC Association Summary

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

Job ID: 400-233994-2

Rad

Prep Batch: 602832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	PrecSep-21	
400-233994-2	MW-U2-20230301	Total/NA	Water	PrecSep-21	
400-233994-3	MW-D4-20230301	Total/NA	Water	PrecSep-21	
MB 160-602832/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602832/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-602832/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 602838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-233994-1	MW-U1-20230301	Total/NA	Water	PrecSep_0	
400-233994-2	MW-U2-20230301	Total/NA	Water	PrecSep_0	
400-233994-3	MW-D4-20230301	Total/NA	Water	PrecSep_0	
MB 160-602838/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602838/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-602838/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602832/1-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602832

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.006515	U	0.0337	0.0337	1.00	0.0790	pCi/L	03/08/23 12:16	04/03/23 15:02	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 12:16*	*04/03/23 15:02*	*1*

Lab Sample ID: LCS 160-602832/2-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602832

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.49		1.18	1.00	0.124	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.4*		*30 - 110*

Lab Sample ID: LCSD 160-602832/25-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602832

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.17		1.15	1.00	0.0864	pCi/L	99	75 - 125	0.14	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602838/1-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602838

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6552		0.342	0.347	1.00	0.477	pCi/L	03/08/23 13:13	03/23/23 11:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*03/08/23 13:13*	*03/23/23 11:56*	*1*
Y Carrier	*83.0*		*30 - 110*	*03/08/23 13:13*	*03/23/23 11:56*	*1*

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

Lab Sample ID: LCS 160-602838/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602838

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.09	11.54		1.47	1.00	0.464	pCi/L	143	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.4*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Lab Sample ID: LCSD 160-602838/25-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602838

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.09	10.51		1.39	1.00	0.494	pCi/L	130	75 - 125	0.36	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*
Y Carrier	*80.7*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible] ve
Pensacola [illegible]14
Phone 850 474 1001 Fax 850-478-2671

Chain of Custo[illegible]Record

eurofins [illegible]vironment Testing [illegible]rica

Client Information	Sampler: Kendall Brome	Lab PM: Whitmire, Cheyenne R	400-233994 COC	arrier Tracking No(s)	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin		Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID				Job #
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested				
City: Kennesaw	TAT Requested (days): STANDARD				
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No				
Phone: (253) 303-1460	PO #: Purchase Order not required				
Email: dyifru@geosyntec.com	WO #:				
Project Name: Crisp County CCR	Project #: 40007960				
Site: Crisp County Power	SSOW#:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:		N	N	P	N	D	P	N	N	N	N		
MW-U1-20230301	03/01/23	1250	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.84
MW-U2-20230301	03/01/23	1430	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 6.58
MW-D4-20230301	03/01/23	1500	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.49
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

KB KB KB

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kendall Brome	03/02/2023 1325	Geosyntec	[signature]	3/3/23 928	EECS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.0°C IR8

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-233994-2

Login Number: 233994
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	2.0°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
Job ID: 400-233994-2
Project/Site: Crisp County Power - Rads

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/31/2023 10:03:53 PM Revision 1

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-236902-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

my EOL

Job Notes

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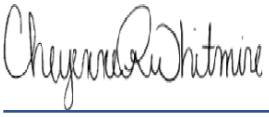
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



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Revision 1

Authorized for release by
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Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-236902-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-236902-1

Receipt
The samples were received on 4/29/2023 7:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4º C, 2.3º C, 3.6º C and 3.7º C.

Metals
Method 6020: The post digestion spike % recovery for Antimony associated with batch 400-625600 was outside of control limits. The associated sample is: (400-236902-C-1-D PDS ^5).

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-623914 and analytical batch 400-625600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020: The method blank for preparation batch 400-623914 and analytical batch 400-625600 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-625706 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

General Chemistry
Method SM 4500 F C: The matrix spike (MS) recoveries for analytical batch 400-623192 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-623837 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 Cl- E: The method blank for analytical batch 400-623837 contained Chlorides above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-624976 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-236929-A-2), (400-236929-A-2 MS) and (400-236929-A-2 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-623940 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-235966-B-1), (400-235966-B-1 MS) and (400-235966-B-1 MSD). Elevated reporting limits (RLs) are provided.

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 5/21/2023. The report (revision 1) is being revised due to: Client requested samples 9-12 be moved to a separate report.

Job ID: 400-236902-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

Detection Summary

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

Job ID: 400-236902-1

Client Sample ID: MW-D4-20230426 — Lab Sample ID: 400-236902-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.027		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.025	J B F1	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	50		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0017	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0011	J B	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.8	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.16		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Field pH	7.67				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D5-20230427 — Lab Sample ID: 400-236902-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.034	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	41		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0016	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Lithium	0.0053		0.0025	0.0049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	6.7		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.86				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D6-20230426 — Lab Sample ID: 400-236902-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.011		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.027	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	38		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0042		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0011	J	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	150		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	0.11		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.11				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 400-236902-1

Client Sample ID: MW-D7-20230427 — Lab Sample ID: 400-236902-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.061	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	77		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.074	J	0.10	0.070	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	7.33				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U2-20230426 — Lab Sample ID: 400-236902-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.012		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.027	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	20		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0017	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Selenium	0.0015		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	84		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	0.11		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	28		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.57				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D8-20230427 — Lab Sample ID: 400-236902-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.059		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.069	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	85		0.25	0.13	mg/L	5		6020	Total Recoverable
Selenium	0.0010	J	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	280		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	19		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9-20230427 — Lab Sample ID: 400-236902-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.048		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.032	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-D9-20230427 (Continued) — Lab Sample ID: 400-236902-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	61		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0049		0.0025	0.0049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.083	J	0.10	0.070	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	11.24				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-6-20230427 — Lab Sample ID: 400-236902-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.058		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.064	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	82		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0053		0.0025	0.0049	mg/L	5		6020	Total Recoverable
Selenium	0.0010	J	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	240		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
Sulfate	19		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-20-20230427 — Lab Sample ID: 400-236902-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.060		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.17	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	89		0.25	0.13	mg/L	5		6020	Total Recoverable
Molybdenum	0.0053	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	260		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	28		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-236902-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-236902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-236902-1	MW-D4-20230426	Water	04/26/23 16:45	04/29/23 07:44
400-236902-2	MW-D5-20230427	Water	04/27/23 08:51	04/29/23 07:44
400-236902-3	MW-D6-20230426	Water	04/26/23 15:10	04/29/23 07:44
400-236902-4	MW-D7-20230427	Water	04/27/23 10:37	04/29/23 07:44
400-236902-5	MW-U2-20230426	Water	04/26/23 13:44	04/29/23 07:44
400-236902-6	MW-D8-20230427	Water	04/27/23 12:07	04/29/23 07:44
400-236902-7	MW-D9-20230427	Water	04/27/23 12:05	04/29/23 07:44
400-236902-8	DUP-6-20230427	Water	04/27/23 12:00	04/29/23 07:44
400-236902-13	DUP-20-20230427	Water	04/27/23 12:00	04/29/23 07:44

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

Job ID: 400-236902-1

Client Sample ID: MW-D4-20230426

Date Collected: 04/26/23 16:45
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 13:49	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 13:49	5
Barium	**0.027**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 13:49	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 13:49	5
Boron	**0.025**	**J B F1**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 13:49	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 13:49	5
Calcium	**50**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 13:49	5
Chromium	**0.0017**	**J**	0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 13:49	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 13:49	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 13:49	5
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/19/23 13:39	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 13:49	5
Selenium	**0.0011**	**J B**	0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 13:49	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 13:49	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		5.0	5.0	mg/L			05/02/23 14:01	1
Chloride (SM 4500 Cl- E)	**1.8**	**J**	2.0	1.4	mg/L			05/13/23 10:55	1
Fluoride (SM 4500 F C)	**0.16**		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			05/08/23 12:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.67**				SU			04/26/23 15:45	1

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

Job ID: 400-236902-1

Client Sample ID: MW-D5-20230427

Date Collected: 04/27/23 08:51
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:04	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:04	5
Barium	**0.030**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:04	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:04	5
Boron	**0.034**	**J B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:04	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:04	5
Calcium	**41**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:04	5
Chromium	**0.0016**	**J**	0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:04	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:04	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:04	5
Lithium	**0.0053**		0.0025	0.0049	mg/L		05/08/23 13:20	05/19/23 13:42	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:04	5
Selenium	ND		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:04	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:04	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		5.0	5.0	mg/L			05/02/23 14:01	1
Chloride (SM 4500 Cl- E)	**6.7**		2.0	1.4	mg/L			05/13/23 10:57	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**2.5**	**J**	5.0	1.4	mg/L			05/08/23 12:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.86**				SU			04/27/23 07:51	1

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

Job ID: 400-236902-1

Client Sample ID: MW-D6-20230426

Date Collected: 04/26/23 15:10
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:29	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:29	5
Barium	**0.011**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:29	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:29	5
Boron	**0.027**	**J B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:29	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:29	5
Calcium	**38**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:29	5
Chromium	**0.0042**		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:29	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:29	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:29	5
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/18/23 14:29	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:29	5
Selenium	**0.0011**	**J**	0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:29	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:29	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		5.0	5.0	mg/L			05/02/23 14:01	1
Chloride (SM 4500 Cl- E)	**3.7**		2.0	1.4	mg/L			05/13/23 10:57	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**3.4**	**J**	5.0	1.4	mg/L			05/08/23 12:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.11**				SU			04/26/23 14:10	1

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

Job ID: 400-236902-1

Client Sample ID: MW-D7-20230427

Date Collected: 04/27/23 10:37
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:32	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:32	5
Barium	**0.15**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:32	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:32	5
Boron	**0.061**	**B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:32	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:32	5
Calcium	**77**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:32	5
Chromium	ND		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:32	5
Cobalt	**0.0022**	**J**	0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:32	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:32	5
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/18/23 14:32	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:32	5
Selenium	ND		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:32	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:32	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**230**		5.0	5.0	mg/L			05/02/23 14:01	1
Chloride (SM 4500 Cl- E)	**4.1**		2.0	1.4	mg/L			05/13/23 10:58	1
Fluoride (SM 4500 F C)	**0.074**	**J**	0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**13**		5.0	1.4	mg/L			05/08/23 12:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.33**				SU			04/27/23 09:37	1

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

Job ID: 400-236902-1

Client Sample ID: MW-U2-20230426

Date Collected: 04/26/23 13:44
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:35	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:35	5
Barium	**0.012**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:35	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:35	5
Boron	**0.027**	**J B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:35	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:35	5
Calcium	**20**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:35	5
Chromium	**0.0017**	**J**	0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:35	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:35	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:35	5
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/18/23 14:35	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:35	5
Selenium	**0.0015**		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:35	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:35	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:09	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			05/03/23 09:13	1
Chloride (SM 4500 Cl- E)	**3.4**		2.0	1.4	mg/L			05/15/23 13:20	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**28**		5.0	1.4	mg/L			05/17/23 18:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.57**				SU			04/26/23 12:44	1

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

Job ID: 400-236902-1

Client Sample ID: MW-D8-20230427

Date Collected: 04/27/23 12:07
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:38	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:38	5
Barium	**0.059**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:38	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:38	5
Boron	**0.069**	**B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:38	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:38	5
Calcium	**85**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:38	5
Chromium	ND		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:38	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:38	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:38	5
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/18/23 14:38	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:38	5
Selenium	**0.0010**	**J**	0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:38	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:38	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**280**		5.0	5.0	mg/L			05/03/23 09:13	1
Chloride (SM 4500 Cl- E)	**4.6**		2.0	1.4	mg/L			05/15/23 13:21	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**19**		5.0	1.4	mg/L			05/17/23 18:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.33**				SU			04/27/23 11:07	1

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

Job ID: 400-236902-1

Client Sample ID: MW-D9-20230427

Date Collected: 04/27/23 12:05
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:42	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:42	5
Barium	**0.048**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:42	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:42	5
Boron	**0.032**	**J B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:42	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:42	5
Calcium	**61**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:42	5
Chromium	ND		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:42	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:42	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:42	5
Lithium	**0.0049**		0.0025	0.0049	mg/L		05/08/23 13:20	05/19/23 13:46	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:42	5
Selenium	ND		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:42	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:42	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		5.0	5.0	mg/L			05/03/23 09:13	1
Chloride (SM 4500 Cl- E)	**2.0**		2.0	1.4	mg/L			05/15/23 13:21	1
Fluoride (SM 4500 F C)	**0.083**	**J**	0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**2.3**	**J**	5.0	1.4	mg/L			05/17/23 18:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**11.24**				SU			04/27/23 11:05	1

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

Job ID: 400-236902-1

Client Sample ID: DUP-6-20230427

Date Collected: 04/27/23 12:00
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:45	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:45	5
Barium	**0.058**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:45	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:45	5
Boron	**0.064**	**B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:45	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:45	5
Calcium	**82**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:45	5
Chromium	ND		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:45	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:45	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:45	5
Lithium	**0.0053**		0.0025	0.0049	mg/L		05/08/23 13:20	05/19/23 13:49	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:45	5
Selenium	**0.0010**	**J**	0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:45	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:45	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			05/03/23 09:13	1
Chloride (SM 4500 Cl- E)	**4.7**		2.0	1.4	mg/L			05/15/23 13:22	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**19**		5.0	1.4	mg/L			05/17/23 18:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			04/27/23 11:00	1

Definitions/Glossary

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

Job ID: 400-236902-1

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.
B	Compound was found in the blank and sample.
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
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.

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

Job ID: 400-236902-1

Client Sample ID: MW-D4-20230426
Date Collected: 04/26/23 16:45
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 13:49
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625706	NTH	EET PEN	05/19/23 13:39
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 08:58
Total/NA	Analysis	SM 2540C		1	623198	HA	EET PEN	05/02/23 14:01
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:55
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:30
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/26/23 15:45

Client Sample ID: MW-D5-20230427
Date Collected: 04/27/23 08:51
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:04
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625706	NTH	EET PEN	05/19/23 13:42
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:03
Total/NA	Analysis	SM 2540C		1	623198	HA	EET PEN	05/02/23 14:01
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:57
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:27
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 07:51

Client Sample ID: MW-D6-20230426
Date Collected: 04/26/23 15:10
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:29
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:07
Total/NA	Analysis	SM 2540C		1	623198	HA	EET PEN	05/02/23 14:01
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:57
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:26
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/26/23 14:10

Lab Chronicle

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

Job ID: 400-236902-1

Client Sample ID: MW-D7-20230427

Lab Sample ID: 400-236902-4

Date Collected: 04/27/23 10:37

Matrix: Water

Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:32
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:08
Total/NA	Analysis	SM 2540C		1	623198	HA	EET PEN	05/02/23 14:01
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:58
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:26
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 09:37

Client Sample ID: MW-U2-20230426

Lab Sample ID: 400-236902-5

Date Collected: 04/26/23 13:44

Matrix: Water

Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:35
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:09
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624976	CJK	EET PEN	05/15/23 13:20
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	625380	CJK	EET PEN	05/17/23 18:42
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/26/23 12:44

Client Sample ID: MW-D8-20230427

Lab Sample ID: 400-236902-6

Date Collected: 04/27/23 12:07

Matrix: Water

Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:38
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:11
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624976	CJK	EET PEN	05/15/23 13:21
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	625380	CJK	EET PEN	05/17/23 18:43
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 11:07

Lab Chronicle

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

Job ID: 400-236902-1

Client Sample ID: MW-D9-20230427
Date Collected: 04/27/23 12:05
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:42
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625706	NTH	EET PEN	05/19/23 13:46
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:12
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624976	CJK	EET PEN	05/15/23 13:21
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	625380	CJK	EET PEN	05/17/23 18:43
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 11:05

Client Sample ID: DUP-6-20230427
Date Collected: 04/27/23 12:00
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:45
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625706	NTH	EET PEN	05/19/23 13:49
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624976	CJK	EET PEN	05/15/23 13:22
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	625380	CJK	EET PEN	05/17/23 18:44
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 11:00

Client Sample ID: DUP-20-20230427
Date Collected: 04/27/23 12:00
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 15:22
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:25
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624976	CJK	EET PEN	05/15/23 13:23
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	625380	CJK	EET PEN	05/17/23 18:45
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 11:00

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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

Job ID: 400-236902-1

Laboratory References:

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

Metals

Prep Batch: 623053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	7470A	
400-236902-2	MW-D5-20230427	Total/NA	Water	7470A	
400-236902-3	MW-D6-20230426	Total/NA	Water	7470A	
400-236902-4	MW-D7-20230427	Total/NA	Water	7470A	
400-236902-5	MW-U2-20230426	Total/NA	Water	7470A	
400-236902-6	MW-D8-20230427	Total/NA	Water	7470A	
400-236902-7	MW-D9-20230427	Total/NA	Water	7470A	
400-236902-8	DUP-6-20230427	Total/NA	Water	7470A	
400-236902-13	DUP-20-20230427	Total/NA	Water	7470A	
MB 400-623053/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-623053/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-236902-1 MS	MW-D4-20230426	Total/NA	Water	7470A	
400-236902-1 MSD	MW-D4-20230426	Total/NA	Water	7470A	

Analysis Batch: 623349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	7470A	623053
400-236902-2	MW-D5-20230427	Total/NA	Water	7470A	623053
400-236902-3	MW-D6-20230426	Total/NA	Water	7470A	623053
400-236902-4	MW-D7-20230427	Total/NA	Water	7470A	623053
400-236902-5	MW-U2-20230426	Total/NA	Water	7470A	623053
400-236902-6	MW-D8-20230427	Total/NA	Water	7470A	623053
400-236902-7	MW-D9-20230427	Total/NA	Water	7470A	623053
400-236902-8	DUP-6-20230427	Total/NA	Water	7470A	623053
400-236902-13	DUP-20-20230427	Total/NA	Water	7470A	623053
MB 400-623053/14-A	Method Blank	Total/NA	Water	7470A	623053
LCS 400-623053/15-A	Lab Control Sample	Total/NA	Water	7470A	623053
400-236902-1 MS	MW-D4-20230426	Total/NA	Water	7470A	623053
400-236902-1 MSD	MW-D4-20230426	Total/NA	Water	7470A	623053

Prep Batch: 623914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total Recoverable	Water	3005A	
400-236902-2	MW-D5-20230427	Total Recoverable	Water	3005A	
400-236902-3	MW-D6-20230426	Total Recoverable	Water	3005A	
400-236902-4	MW-D7-20230427	Total Recoverable	Water	3005A	
400-236902-5	MW-U2-20230426	Total Recoverable	Water	3005A	
400-236902-6	MW-D8-20230427	Total Recoverable	Water	3005A	
400-236902-7	MW-D9-20230427	Total Recoverable	Water	3005A	
400-236902-8	DUP-6-20230427	Total Recoverable	Water	3005A	
400-236902-13	DUP-20-20230427	Total Recoverable	Water	3005A	
MB 400-623914/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-623914/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-236902-1 MS	MW-D4-20230426	Total Recoverable	Water	3005A	
400-236902-1 MSD	MW-D4-20230426	Total Recoverable	Water	3005A	

Analysis Batch: 625600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total Recoverable	Water	6020	623914
400-236902-2	MW-D5-20230427	Total Recoverable	Water	6020	623914
400-236902-3	MW-D6-20230426	Total Recoverable	Water	6020	623914

Metals (Continued)

Analysis Batch: 625600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-4	MW-D7-20230427	Total Recoverable	Water	6020	623914
400-236902-5	MW-U2-20230426	Total Recoverable	Water	6020	623914
400-236902-6	MW-D8-20230427	Total Recoverable	Water	6020	623914
400-236902-7	MW-D9-20230427	Total Recoverable	Water	6020	623914
400-236902-8	DUP-6-20230427	Total Recoverable	Water	6020	623914
400-236902-13	DUP-20-20230427	Total Recoverable	Water	6020	623914
MB 400-623914/1-A ^5	Method Blank	Total Recoverable	Water	6020	623914
LCS 400-623914/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	623914
400-236902-1 MS	MW-D4-20230426	Total Recoverable	Water	6020	623914
400-236902-1 MSD	MW-D4-20230426	Total Recoverable	Water	6020	623914

Analysis Batch: 625706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total Recoverable	Water	6020	623914
400-236902-2	MW-D5-20230427	Total Recoverable	Water	6020	623914
400-236902-7	MW-D9-20230427	Total Recoverable	Water	6020	623914
400-236902-8	DUP-6-20230427	Total Recoverable	Water	6020	623914
MB 400-623914/1-A ^5	Method Blank	Total Recoverable	Water	6020	623914

General Chemistry

Analysis Batch: 623192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	SM 4500 F C	
400-236902-2	MW-D5-20230427	Total/NA	Water	SM 4500 F C	
400-236902-3	MW-D6-20230426	Total/NA	Water	SM 4500 F C	
400-236902-4	MW-D7-20230427	Total/NA	Water	SM 4500 F C	
400-236902-5	MW-U2-20230426	Total/NA	Water	SM 4500 F C	
400-236902-6	MW-D8-20230427	Total/NA	Water	SM 4500 F C	
400-236902-7	MW-D9-20230427	Total/NA	Water	SM 4500 F C	
400-236902-8	DUP-6-20230427	Total/NA	Water	SM 4500 F C	
400-236902-13	DUP-20-20230427	Total/NA	Water	SM 4500 F C	
MB 400-623192/10	Method Blank	Total/NA	Water	SM 4500 F C	
MB 400-623192/40	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-623192/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 400-623192/42	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-623192/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-236690-E-2 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-236690-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-236902-7 MS	MW-D9-20230427	Total/NA	Water	SM 4500 F C	
400-236902-7 MSD	MW-D9-20230427	Total/NA	Water	SM 4500 F C	
400-236690-E-11 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 623198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	SM 2540C	
400-236902-2	MW-D5-20230427	Total/NA	Water	SM 2540C	
400-236902-3	MW-D6-20230426	Total/NA	Water	SM 2540C	
400-236902-4	MW-D7-20230427	Total/NA	Water	SM 2540C	
MB 400-623198/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-623198/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 623198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236798-E-8 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 623280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-5	MW-U2-20230426	Total/NA	Water	SM 2540C	
400-236902-6	MW-D8-20230427	Total/NA	Water	SM 2540C	
400-236902-7	MW-D9-20230427	Total/NA	Water	SM 2540C	
400-236902-8	DUP-6-20230427	Total/NA	Water	SM 2540C	
400-236902-13	DUP-20-20230427	Total/NA	Water	SM 2540C	
MB 400-623280/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-623280/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-236902-5 DU	MW-U2-20230426	Total/NA	Water	SM 2540C	
400-236902-13 DU	DUP-20-20230427	Total/NA	Water	SM 2540C	

Analysis Batch: 623940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	SM 4500 SO4 E	
400-236902-2	MW-D5-20230427	Total/NA	Water	SM 4500 SO4 E	
400-236902-3	MW-D6-20230426	Total/NA	Water	SM 4500 SO4 E	
400-236902-4	MW-D7-20230427	Total/NA	Water	SM 4500 SO4 E	
400-235966-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-235966-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 624780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	SM 4500 Cl- E	
400-236902-2	MW-D5-20230427	Total/NA	Water	SM 4500 Cl- E	
400-236902-3	MW-D6-20230426	Total/NA	Water	SM 4500 Cl- E	
400-236902-4	MW-D7-20230427	Total/NA	Water	SM 4500 Cl- E	
MB 400-624780/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-624780/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-624780/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-236902-1 MS	MW-D4-20230426	Total/NA	Water	SM 4500 Cl- E	
400-236902-1 MSD	MW-D4-20230426	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 624976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-5	MW-U2-20230426	Total/NA	Water	SM 4500 Cl- E	
400-236902-6	MW-D8-20230427	Total/NA	Water	SM 4500 Cl- E	
400-236902-7	MW-D9-20230427	Total/NA	Water	SM 4500 Cl- E	
400-236902-8	DUP-6-20230427	Total/NA	Water	SM 4500 Cl- E	
400-236902-13	DUP-20-20230427	Total/NA	Water	SM 4500 Cl- E	
MB 400-624976/21	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-624976/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-624976/22	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 400-624976/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-624976/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-236929-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-236929-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

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

Job ID: 400-236902-1

General Chemistry

Analysis Batch: 625380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-5	MW-U2-20230426	Total/NA	Water	SM 4500 SO4 E	
400-236902-6	MW-D8-20230427	Total/NA	Water	SM 4500 SO4 E	
400-236902-7	MW-D9-20230427	Total/NA	Water	SM 4500 SO4 E	
400-236902-8	DUP-6-20230427	Total/NA	Water	SM 4500 SO4 E	
400-236902-13	DUP-20-20230427	Total/NA	Water	SM 4500 SO4 E	
MB 400-625380/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-625380/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-237188-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-237188-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 623093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	Field Sampling	
400-236902-2	MW-D5-20230427	Total/NA	Water	Field Sampling	
400-236902-3	MW-D6-20230426	Total/NA	Water	Field Sampling	
400-236902-4	MW-D7-20230427	Total/NA	Water	Field Sampling	
400-236902-5	MW-U2-20230426	Total/NA	Water	Field Sampling	
400-236902-6	MW-D8-20230427	Total/NA	Water	Field Sampling	
400-236902-7	MW-D9-20230427	Total/NA	Water	Field Sampling	
400-236902-8	DUP-6-20230427	Total/NA	Water	Field Sampling	
400-236902-13	DUP-20-20230427	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-623914/1-A ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 13:36	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 13:36	5
Barium	ND		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 13:36	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 13:36	5
Boron	0.00928	J	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 13:36	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 13:36	5
Calcium	ND		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 13:36	5
Chromium	ND		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 13:36	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 13:36	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 13:36	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 13:36	5
Selenium	ND		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 13:36	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 13:36	5

Lab Sample ID: MB 400-623914/1-A ^5
Matrix: Water
Analysis Batch: 625706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/19/23 13:34	5

Lab Sample ID: LCS 400-623914/2-A ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0537		mg/L		107	80 - 120
Arsenic	0.0500	0.0489		mg/L		98	80 - 120
Barium	0.0500	0.0525		mg/L		105	80 - 120
Beryllium	0.0500	0.0522		mg/L		104	80 - 120
Boron	0.100	0.107		mg/L		107	80 - 120
Cadmium	0.0500	0.0519		mg/L		104	80 - 120
Calcium	5.00	5.13		mg/L		103	80 - 120
Chromium	0.0500	0.0511		mg/L		102	80 - 120
Cobalt	0.0500	0.0509		mg/L		102	80 - 120
Lead	0.0500	0.0527		mg/L		105	80 - 120
Lithium	0.0500	0.0553		mg/L		111	80 - 120
Molybdenum	0.0500	0.0526		mg/L		105	80 - 120
Selenium	0.0500	0.0514		mg/L		103	80 - 120
Thallium	0.0100	0.0106		mg/L		106	80 - 120

Lab Sample ID: 400-236902-1 MS
Matrix: Water
Analysis Batch: 625600

Client Sample ID: MW-D4-20230426
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	0.0500	0.0628	F1	mg/L		126	75 - 125
Arsenic	ND		0.0500	0.0553		mg/L		111	75 - 125
Barium	0.027		0.0500	0.0828		mg/L		112	75 - 125

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

Lab Sample ID: 400-236902-1 MS
Matrix: Water
Analysis Batch: 625600

Client Sample ID: MW-D4-20230426
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0580		mg/L		116	75 - 125
Boron	0.025	J B F1	0.100	0.151	F1	mg/L		126	75 - 125
Cadmium	ND		0.0500	0.0594		mg/L		119	75 - 125
Calcium	50		5.00	56.0	4	mg/L		130	75 - 125
Chromium	0.0017	J	0.0500	0.0576		mg/L		112	75 - 125
Cobalt	ND		0.0500	0.0566		mg/L		113	75 - 125
Lead	ND		0.0500	0.0557		mg/L		111	75 - 125
Lithium	ND	L	0.0500	0.0554		mg/L		111	75 - 125
Molybdenum	ND		0.0500	0.0602		mg/L		120	75 - 125
Selenium	0.0011	J B	0.0500	0.0559		mg/L		110	75 - 125
Thallium	ND		0.0100	0.0113		mg/L		113	75 - 125

Lab Sample ID: 400-236902-1 MSD
Matrix: Water
Analysis Batch: 625600

Client Sample ID: MW-D4-20230426
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	0.0500	0.0589		mg/L		118	75 - 125	6	20
Arsenic	ND		0.0500	0.0549		mg/L		110	75 - 125	1	20
Barium	0.027		0.0500	0.0817		mg/L		110	75 - 125	1	20
Beryllium	ND		0.0500	0.0547		mg/L		109	75 - 125	6	20
Boron	0.025	J B F1	0.100	0.135		mg/L		110	75 - 125	11	20
Cadmium	ND		0.0500	0.0564		mg/L		113	75 - 125	5	20
Calcium	50		5.00	56.9	4	mg/L		146	75 - 125	1	20
Chromium	0.0017	J	0.0500	0.0569		mg/L		110	75 - 125	1	20
Cobalt	ND		0.0500	0.0565		mg/L		113	75 - 125	0	20
Lead	ND		0.0500	0.0559		mg/L		112	75 - 125	0	20
Lithium	ND	L	0.0500	0.0498		mg/L		100	75 - 125	11	20
Molybdenum	ND		0.0500	0.0574		mg/L		115	75 - 125	5	20
Selenium	0.0011	J B	0.0500	0.0506		mg/L		99	75 - 125	10	20
Thallium	ND		0.0100	0.0117		mg/L		117	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-623053/14-A
Matrix: Water
Analysis Batch: 623349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 08:52	1

Lab Sample ID: LCS 400-623053/15-A
Matrix: Water
Analysis Batch: 623349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.000870		mg/L		86	80 - 120

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

Lab Sample ID: 400-236902-1 MS
Matrix: Water
Analysis Batch: 623349

Client Sample ID: MW-D4-20230426
Prep Type: Total/NA
Prep Batch: 623053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00201		mg/L		100	80 - 120

Lab Sample ID: 400-236902-1 MSD
Matrix: Water
Analysis Batch: 623349

Client Sample ID: MW-D4-20230426
Prep Type: Total/NA
Prep Batch: 623053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00187		mg/L		93	80 - 120	7	20

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

Lab Sample ID: MB 400-623198/1
Matrix: Water
Analysis Batch: 623198

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			05/02/23 14:01	1

Lab Sample ID: LCS 400-623198/2
Matrix: Water
Analysis Batch: 623198

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	298		mg/L		102	78 - 122

Lab Sample ID: 400-236798-E-8 DU
Matrix: Water
Analysis Batch: 623198

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	140		140		mg/L		0	5

Lab Sample ID: MB 400-623280/1
Matrix: Water
Analysis Batch: 623280

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			05/03/23 09:13	1

Lab Sample ID: LCS 400-623280/2
Matrix: Water
Analysis Batch: 623280

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

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

Lab Sample ID: 400-236902-5 DU
Matrix: Water
Analysis Batch: 623280

Client Sample ID: MW-U2-20230426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	84			84.0		mg/L				0	5

Lab Sample ID: 400-236902-13 DU
Matrix: Water
Analysis Batch: 623280

Client Sample ID: DUP-20-20230427
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	260			256		mg/L				0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-624780/13
Matrix: Water
Analysis Batch: 624780

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			05/13/23 10:54	1

Lab Sample ID: LCS 400-624780/14
Matrix: Water
Analysis Batch: 624780

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	54.3		mg/L		109	90 - 110		

Lab Sample ID: MRL 400-624780/15
Matrix: Water
Analysis Batch: 624780

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	2.19		mg/L		110	50 - 150		

Lab Sample ID: 400-236902-1 MS
Matrix: Water
Analysis Batch: 624780

Client Sample ID: MW-D4-20230426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1.8	J	10.0	10.6		mg/L		88	73 - 120		

Lab Sample ID: 400-236902-1 MSD
Matrix: Water
Analysis Batch: 624780

Client Sample ID: MW-D4-20230426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.8	J	10.0	10.7		mg/L		90	73 - 120	1	8

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

Lab Sample ID: MB 400-624976/21
Matrix: Water
Analysis Batch: 624976

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			05/15/23 13:25	1

Lab Sample ID: MB 400-624976/5
Matrix: Water
Analysis Batch: 624976

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			05/15/23 13:17	1

Lab Sample ID: LCS 400-624976/22
Matrix: Water
Analysis Batch: 624976

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	51.2		mg/L		102	90 - 110

Lab Sample ID: LCS 400-624976/6
Matrix: Water
Analysis Batch: 624976

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	50.6		mg/L		101	90 - 110

Lab Sample ID: MRL 400-624976/7
Matrix: Water
Analysis Batch: 624976

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	2.14		mg/L		107	50 - 150

Lab Sample ID: 400-236929-A-2 MS
Matrix: Water
Analysis Batch: 624976

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	25000		40.0	1790	4	mg/L		-59055	73 - 120

Lab Sample ID: 400-236929-A-2 MSD
Matrix: Water
Analysis Batch: 624976

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	25000		40.0	1790	4	mg/L		-59049	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-623192/10
Matrix: Water
Analysis Batch: 623192

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	0.070	mg/L			05/02/23 13:49	1

Lab Sample ID: MB 400-623192/40
Matrix: Water
Analysis Batch: 623192

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	0.070	mg/L			05/02/23 13:49	1

Lab Sample ID: LCS 400-623192/12
Matrix: Water
Analysis Batch: 623192

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	5.18		mg/L		104	90 - 110

Lab Sample ID: LCS 400-623192/42
Matrix: Water
Analysis Batch: 623192

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	5.18		mg/L		104	90 - 110

Lab Sample ID: MRL 400-623192/11
Matrix: Water
Analysis Batch: 623192

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	0.0975	J	mg/L		97	

Lab Sample ID: 400-236690-E-2 MS
Matrix: Water
Analysis Batch: 623192

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	0.25	F1	0.100	0.312	F1	mg/L		67	75 - 125

Lab Sample ID: 400-236690-E-2 MSD
Matrix: Water
Analysis Batch: 623192

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	0.25	F1	0.100	0.312	F1	mg/L		67	75 - 125	0	4

Lab Sample ID: 400-236902-7 MS
Matrix: Water
Analysis Batch: 623192

Client Sample ID: MW-D9-20230427
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.083	J	0.100	0.178		mg/L		95	75 - 125

Method: SM 4500 F C - Fluoride

Lab Sample ID: 400-236902-7 MSD
Matrix: Water
Analysis Batch: 623192

Client Sample ID: MW-D9-20230427
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.083	J	0.100	0.185		mg/L		102	75 - 125	4	4

Lab Sample ID: 400-236690-E-11 DU
Matrix: Water
Analysis Batch: 623192

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.20		0.201		mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: 400-235966-B-1 MS
Matrix: Water
Analysis Batch: 623940

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	130	F1	50.0	121	F1	mg/L		-21	77 - 128		

Lab Sample ID: 400-235966-B-1 MSD
Matrix: Water
Analysis Batch: 623940

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	130	F1	50.0	122	F1	mg/L		-19	77 - 128	1	5

Lab Sample ID: MB 400-625380/12
Matrix: Water
Analysis Batch: 625380

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			05/17/23 18:39	1

Lab Sample ID: LCS 400-625380/13
Matrix: Water
Analysis Batch: 625380

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	13.6		mg/L		91	90 - 110		

Lab Sample ID: 400-237188-D-1 MS
Matrix: Water
Analysis Batch: 625380

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	5.1		1.00	15.7	4	mg/L		1057	77 - 128		

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

Lab Sample ID: 400-237188-D-1 MSD
Matrix: Water
Analysis Batch: 625380

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	5.1		1.00	15.4	4	mg/L		1033	77 - 128	2	5

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information

Client Contact: Dawit Yifru
Company: Geosyntec Consultants, Inc.
Address: 1255 Roberts Blvd, NW Suite 200
City: Kennesaw
State, Zip: GA, 30144
Phone: 678-202-9569
Email: dyifru@geosyntec.com
Project Name: Crisp County CCR
Site: Crisp County Power

Sampler: Tristan Orndorff
Phone: 404-625-0058
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 40007960
SSOW#:

Lab PM: Whitmire, Cheyenne R
E-Mail: Cheyenne.Whitmire@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH
MW-DH-20230426	04/26/23	16:45	G	Water	N	N	X	X	X	X	X	X	X	X
MW-DS-20230427	04/27/23	08:51	G	Water	N	N	X	X	X	X	X	X	X	X
MW-D6-20230426	04/26/23	15:10	G	Water	N	N	X	X	X	X	X	X	X	X
MW-D7-20230427	04/27/23	10:37	G	Water	N	N	X	X	X	X	X	X	X	X
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

400-236902 CC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained)
☐ Return To Client ☒ Disposal By Lab ☐ Archive

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by:	Date/Time: 4-29-2
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:

3355 McLemore Drive
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Ormdorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 484-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: (678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-U2-20230426	04/26/23	13:44	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D8-20230427	04/27/23	12:07	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D9-20230427	04/27/23	12:05	G	Water	N	N	X	X	X	X	X	X	X	X	
DUP-6-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retaine
☐ Return To Client ☒ Disposal By Lab ☐ Archi

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Ormdorff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by: M
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: 4-29-23

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

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH						
MW-U1-20230426	04/26/23	11:52	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D1-20230426	04/26/23	13:33	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D2-20230426	04/26/23	16:51	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D3-20230427	04/27/23	08:48	G	Water	N	N	X	X	X	X	X	X	X	X						
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

400-236902 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are ret
☐ Return To Client ☑ Disposal By Lab ☐ A

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company: Geo	Received by:
Relinquished by:	Date/Time:	Company:	Received by: Date/Time:

Eurofins Pensacola
3355 McLemo Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
DUP-20-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retain
☐ Return To Client ☒ Disposal By Lab ☐ Arch

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-1

Login Number: 236902
List Number: 1
Creator: Whitley, Adrian

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.	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	1.4, 3.7, 3.6, 2.3°C IR11
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

Job ID: 400-236902-1

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2023 2:38:02 PM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-236902-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

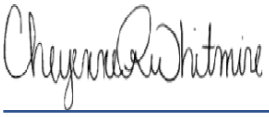
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-236902-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-236902-2

Receipt
The samples were received on 4/29/2023 7:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4º C, 2.3º C, 3.6º C and 3.7º C.

RAD
Method 9315: Radium-226 batch 611290. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-20-20230427 (400-236902-13), (LCS 160-611290/2-A), (LCSD 160-611290/3-A) and (MB 160-611290/1-A)

Method 9315: Radium-226 batch 611496. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D4-20230426 (400-236902-1), MW-D5-20230427 (400-236902-2), MW-D6-20230426 (400-236902-3), MW-D7-20230427 (400-236902-4), MW-U2-20230426 (400-236902-5), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7), DUP-6-20230427 (400-236902-8), (LCS 160-611496/2-A), (LCSD 160-611496/3-A) and (MB 160-611496/1-A)

Method 9315: Radium-226 prep batch 160-611496. The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to limited volume available for analysis. The data have been reported with this narrative. MW-D6-20230426 (400-236902-3)

Method 9320: Radium-228 prep batch 160-611300. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.DUP-20-20230427 (400-236902-13), (LCS 160-611300/2-A), (LCSD 160-611300/3-A) and (MB 160-611300/1-A)

Method 9320: Radium-228 batch 611507. The LCS recovered at (126%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required. (LCS 160-611507/2-A)

Method 9320: Radium-228 batch 611507. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D4-20230426 (400-236902-1), MW-D5-20230427 (400-236902-2), MW-D6-20230426 (400-236902-3), MW-D7-20230427 (400-236902-4), MW-U2-20230426 (400-236902-5), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7), DUP-6-20230427 (400-236902-8), (LCS 160-611507/2-A), (LCSD 160-611507/3-A) and (MB 160-611507/1-A)

Method 9320: Radium-228 prep batch 160-611507. The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to limited volume available for analysis. The data have been reported with this narrative. MW-D4-20230426 (400-236902-1), MW-D6-20230426 (400-236902-3), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7) and DUP-6-20230427 (400-236902-8)

Method PrecSep_0: Radium-228 Prep Batch 160-611042. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4-20230426 (400-236902-1), MW-D5-20230427 (400-236902-2), MW-D6-20230426 (400-236902-3), MW-D7-20230427 (400-236902-4), MW-U2-20230426 (400-236902-5), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7) and DUP-6-20230427 (400-236902-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-611300. Insufficient sample volume was available to perform a sample duplicate for the following samples: DUP-20-20230427 (400-236902-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Job ID: 400-236902-2 (Continued)

Laboratory: Eurofins Pensacola (Continued)

Method PrecSep_0: Radium-228 Prep Batch 160-611496. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4-20230426 (400-236902-1), MW-D5-20230427 (400-236902-2), MW-D6-20230426 (400-236902-3), MW-D7-20230427 (400-236902-4), MW-U2-20230426 (400-236902-5), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7) and DUP-6-20230427 (400-236902-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611031. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4-20230426 (400-236902-1), MW-D5-20230427 (400-236902-2), MW-D6-20230426 (400-236902-3), MW-D7-20230427 (400-236902-4), MW-U2-20230426 (400-236902-5), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7) and DUP-6-20230427 (400-236902-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611290. Insufficient sample volume was available to perform a sample duplicate for the following samples: DUP-20-20230427 (400-236902-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611496. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D4-20230426 (400-236902-1), MW-D5-20230427 (400-236902-2), MW-D6-20230426 (400-236902-3), MW-D7-20230427 (400-236902-4), MW-U2-20230426 (400-236902-5), MW-D8-20230427 (400-236902-6), MW-D9-20230427 (400-236902-7) and DUP-6-20230427 (400-236902-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

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

Job ID: 400-236902-2

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: 400-236902-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-236902-1	MW-D4-20230426	Water	04/26/23 16:45	04/29/23 07:44
400-236902-2	MW-D5-20230427	Water	04/27/23 08:51	04/29/23 07:44
400-236902-3	MW-D6-20230426	Water	04/26/23 15:10	04/29/23 07:44
400-236902-4	MW-D7-20230427	Water	04/27/23 10:37	04/29/23 07:44
400-236902-5	MW-U2-20230426	Water	04/26/23 13:44	04/29/23 07:44
400-236902-6	MW-D8-20230427	Water	04/27/23 12:07	04/29/23 07:44
400-236902-7	MW-D9-20230427	Water	04/27/23 12:05	04/29/23 07:44
400-236902-8	DUP-6-20230427	Water	04/27/23 12:00	04/29/23 07:44
400-236902-13	DUP-20-20230427	Water	04/27/23 12:00	04/29/23 07:44

Client Sample ID: MW-D4-20230426

Date Collected: 04/26/23 16:45
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0978	U	0.306	0.306	1.00	0.580	pCi/L	05/15/23 11:54	06/07/23 06:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.3*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:46*	*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	0.738	U G	0.725	0.728	1.00	1.16	pCi/L	05/15/23 13:17	06/06/23 13:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.3*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:14*	*1*
Y Carrier	*82.6*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:14*	*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	0.836	U	0.787	0.790	5.00	1.16	pCi/L		06/07/23 11:57	1

Client Sample Results

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

Job ID: 400-236902-2

Client Sample ID: MW-D5-20230427

Date Collected: 04/27/23 08:51
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121	U	0.335	0.336	1.00	0.620	pCi/L	05/15/23 11:54	06/07/23 06:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:46*	*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	0.519	U	0.604	0.606	1.00	0.992	pCi/L	05/15/23 13:17	06/06/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*1*
Y Carrier	*80.1*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*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	0.641	U	0.691	0.693	5.00	0.992	pCi/L		06/07/23 11:57	1

Client Sample ID: MW-D6-20230426

Date Collected: 04/26/23 15:10
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.390	U G	0.609	0.610	1.00	1.04	pCi/L	05/15/23 11:54	06/07/23 06:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*59.3*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:45*	*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	0.953	U G	1.00	1.00	1.00	1.62	pCi/L	05/15/23 13:17	06/06/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*59.3*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*1*
Y Carrier	*82.0*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*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	1.34	U	1.17	1.17	5.00	1.62	pCi/L		06/07/23 11:57	1

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

Job ID: 400-236902-2

Client Sample ID: MW-D7-20230427

Date Collected: 04/27/23 10:37
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-4

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259	U	0.421	0.422	1.00	0.727	pCi/L	05/15/23 11:54	06/07/23 06:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:45*	*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	0.964	U G	0.832	0.837	1.00	1.32	pCi/L	05/15/23 13:17	06/06/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*1*
Y Carrier	*84.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*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	1.22	U	0.932	0.937	5.00	1.32	pCi/L		06/07/23 11:57	1

Client Sample ID: MW-U2-20230426

Date Collected: 04/26/23 13:44
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-5

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.242	U	0.269	0.270	1.00	0.428	pCi/L	05/15/23 11:54	06/07/23 06:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:35*	*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	0.468	U	0.553	0.555	1.00	0.910	pCi/L	05/15/23 13:17	06/06/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*1*
Y Carrier	*84.3*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*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	0.710	U	0.615	0.617	5.00	0.910	pCi/L		06/07/23 11:57	1

Client Sample ID: MW-D8-20230427

Date Collected: 04/27/23 12:07
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-6

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.138	U	0.172	0.172	1.00	0.491	pCi/L	05/15/23 11:54	06/07/23 06:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:40*	*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	0.741	U G	0.982	0.985	1.00	1.64	pCi/L	05/15/23 13:17	06/06/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*1*
Y Carrier	*54.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:15*	*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	0.603	U	0.997	1.00	5.00	1.64	pCi/L		06/07/23 11:57	1

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

Job ID: 400-236902-2

Client Sample ID: MW-D9-20230427

Date Collected: 04/27/23 12:05
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-7

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182	U	0.265	0.265	1.00	0.453	pCi/L	05/15/23 11:54	06/07/23 06:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:40*	*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	-0.212	U G	0.671	0.671	1.00	1.31	pCi/L	05/15/23 13:17	06/06/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:16*	*1*
Y Carrier	*72.2*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:16*	*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	-0.0298	U	0.721	0.721	5.00	1.31	pCi/L		06/07/23 11:57	1

Client Sample ID: DUP-6-20230427

Date Collected: 04/27/23 12:00
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-8

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0743	U	0.209	0.209	1.00	0.496	pCi/L	05/15/23 11:54	06/07/23 06:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:40*	*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	**2.00**	**G**	0.991	1.01	1.00	1.36	pCi/L	05/15/23 13:17	06/06/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:16*	*1*
Y Carrier	*63.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:16*	*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	**1.92**		1.01	1.03	5.00	1.36	pCi/L		06/07/23 11:57	1

Definitions/Glossary

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

Job ID: 400-236902-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
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

Job ID: 400-236902-2

Client Sample ID: MW-D4-20230426
Lab Sample ID: 400-236902-1
Date Collected: 04/26/23 16:45
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614733	FLC	EET SL	06/07/23 06:46
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:14
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D5-20230427
Lab Sample ID: 400-236902-2
Date Collected: 04/27/23 08:51
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614733	FLC	EET SL	06/07/23 06:46
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:15
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D6-20230426
Lab Sample ID: 400-236902-3
Date Collected: 04/26/23 15:10
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614733	FLC	EET SL	06/07/23 06:45
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:15
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D7-20230427
Lab Sample ID: 400-236902-4
Date Collected: 04/27/23 10:37
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614733	FLC	EET SL	06/07/23 06:45
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:15
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Lab Chronicle

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

Job ID: 400-236902-2

Client Sample ID: MW-U2-20230426
Lab Sample ID: 400-236902-5
Date Collected: 04/26/23 13:44
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:35
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:15
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D8-20230427
Lab Sample ID: 400-236902-6
Date Collected: 04/27/23 12:07
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:40
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:15
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D9-20230427
Lab Sample ID: 400-236902-7
Date Collected: 04/27/23 12:05
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:40
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:16
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: DUP-6-20230427
Lab Sample ID: 400-236902-8
Date Collected: 04/27/23 12:00
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:40
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:16
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Lab Chronicle

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

Job ID: 400-236902-2

Client Sample ID: DUP-20-20230427

Date Collected: 04/27/23 12:00
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611290	KAC	EET SL	05/12/23 11:17
Total/NA	Analysis	9315		1	614545	SCB	EET SL	06/06/23 08:28
Total/NA	Prep	PrecSep_0			611300	KAC	EET SL	05/12/23 12:20
Total/NA	Analysis	9320		1	614272	SCB	EET SL	06/02/23 13:20
Total/NA	Analysis	Ra226_Ra228		1	614761	SCB	EET SL	06/07/23 12:07

Laboratory References:

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

Rad

Prep Batch: 611290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-13	DUP-20-20230427	Total/NA	Water	PrecSep-21	
MB 160-611290/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-611290/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-611290/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 611300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-13	DUP-20-20230427	Total/NA	Water	PrecSep_0	
MB 160-611300/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-611300/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-611300/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 611496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	PrecSep-21	
400-236902-2	MW-D5-20230427	Total/NA	Water	PrecSep-21	
400-236902-3	MW-D6-20230426	Total/NA	Water	PrecSep-21	
400-236902-4	MW-D7-20230427	Total/NA	Water	PrecSep-21	
400-236902-5	MW-U2-20230426	Total/NA	Water	PrecSep-21	
400-236902-6	MW-D8-20230427	Total/NA	Water	PrecSep-21	
400-236902-7	MW-D9-20230427	Total/NA	Water	PrecSep-21	
400-236902-8	DUP-6-20230427	Total/NA	Water	PrecSep-21	
MB 160-611496/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-611496/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-611496/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 611507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-1	MW-D4-20230426	Total/NA	Water	PrecSep_0	
400-236902-2	MW-D5-20230427	Total/NA	Water	PrecSep_0	
400-236902-3	MW-D6-20230426	Total/NA	Water	PrecSep_0	
400-236902-4	MW-D7-20230427	Total/NA	Water	PrecSep_0	
400-236902-5	MW-U2-20230426	Total/NA	Water	PrecSep_0	
400-236902-6	MW-D8-20230427	Total/NA	Water	PrecSep_0	
400-236902-7	MW-D9-20230427	Total/NA	Water	PrecSep_0	
400-236902-8	DUP-6-20230427	Total/NA	Water	PrecSep_0	
MB 160-611507/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-611507/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-611507/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-611290/1-A
Matrix: Water
Analysis Batch: 614545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611290

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.002034	U	0.0564	0.0564	1.00	0.122	pCi/L	05/12/23 11:17	06/06/23 08:27	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*05/12/23 11:17*	*06/06/23 08:27*	*1*

Lab Sample ID: LCS 160-611290/2-A
Matrix: Water
Analysis Batch: 614545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611290

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.49		1.15	1.00	0.119	pCi/L	93	75 - 113		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*

Lab Sample ID: LCSD 160-611290/3-A
Matrix: Water
Analysis Batch: 614545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611290

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.12		1.11	1.00	0.128	pCi/L	89	75 - 113	0.16	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*92.0*		*30 - 110*

Lab Sample ID: MB 160-611496/1-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611496

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02874	U	0.173	0.173	1.00	0.357	pCi/L	05/15/23 11:54	06/07/23 06:54	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.3*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:54*	*1*

Lab Sample ID: LCS 160-611496/2-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611496

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.314		1.20	1.00	0.303	pCi/L	82	75 - 113		

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-611496/2-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611496

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.3		30 - 110

Lab Sample ID: LCSD 160-611496/3-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611496

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.37		1.43	1.00	0.330	pCi/L	100	75 - 113	0.78	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	72.5		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-611300/1-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611300

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3316	U	0.352	0.354	1.00	0.572	pCi/L	05/12/23 12:20	06/02/23 13:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110	05/12/23 12:20	06/02/23 13:19	1
Y Carrier	84.8		30 - 110	05/12/23 12:20	06/02/23 13:19	1

Lab Sample ID: LCS 160-611300/2-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611300

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.15	9.475		1.34	1.00	0.589	pCi/L	116	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.0		30 - 110
Y Carrier	80.9		30 - 110

Lab Sample ID: LCSD 160-611300/3-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611300

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.15	8.439		1.23	1.00	0.611	pCi/L	104	75 - 125	0.40	1

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

Lab Sample ID: LCSD 160-611300/3-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611300

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	92.0		30 - 110
Y Carrier	81.2		30 - 110

Lab Sample ID: MB 160-611507/1-A
Matrix: Water
Analysis Batch: 614547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611507

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1895	U	0.393	0.394	1.00	0.683	pCi/L	05/15/23 13:17	06/06/23 13:06	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		30 - 110	05/15/23 13:17	06/06/23 13:06	1
Y Carrier	80.1		30 - 110	05/15/23 13:17	06/06/23 13:06	1

Lab Sample ID: LCS 160-611507/2-A
Matrix: Water
Analysis Batch: 614547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611507

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.14	10.25		1.43	1.00	0.654	pCi/L	126	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.3		30 - 110
Y Carrier	78.9		30 - 110

Lab Sample ID: LCSD 160-611507/3-A
Matrix: Water
Analysis Batch: 614547

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611507

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.14	9.754		1.42	1.00	0.680	pCi/L	120	75 - 125	0.18	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	72.5		30 - 110
Y Carrier	82.6		30 - 110

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-DH-20230426	04/26/23	16:45	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-DS-20230427	04/27/23	08:51	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D6-20230426	04/26/23	15:10	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D7-20230427	04/27/23	10:37	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 CC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained)
☐ Return To Client ☒ Disposal By Lab ☐ Archive

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by:	Date/Time: 4-29-2
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:

3355 McLemore Drive
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Trestan Ornduff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 484-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: (678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-U2-20230426	04/26/23	13:44	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D8-20230427	04/27/23	12:07	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D9-20230427	04/27/23	12:05	G	Water	N	N	X	X	X	X	X	X	X	X	
DUP-6-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retaine
☐ Return To Client ☒ Disposal By Lab ☐ Archi

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Trestan Ornduff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by: M
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 4-29-23

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 314
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information

Client Contact: Dawit Yifru	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Company: Geosyntec Consultants, Inc.	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Address: 1255 Roberts Blvd, NW Suite 200	PWSID:		
City: Kennesaw	Due Date Requested:		
State, Zip: GA, 30144	TAT Requested (days): Standard		
Phone: 678-202-9569	Compliance Project: Δ Yes Δ No		
Email: dyifru@geosyntec.com	PO #: Purchase Order not required		
Project Name: Crisp County CCR	WO #:		
Site: Crisp County Power	Project #: 40007960		
	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH						
MW-U1-20230426	04/26/23	11:52	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D1-20230426	04/26/23	13:33	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D2-20230426	04/26/23	16:51	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D3-20230427	04/27/23	08:48	G	Water	N	N	X	X	X	X	X	X	X	X						
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

400-236902 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are ret
☐ Return To Client ☑ Disposal By Lab ☐ A

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:
Date/Time:

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 414-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
DUP-20-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retain
☐ Return To Client ☑ Disposal By Lab ☐ Arch

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company Geosyntec	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:
Date/Time:

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-319611.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; NELAP - Louisiana (All)		Job #: 400-236902-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/2/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Crisp County Power	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Standard Target List	9320_Ra228/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-D4-20230426 (400-236902-1)	4/26/23	16:45 Eastern		Water			X	X	X	1	
MW-D5-20230427 (400-236902-2)	4/27/23	08:51 Eastern		Water			X	X	X	1	
MW-D6-20230426 (400-236902-3)	4/26/23	15:10 Eastern		Water			X	X	X	1	
MW-D7-20230427 (400-236902-4)	4/27/23	10:37 Eastern		Water			X	X	X	1	
MW-U2-20230426 (400-236902-5)	4/26/23	13:44 Eastern		Water			X	X	X	1	
MW-D8-20230427 (400-236902-6)	4/27/23	12:07 Eastern		Water			X	X	X	1	
MW-D9-20230427 (400-236902-7)	4/27/23	12:05 Eastern		Water			X	X	X	1	
DUP-6-20230427 (400-236902-8)	4/27/23	12:00 Eastern		Water			X	X	X	1	
MW-U1-20230426 (400-236902-9)	4/26/23	11:52 Eastern		Water			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	5/1/23 1710	ETAST	fedex		
	Relinquished by: fedex	Date/Time:	Company	Received by: [illegible]	Date/Time: 5/2/23 0845	Company ETASTL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-319611.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: Georgia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; NELAP - Louisiana (All)		Job #: 400-236902-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/2/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Crisp County Power	Project #: 40007960			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Standard Target List	9320_Ra228/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
MW-D1-20230426 (400-236902-10)	4/26/23	13:33 Eastern		Water				X	X	X	1	
MW-D2-20230426 (400-236902-11)	4/26/23	16:51 Eastern		Water				X	X	X	1	
MW-D3-20230427 (400-236902-12)	4/27/23	08:48 Eastern		Water				X	X	X	1	
DUP-20-20230427 (400-236902-13)	4/27/23	12:00 Eastern		Water				X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/1/23 17:00	ECS	fedex		
2	fedex				5/2/23 0845	ETASTL
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-2

Login Number: 236902
List Number: 1
Creator: Whitley, Adrian

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.	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	1.4, 3.7, 3.6, 2.3°C IR11
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-2

Login Number: 236902
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 05/02/23 01:44 PM

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

Accreditation/Certification Summary

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

Job ID: 400-236902-2

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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

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

400-236902-3

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

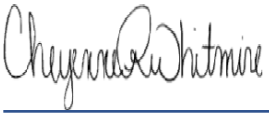
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-236902-3

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-236902-3

Receipt
The samples were received on 4/29/2023 7:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4º C, 2.3º C, 3.6º C and 3.7º C.

Metals
Method 6020: The post digestion spike % recovery for Antimony associated with batch 400-625600 was outside of control limits. The associated sample is: (400-236902-C-1-D PDS ^5).

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-623914 and analytical batch 400-625600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020: The method blank for preparation batch 400-623914 and analytical batch 400-625600 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-625706 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

General Chemistry
Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-624976 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-236929-A-2), (400-236929-A-2 MS) and (400-236929-A-2 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-623940 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-235966-B-1), (400-235966-B-1 MS) and (400-235966-B-1 MSD). Elevated reporting limits (RLs) are provided.

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

Detection Summary

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

Job ID: 400-236902-3

Client Sample ID: MW-U1-20230426 — Lab Sample ID: 400-236902-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0031		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.020	J B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	37		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0021	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Lithium	0.0058		0.0025	0.0049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.7	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D1-20230426 — Lab Sample ID: 400-236902-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.016		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.10	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	68		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0018	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00056	mg/L	5		6020	Total Recoverable
Selenium	0.00083	J	0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.083	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	26		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D2-20230426 — Lab Sample ID: 400-236902-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.19		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.12	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	130		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	370		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	14		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.78				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D3-20230427 — Lab Sample ID: 400-236902-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.060		0.0025	0.00070	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-D3-20230427 (Continued)

Lab Sample ID: 400-236902-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.17	B	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	87		0.25	0.13	mg/L	5		6020	Total Recoverable
Molybdenum	0.0052	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Selenium	0.0015		0.0013	0.00082	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	270		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	28		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.56				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-236902-3

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-236902-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-236902-9	MW-U1-20230426	Water	04/26/23 11:52	04/29/23 07:44
400-236902-10	MW-D1-20230426	Water	04/26/23 13:33	04/29/23 07:44
400-236902-11	MW-D2-20230426	Water	04/26/23 16:51	04/29/23 07:44
400-236902-12	MW-D3-20230427	Water	04/27/23 08:48	04/29/23 07:44

Client Sample Results

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

Job ID: 400-236902-3

Client Sample ID: MW-U1-20230426

Date Collected: 04/26/23 11:52
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 14:48	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 14:48	5
Barium	**0.0031**		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 14:48	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 14:48	5
Boron	**0.020**	**J B**	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 14:48	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 14:48	5
Calcium	**37**		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 14:48	5
Chromium	**0.0021**	**J**	0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 14:48	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 14:48	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 14:48	5
Lithium	**0.0058**		0.0025	0.0049	mg/L		05/08/23 13:20	05/18/23 14:48	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 14:48	5
Selenium	ND		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 14:48	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 14:48	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**110**		5.0	5.0	mg/L			05/03/23 09:13	1
Chloride (SM 4500 Cl- E)	**1.7**	**J**	2.0	1.4	mg/L			05/13/23 10:58	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			05/02/23 13:49	1
Sulfate (SM 4500 SO4 E)	**2.0**	**J**	5.0	1.4	mg/L			05/08/23 12:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.82**				SU			04/26/23 10:52	1

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

Job ID: 400-236902-3

Qualifiers

Metals

Qualifier	Qualifier Description
^5+	Linear Range Check (LRC) 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.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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
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.
¤	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: 400-236902-3

Client Sample ID: MW-U1-20230426
Date Collected: 04/26/23 11:52
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:48
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:14
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:58
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:25
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/26/23 10:52

Client Sample ID: MW-D1-20230426
Date Collected: 04/26/23 13:33
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:51
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:15
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:59
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:25
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/26/23 12:33

Client Sample ID: MW-D2-20230426
Date Collected: 04/26/23 16:51
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:54
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625706	NTH	EET PEN	05/19/23 13:52
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:17
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624780	CJK	EET PEN	05/13/23 10:59
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	623940	CJK	EET PEN	05/08/23 12:27
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/26/23 15:51

Lab Chronicle

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

Job ID: 400-236902-3

Client Sample ID: MW-D3-20230427

Date Collected: 04/27/23 08:48
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625600	NTH	EET PEN	05/18/23 14:57
Total Recoverable	Prep	3005A			623914	KWN	EET PEN	05/08/23 13:20 - 05/08/23 15:45 [1]
Total Recoverable	Analysis	6020		5	625706	NTH	EET PEN	05/19/23 13:55
Total/NA	Prep	7470A			623053	NET	EET PEN	05/02/23 08:50 - 05/02/23 11:28 [1]
Total/NA	Analysis	7470A		1	623349	NET	EET PEN	05/03/23 09:24
Total/NA	Analysis	SM 2540C		1	623280	HA	EET PEN	05/03/23 09:13
Total/NA	Analysis	SM 4500 Cl- E		1	624976	CJK	EET PEN	05/15/23 13:22
Total/NA	Analysis	SM 4500 F C		1	623192	JP	EET PEN	05/02/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		1	625380	CJK	EET PEN	05/17/23 18:44
Total/NA	Analysis	Field Sampling		1	623093	S1K	EET PEN	04/27/23 07:48

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 623053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	7470A	
400-236902-10	MW-D1-20230426	Total/NA	Water	7470A	
400-236902-11	MW-D2-20230426	Total/NA	Water	7470A	
400-236902-12	MW-D3-20230427	Total/NA	Water	7470A	
MB 400-623053/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-623053/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-236902-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-236902-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 623349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	7470A	623053
400-236902-10	MW-D1-20230426	Total/NA	Water	7470A	623053
400-236902-11	MW-D2-20230426	Total/NA	Water	7470A	623053
400-236902-12	MW-D3-20230427	Total/NA	Water	7470A	623053
MB 400-623053/14-A	Method Blank	Total/NA	Water	7470A	623053
LCS 400-623053/15-A	Lab Control Sample	Total/NA	Water	7470A	623053
400-236902-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	623053
400-236902-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	623053

Prep Batch: 623914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total Recoverable	Water	3005A	
400-236902-10	MW-D1-20230426	Total Recoverable	Water	3005A	
400-236902-11	MW-D2-20230426	Total Recoverable	Water	3005A	
400-236902-12	MW-D3-20230427	Total Recoverable	Water	3005A	
MB 400-623914/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-623914/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-236902-C-1-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-236902-C-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 625600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total Recoverable	Water	6020	623914
400-236902-10	MW-D1-20230426	Total Recoverable	Water	6020	623914
400-236902-11	MW-D2-20230426	Total Recoverable	Water	6020	623914
400-236902-12	MW-D3-20230427	Total Recoverable	Water	6020	623914
MB 400-623914/1-A ^5	Method Blank	Total Recoverable	Water	6020	623914
LCS 400-623914/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	623914
400-236902-C-1-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	623914
400-236902-C-1-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	623914

Analysis Batch: 625706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-11	MW-D2-20230426	Total Recoverable	Water	6020	623914
400-236902-12	MW-D3-20230427	Total Recoverable	Water	6020	623914
MB 400-623914/1-A ^5	Method Blank	Total Recoverable	Water	6020	623914

General Chemistry

Analysis Batch: 623192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	SM 4500 F C	
400-236902-10	MW-D1-20230426	Total/NA	Water	SM 4500 F C	
400-236902-11	MW-D2-20230426	Total/NA	Water	SM 4500 F C	
400-236902-12	MW-D3-20230427	Total/NA	Water	SM 4500 F C	
MB 400-623192/40	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-623192/42	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-623192/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-236902-B-7 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-236902-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 623280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	SM 2540C	
400-236902-10	MW-D1-20230426	Total/NA	Water	SM 2540C	
400-236902-11	MW-D2-20230426	Total/NA	Water	SM 2540C	
400-236902-12	MW-D3-20230427	Total/NA	Water	SM 2540C	
MB 400-623280/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-623280/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-236902-B-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 623940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	SM 4500 SO4 E	
400-236902-10	MW-D1-20230426	Total/NA	Water	SM 4500 SO4 E	
400-236902-11	MW-D2-20230426	Total/NA	Water	SM 4500 SO4 E	
MB 400-623940/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-623940/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-623940/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 624780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	SM 4500 Cl- E	
400-236902-10	MW-D1-20230426	Total/NA	Water	SM 4500 Cl- E	
400-236902-11	MW-D2-20230426	Total/NA	Water	SM 4500 Cl- E	
MB 400-624780/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-624780/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-624780/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-236902-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-236902-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 624976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-12	MW-D3-20230427	Total/NA	Water	SM 4500 Cl- E	
MB 400-624976/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-624976/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-624976/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-236929-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-236929-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

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

Job ID: 400-236902-3

General Chemistry

Analysis Batch: 625380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-12	MW-D3-20230427	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 623093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	Field Sampling	
400-236902-10	MW-D1-20230426	Total/NA	Water	Field Sampling	
400-236902-11	MW-D2-20230426	Total/NA	Water	Field Sampling	
400-236902-12	MW-D3-20230427	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-623914/1-A ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/08/23 13:20	05/18/23 13:36	5
Arsenic	ND		0.0013	0.0012	mg/L		05/08/23 13:20	05/18/23 13:36	5
Barium	ND		0.0025	0.00070	mg/L		05/08/23 13:20	05/18/23 13:36	5
Beryllium	ND		0.0020	0.00092	mg/L		05/08/23 13:20	05/18/23 13:36	5
Boron	0.00928	J	0.050	0.0012	mg/L		05/08/23 13:20	05/18/23 13:36	5
Cadmium	ND		0.0010	0.00065	mg/L		05/08/23 13:20	05/18/23 13:36	5
Calcium	ND		0.25	0.13	mg/L		05/08/23 13:20	05/18/23 13:36	5
Chromium	ND		0.0025	0.0010	mg/L		05/08/23 13:20	05/18/23 13:36	5
Cobalt	ND		0.0025	0.00056	mg/L		05/08/23 13:20	05/18/23 13:36	5
Lead	ND		0.0013	0.00081	mg/L		05/08/23 13:20	05/18/23 13:36	5
Molybdenum	ND		0.010	0.0013	mg/L		05/08/23 13:20	05/18/23 13:36	5
Selenium	ND		0.0013	0.00082	mg/L		05/08/23 13:20	05/18/23 13:36	5
Thallium	ND		0.00050	0.00046	mg/L		05/08/23 13:20	05/18/23 13:36	5

Lab Sample ID: MB 400-623914/1-A ^5
Matrix: Water
Analysis Batch: 625706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.0025	0.0049	mg/L		05/08/23 13:20	05/19/23 13:34	5

Lab Sample ID: LCS 400-623914/2-A ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0537		mg/L		107	80 - 120
Arsenic	0.0500	0.0489		mg/L		98	80 - 120
Barium	0.0500	0.0525		mg/L		105	80 - 120
Beryllium	0.0500	0.0522		mg/L		104	80 - 120
Boron	0.100	0.107		mg/L		107	80 - 120
Cadmium	0.0500	0.0519		mg/L		104	80 - 120
Calcium	5.00	5.13		mg/L		103	80 - 120
Chromium	0.0500	0.0511		mg/L		102	80 - 120
Cobalt	0.0500	0.0509		mg/L		102	80 - 120
Lead	0.0500	0.0527		mg/L		105	80 - 120
Lithium	0.0500	0.0553		mg/L		111	80 - 120
Molybdenum	0.0500	0.0526		mg/L		105	80 - 120
Selenium	0.0500	0.0514		mg/L		103	80 - 120
Thallium	0.0100	0.0106		mg/L		106	80 - 120

Lab Sample ID: 400-236902-C-1-E MS ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	0.0500	0.0628	F1	mg/L		126	75 - 125
Arsenic	ND		0.0500	0.0553		mg/L		111	75 - 125
Barium	0.026		0.0500	0.0828	^5+	mg/L		115	75 - 125

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

Lab Sample ID: 400-236902-C-1-E MS ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0500	0.0580		mg/L		116	75 - 125
Boron	0.026	J ^5+ B	0.100	0.151		mg/L		124	75 - 125
Cadmium	ND		0.0500	0.0594		mg/L		119	75 - 125
Calcium	50		5.00	56.0	E 4	mg/L		123	75 - 125
Chromium	ND	^5+	0.0500	0.0576	^5+	mg/L		115	75 - 125
Cobalt	ND		0.0500	0.0566		mg/L		113	75 - 125
Lead	ND		0.0500	0.0557		mg/L		111	75 - 125
Lithium	ND		0.0500	0.0554		mg/L		111	75 - 125
Molybdenum	ND		0.0500	0.0602		mg/L		120	75 - 125
Selenium	ND		0.0500	0.0559		mg/L		112	75 - 125
Thallium	ND		0.0100	0.0113		mg/L		113	75 - 125

Lab Sample ID: 400-236902-C-1-F MSD ^5
Matrix: Water
Analysis Batch: 625600

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 623914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	0.0500	0.0589		mg/L		118	75 - 125	6	20
Arsenic	ND		0.0500	0.0549		mg/L		110	75 - 125	1	20
Barium	0.026		0.0500	0.0817	^5+	mg/L		112	75 - 125	1	20
Beryllium	ND		0.0500	0.0547		mg/L		109	75 - 125	6	20
Boron	0.026	J ^5+ B	0.100	0.135		mg/L		109	75 - 125	11	20
Cadmium	ND		0.0500	0.0564		mg/L		113	75 - 125	5	20
Calcium	50		5.00	56.9	E 4	mg/L		139	75 - 125	1	20
Chromium	ND	^5+	0.0500	0.0569	^5+	mg/L		114	75 - 125	1	20
Cobalt	ND		0.0500	0.0565		mg/L		113	75 - 125	0	20
Lead	ND		0.0500	0.0559		mg/L		112	75 - 125	0	20
Lithium	ND		0.0500	0.0498		mg/L		100	75 - 125	11	20
Molybdenum	ND		0.0500	0.0574		mg/L		115	75 - 125	5	20
Selenium	ND		0.0500	0.0506		mg/L		101	75 - 125	10	20
Thallium	ND		0.0100	0.0117		mg/L		117	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-623053/14-A
Matrix: Water
Analysis Batch: 623349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/02/23 08:50	05/03/23 08:52	1

Lab Sample ID: LCS 400-623053/15-A
Matrix: Water
Analysis Batch: 623349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.000870		mg/L		86	80 - 120

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

Lab Sample ID: 400-236902-C-1-B MS
Matrix: Water
Analysis Batch: 623349

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00201		mg/L		100	80 - 120

Lab Sample ID: 400-236902-C-1-C MSD
Matrix: Water
Analysis Batch: 623349

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00187		mg/L		93	80 - 120	7	20

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

Lab Sample ID: MB 400-623280/1
Matrix: Water
Analysis Batch: 623280

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			05/03/23 09:13	1

Lab Sample ID: LCS 400-623280/2
Matrix: Water
Analysis Batch: 623280

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: 400-236902-B-5 DU
Matrix: Water
Analysis Batch: 623280

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	84		84.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-624780/13
Matrix: Water
Analysis Batch: 624780

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			05/13/23 10:54	1

Lab Sample ID: LCS 400-624780/14
Matrix: Water
Analysis Batch: 624780

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	54.3		mg/L		109	90 - 110

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

Lab Sample ID: MRL 400-624780/15
Matrix: Water
Analysis Batch: 624780

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	2.19		mg/L		110	50 - 150		

Lab Sample ID: 400-236902-B-1 MS
Matrix: Water
Analysis Batch: 624780

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	1.8	J	10.0	10.6		mg/L		88	73 - 120		

Lab Sample ID: 400-236902-B-1 MSD
Matrix: Water
Analysis Batch: 624780

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	1.8	J	10.0	10.7		mg/L		90	73 - 120	1	8

Lab Sample ID: MB 400-624976/5
Matrix: Water
Analysis Batch: 624976

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			05/15/23 13:17	1

Lab Sample ID: LCS 400-624976/6
Matrix: Water
Analysis Batch: 624976

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	50.6		mg/L		101	90 - 110		

Lab Sample ID: MRL 400-624976/7
Matrix: Water
Analysis Batch: 624976

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	2.14		mg/L		107	50 - 150		

Lab Sample ID: 400-236929-A-2 MS
Matrix: Water
Analysis Batch: 624976

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	25000		40.0	1790	4	mg/L		-5905 5	73 - 120		

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

Lab Sample ID: 400-236929-A-2 MSD
Matrix: Water
Analysis Batch: 624976

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	25000		40.0	1790	4	mg/L		-5904 9	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-623192/40
Matrix: Water
Analysis Batch: 623192

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	0.070	mg/L			05/02/23 13:49	1

Lab Sample ID: LCS 400-623192/42
Matrix: Water
Analysis Batch: 623192

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	5.18		mg/L		104	90 - 110

Lab Sample ID: MRL 400-623192/11
Matrix: Water
Analysis Batch: 623192

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	0.0975	J	mg/L		97	

Lab Sample ID: 400-236902-B-7 MS
Matrix: Water
Analysis Batch: 623192

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	0.083	J	0.100	0.178		mg/L		95	75 - 125

Lab Sample ID: 400-236902-B-7 MSD
Matrix: Water
Analysis Batch: 623192

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	0.083	J	0.100	0.185		mg/L		102	75 - 125	4	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-623940/12
Matrix: Water
Analysis Batch: 623940

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			05/08/23 12:21	1

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

Lab Sample ID: LCS 400-623940/13
Matrix: Water
Analysis Batch: 623940

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	16.1		mg/L		107	90 - 110

Lab Sample ID: MRL 400-623940/14
Matrix: Water
Analysis Batch: 623940

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	5.42		mg/L		108	50 - 150

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-DH-20230426	04/26/23	16:45	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-DS-20230427	04/27/23	08:51	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D6-20230426	04/26/23	15:10	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D7-20230427	04/27/23	10:37	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained)
☐ Return To Client ☒ Disposal By Lab ☐ Archive

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by:	Date/Time: 4-29-2
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:

3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Trestan Ornduff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 484-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: (678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-U2-20230426	04/26/23	13:44	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D8-20230427	04/27/23	12:07	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D9-20230427	04/27/23	12:05	G	Water	N	N	X	X	X	X	X	X	X	X	
DUP-6-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retaine
☐ Return To Client ☒ Disposal By Lab ☐ Archi

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Trestan Ornduff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by: M
Relinquished by:	Date/Time:	Company	Received by:

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

Chain of Custody Record

Client Information

Client Contact: Dawit Yifru	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Company: Geosyntec Consultants, Inc.	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Address: 1255 Roberts Blvd, NW Suite 200	PWSID:		
City: Kennesaw	Due Date Requested:		
State, Zip: GA, 30144	TAT Requested (days): Standard		
Phone: 678-202-9569	Compliance Project: Δ Yes Δ No		
Email: dyifru@geosyntec.com	PO #: Purchase Order not required		
Project Name: Crisp County CCR	WO #:		
Site: Crisp County Power	Project #: 40007960		
	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH						
MW-U1-20230426	04/26/23	11:52	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D1-20230426	04/26/23	13:33	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D2-20230426	04/26/23	16:51	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D3-20230427	04/27/23	08:48	G	Water	N	N	X	X	X	X	X	X	X	X						
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

400-236902 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are ret
☐ Return To Client ☑ Disposal By Lab ☐ A

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company: Geo	Received by: / Date/Time:
Relinquished by:	Date/Time:	Company	Received by: / Date/Time:

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
DUP-20-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retain
☐ Return To Client ☑ Disposal By Lab ☐ Arch

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-3

Login Number: 236902
List Number: 1
Creator: Whitley, Adrian

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.	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	1.4, 3.7, 3.6, 2.3°C IR11
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

Job ID: 400-236902-3

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2023 2:46:28 PM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-236902-4

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

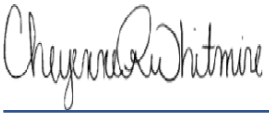
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-236902-4

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-236902-4

Receipt
The samples were received on 4/29/2023 7:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4º C, 2.3º C, 3.6º C and 3.7º C.

RAD
Method 9315: Radium-226 batch 611290. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D3-20230427 (400-236902-12), (LCS 160-611290/2-A), (LCSD 160-611290/3-A) and (MB 160-611290/1-A)

Method 9315: Radium-226 batch 611496. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10), MW-D2-20230426 (400-236902-11), (LCS 160-611496/2-A), (LCSD 160-611496/3-A) and (MB 160-611496/1-A)

Method 9320: Radium-228 prep batch 160-611300. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D3-20230427 (400-236902-12), (LCS 160-611300/2-A), (LCSD 160-611300/3-A) and (MB 160-611300/1-A)

Method 9320: Radium-228 batch 611507. The LCS recovered at (126%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required. (LCS 160-611507/2-A)

Method 9320: Radium-228 batch 611507. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10), MW-D2-20230426 (400-236902-11), (LCS 160-611507/2-A), (LCSD 160-611507/3-A) and (MB 160-611507/1-A)

Method 9320: Radium-228 prep batch 160-611507. The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to limited volume available for analysis. The data have been reported with this narrative. MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11)

Method PrecSep_0: Radium-228 Prep Batch 160-611042. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-611300. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D3-20230427 (400-236902-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-611496. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611031. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611290. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D3-20230427 (400-236902-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD)

Job ID: 400-236902-4 (Continued)

Laboratory: Eurofins Pensacola (Continued)

were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611496. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

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

Job ID: 400-236902-4

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: 400-236902-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-236902-9	MW-U1-20230426	Water	04/26/23 11:52	04/29/23 07:44
400-236902-10	MW-D1-20230426	Water	04/26/23 13:33	04/29/23 07:44
400-236902-11	MW-D2-20230426	Water	04/26/23 16:51	04/29/23 07:44
400-236902-12	MW-D3-20230427	Water	04/27/23 08:48	04/29/23 07:44

Client Sample ID: MW-U1-20230426

Date Collected: 04/26/23 11:52
Date Received: 04/29/23 07:44

Lab Sample ID: 400-236902-9

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.412	U	0.415	0.416	1.00	0.636	pCi/L	05/15/23 11:54	06/07/23 06:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*57.5*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:32*	*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	0.982	U G	1.06	1.06	1.00	1.72	pCi/L	05/15/23 13:17	06/06/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*57.5*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:16*	*1*
Y Carrier	*79.8*		*30 - 110*	*05/15/23 13:17*	*06/06/23 13:16*	*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	1.39	U	1.14	1.14	5.00	1.72	pCi/L		06/07/23 11:57	1

Definitions/Glossary

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

Job ID: 400-236902-4

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
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

Job ID: 400-236902-4

Client Sample ID: MW-U1-20230426
Lab Sample ID: 400-236902-9
Date Collected: 04/26/23 11:52
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:32
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:16
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D1-20230426
Lab Sample ID: 400-236902-10
Date Collected: 04/26/23 13:33
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:32
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:16
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D2-20230426
Lab Sample ID: 400-236902-11
Date Collected: 04/26/23 16:51
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611496	KAC	EET SL	05/15/23 11:54
Total/NA	Analysis	9315		1	614732	FLC	EET SL	06/07/23 06:36
Total/NA	Prep	PrecSep_0			611507	KAC	EET SL	05/15/23 13:17
Total/NA	Analysis	9320		1	614548	FLC	EET SL	06/06/23 13:16
Total/NA	Analysis	Ra226_Ra228		1	614752	SCB	EET SL	06/07/23 11:57

Client Sample ID: MW-D3-20230427
Lab Sample ID: 400-236902-12
Date Collected: 04/27/23 08:48
Matrix: Water
Date Received: 04/29/23 07:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			611290	KAC	EET SL	05/12/23 11:17
Total/NA	Analysis	9315		1	614545	SCB	EET SL	06/06/23 08:28
Total/NA	Prep	PrecSep_0			611300	KAC	EET SL	05/12/23 12:20
Total/NA	Analysis	9320		1	614272	SCB	EET SL	06/02/23 13:20
Total/NA	Analysis	Ra226_Ra228		1	614761	SCB	EET SL	06/07/23 12:07

Laboratory References:

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

Rad

Prep Batch: 611290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-12	MW-D3-20230427	Total/NA	Water	PrecSep-21	
MB 160-611290/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-611290/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-611290/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 611300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-12	MW-D3-20230427	Total/NA	Water	PrecSep_0	
MB 160-611300/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-611300/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-611300/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 611496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	PrecSep-21	
400-236902-10	MW-D1-20230426	Total/NA	Water	PrecSep-21	
400-236902-11	MW-D2-20230426	Total/NA	Water	PrecSep-21	
MB 160-611496/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-611496/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-611496/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 611507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-236902-9	MW-U1-20230426	Total/NA	Water	PrecSep_0	
400-236902-10	MW-D1-20230426	Total/NA	Water	PrecSep_0	
400-236902-11	MW-D2-20230426	Total/NA	Water	PrecSep_0	
MB 160-611507/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-611507/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-611507/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-611290/1-A
Matrix: Water
Analysis Batch: 614545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611290

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.002034	U	0.0564	0.0564	1.00	0.122	pCi/L	05/12/23 11:17	06/06/23 08:27	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*05/12/23 11:17*	*06/06/23 08:27*	*1*

Lab Sample ID: LCS 160-611290/2-A
Matrix: Water
Analysis Batch: 614545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611290

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.49		1.15	1.00	0.119	pCi/L	93	75 - 113		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*

Lab Sample ID: LCSD 160-611290/3-A
Matrix: Water
Analysis Batch: 614545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611290

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.12		1.11	1.00	0.128	pCi/L	89	75 - 113	0.16	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*92.0*		*30 - 110*

Lab Sample ID: MB 160-611496/1-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611496

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02874	U	0.173	0.173	1.00	0.357	pCi/L	05/15/23 11:54	06/07/23 06:54	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.3*		*30 - 110*	*05/15/23 11:54*	*06/07/23 06:54*	*1*

Lab Sample ID: LCS 160-611496/2-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611496

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.314		1.20	1.00	0.303	pCi/L	82	75 - 113		

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-611496/2-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611496

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.3		30 - 110

Lab Sample ID: LCSD 160-611496/3-A
Matrix: Water
Analysis Batch: 614731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611496

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.37		1.43	1.00	0.330	pCi/L	100	75 - 113	0.78	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	72.5		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-611300/1-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611300

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3316	U	0.352	0.354	1.00	0.572	pCi/L	05/12/23 12:20	06/02/23 13:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110	05/12/23 12:20	06/02/23 13:19	1
Y Carrier	84.8		30 - 110	05/12/23 12:20	06/02/23 13:19	1

Lab Sample ID: LCS 160-611300/2-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611300

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.15	9.475		1.34	1.00	0.589	pCi/L	116	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.0		30 - 110
Y Carrier	80.9		30 - 110

Lab Sample ID: LCSD 160-611300/3-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611300

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.15	8.439		1.23	1.00	0.611	pCi/L	104	75 - 125	0.40	1

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

Lab Sample ID: LCSD 160-611300/3-A
Matrix: Water
Analysis Batch: 614272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611300

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	92.0		30 - 110
Y Carrier	81.2		30 - 110

Lab Sample ID: MB 160-611507/1-A
Matrix: Water
Analysis Batch: 614547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611507

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1895	U	0.393	0.394	1.00	0.683	pCi/L	05/15/23 13:17	06/06/23 13:06	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		30 - 110	05/15/23 13:17	06/06/23 13:06	1
Y Carrier	80.1		30 - 110	05/15/23 13:17	06/06/23 13:06	1

Lab Sample ID: LCS 160-611507/2-A
Matrix: Water
Analysis Batch: 614547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611507

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.14	10.25		1.43	1.00	0.654	pCi/L	126	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.3		30 - 110
Y Carrier	78.9		30 - 110

Lab Sample ID: LCSD 160-611507/3-A
Matrix: Water
Analysis Batch: 614547

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 611507

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.14	9.754		1.42	1.00	0.680	pCi/L	120	75 - 125	0.18	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	72.5		30 - 110
Y Carrier	82.6		30 - 110

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-DH-20230426	04/26/23	16:45	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-DS-20230427	04/27/23	08:51	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D6-20230426	04/26/23	15:10	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D7-20230427	04/27/23	10:37	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 CC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained)
☐ Return To Client ☒ Disposal By Lab ☐ Archive

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by:	Date/Time: 4-29-2
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:

3355 McLemore Drive
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Trestan Ornduff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 484-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): Standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: (678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
MW-U2-20230426	04/26/23	13:44	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D8-20230427	04/27/23	12:07	G	Water	N	N	X	X	X	X	X	X	X	X	
MW-D9-20230427	04/27/23	12:05	G	Water	N	N	X	X	X	X	X	X	X	X	
DUP-6-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

400-236902 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retaine
☐ Return To Client ☒ Disposal By Lab ☐ Archi

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Trestan Ornduff	Date/Time: 4/28/23 12:45	Company: Geosyntec	Received by: M
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 4-29-23

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 314
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 404-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH						
MW-U1-20230426	04/26/23	11:52	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D1-20230426	04/26/23	13:33	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D2-20230426	04/26/23	16:51	G	Water	N	N	X	X	X	X	X	X	X	X						
MW-D3-20230427	04/27/23	08:48	G	Water	N	N	X	X	X	X	X	X	X	X						
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

400-236902 COC

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are ret
☐ Return To Client ☑ Disposal By Lab ☐ A

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by: Date/Time:

Eurofins Pensacola
3355 McLemo Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custo Record

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Dawit Yifru	Phone: 414-625-0058	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:
Company: Geosyntec Consultants, Inc.	PWSID:		
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:		
City: Kennesaw	TAT Requested (days): standard		
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No		
Phone: 678-202-9569	PO #: Purchase Order not required		
Email: dyifru@geosyntec.com	WO #:		
Project Name: Crisp County CCR	Project #: 40007960		
Site: Crisp County Power	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers
DUP-20-20230427	04/27/23	00:00	G	Water	N	N	X	X	X	X	X	X	X	X	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retain
☐ Return To Client ☒ Disposal By Lab ☐ Arch

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tristan Orndorff	Date/Time: 4/28/23 12:45	Company Geosyntec	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:
Date/Time:

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-4

Login Number: 236902
List Number: 1
Creator: Whitley, Adrian

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.	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	1.4, 3.7, 3.6, 2.3°C IR11
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-4

Login Number: 236902
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 05/02/23 01:44 PM

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

Accreditation/Certification Summary

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

Job ID: 400-236902-4

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

eurofins | Environment Testing

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

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 CCR
SDG NUMBER Crisp County Power

JOB NUMBER

400-239196-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

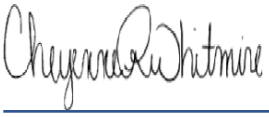
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-239196-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-239196-1

Receipt
The samples were received on 6/15/2023 9:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

Metals
Method 6020B: The ICV for batch 400-631473 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020B: The ICV for batch 400-631628 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-630026 and analytical batch 400-630397 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

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

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-U1-20230612 — Lab Sample ID: 400-239196-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0027		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020B	Total Recoverable
Chromium	0.058		0.0025	0.0021	mg/L	5		6020B	Total Recoverable
Selenium	0.053		0.0013	0.00082	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	120		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	0.080	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.79				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U2-20230612 — Lab Sample ID: 400-239196-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0099		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	19		0.25	0.13	mg/L	5		6020B	Total Recoverable
Selenium	0.0016		0.0013	0.00082	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	96		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	27		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.79				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D4-20230612 — Lab Sample ID: 400-239196-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.025		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	48		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	150		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.15		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Field pH	7.76				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D5-20230613 — Lab Sample ID: 400-239196-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.032		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	42		0.25	0.13	mg/L	5		6020B	Total Recoverable
Selenium	0.0010	J	0.0013	0.00082	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	8.6		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.05				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-239196-1
SDG: Crisp County Power

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-239196-1
SDG: Crisp County Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-239196-1	MW-U1-20230612	Water	06/12/23 13:40	06/15/23 09:29
400-239196-2	MW-U2-20230612	Water	06/12/23 15:05	06/15/23 09:29
400-239196-3	MW-D4-20230612	Water	06/12/23 16:20	06/15/23 09:29
400-239196-4	MW-D5-20230613	Water	06/13/23 12:25	06/15/23 09:29

Client Sample Results

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

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-U1-20230612

Date Collected: 06/12/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:05	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:05	5
Barium	**0.0027**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:05	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:05	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:05	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:05	5
Calcium	**35**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:05	5
Chromium	**0.058**		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 23:08	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:05	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:05	5
Lithium	ND	^3+	0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 02:05	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:05	5
Selenium	**0.053**		0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 23:08	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:05	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1	0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 15:50	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			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**1.9**	**J**	2.0	1.4	mg/L			06/28/23 10:47	1
Fluoride (SM 4500 F C)	**0.080**	**J**	0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	**1.5**	**J**	5.0	1.4	mg/L			06/27/23 14:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.79**				SU			06/12/23 12:40	1

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

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-U2-20230612

Date Collected: 06/12/23 15:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:08	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:08	5
Barium	**0.0099**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:08	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:08	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:08	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:08	5
Calcium	**19**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:08	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:08	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:08	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:08	5
Lithium	ND	^3+	0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 02:08	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:08	5
Selenium	**0.0016**		0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 23:11	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:08	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**96**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**2.3**		2.0	1.4	mg/L			06/28/23 10:48	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	**27**		5.0	1.4	mg/L			06/27/23 14:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.79**				SU			06/12/23 14:05	1

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

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-D4-20230612

Date Collected: 06/12/23 16:20
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:11	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:11	5
Barium	**0.025**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:11	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:11	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:11	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:11	5
Calcium	**48**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:11	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:11	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:11	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:11	5
Lithium	ND	^3+	0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 02:11	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:11	5
Selenium	ND		0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 23:14	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:11	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**2.1**		2.0	1.4	mg/L			06/28/23 10:49	1
Fluoride (SM 4500 F C)	**0.15**		0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			06/27/23 14:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.76**				SU			06/12/23 15:20	1

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

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-D5-20230613

Lab Sample ID: 400-239196-4

Date Collected: 06/13/23 12:25

Matrix: Water

Date Received: 06/15/23 09:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:14	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:14	5
Barium	**0.032**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:14	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:14	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:14	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:14	5
Calcium	**42**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:14	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:14	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:14	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:14	5
Lithium	ND	^3+	0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 02:14	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:14	5
Selenium	**0.0010**	**J**	0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 23:17	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:14	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**180**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**8.6**		2.0	1.4	mg/L			06/28/23 10:49	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	**1.4**	**J**	5.0	1.4	mg/L			06/27/23 14:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.05**				SU			06/13/23 11:25	1

Definitions/Glossary

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

Job ID: 400-239196-1
SDG: Crisp County Power

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
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 CCR

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-U1-20230612
Date Collected: 06/12/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:05
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631628	NTH	EET PEN	06/30/23 23:08
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/21/23 15:50
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	631181	CJK	EET PEN	06/28/23 10:47
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02
Total/NA	Analysis	SM 4500 SO4 E		1	631038	CJK	EET PEN	06/27/23 14:08
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/12/23 12:40

Client Sample ID: MW-U2-20230612
Date Collected: 06/12/23 15:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:08
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631628	NTH	EET PEN	06/30/23 23:11
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/21/23 16:26
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	631181	CJK	EET PEN	06/28/23 10:48
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02
Total/NA	Analysis	SM 4500 SO4 E		1	631038	CJK	EET PEN	06/27/23 14:09
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/12/23 14:05

Client Sample ID: MW-D4-20230612
Date Collected: 06/12/23 16:20
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:11
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631628	NTH	EET PEN	06/30/23 23:14
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/21/23 16:28
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	631181	CJK	EET PEN	06/28/23 10:49
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02

Lab Chronicle

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

Job ID: 400-239196-1
SDG: Crisp County Power

Client Sample ID: MW-D4-20230612

Lab Sample ID: 400-239196-3

Date Collected: 06/12/23 16:20
Matrix: Water
Date Received: 06/15/23 09:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		1	631038	CJK	EET PEN	06/27/23 14:10
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/12/23 15:20

Client Sample ID: MW-D5-20230613

Lab Sample ID: 400-239196-4

Date Collected: 06/13/23 12:25
Matrix: Water
Date Received: 06/15/23 09:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:14
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631628	NTH	EET PEN	06/30/23 23:17
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/21/23 16:29
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	631181	CJK	EET PEN	06/28/23 10:49
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02
Total/NA	Analysis	SM 4500 SO4 E		1	631038	CJK	EET PEN	06/27/23 14:10
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 11:25

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 630026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	7470A	
400-239196-2	MW-U2-20230612	Total/NA	Water	7470A	
400-239196-3	MW-D4-20230612	Total/NA	Water	7470A	
400-239196-4	MW-D5-20230613	Total/NA	Water	7470A	
MB 400-630026/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-630026/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-239196-1 MS	MW-U1-20230612	Total/NA	Water	7470A	
400-239196-1 MSD	MW-U1-20230612	Total/NA	Water	7470A	

Analysis Batch: 630397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	7470A	630026
400-239196-2	MW-U2-20230612	Total/NA	Water	7470A	630026
400-239196-3	MW-D4-20230612	Total/NA	Water	7470A	630026
400-239196-4	MW-D5-20230613	Total/NA	Water	7470A	630026
MB 400-630026/14-A	Method Blank	Total/NA	Water	7470A	630026
LCS 400-630026/15-A	Lab Control Sample	Total/NA	Water	7470A	630026
400-239196-1 MS	MW-U1-20230612	Total/NA	Water	7470A	630026
400-239196-1 MSD	MW-U1-20230612	Total/NA	Water	7470A	630026

Prep Batch: 631209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total Recoverable	Water	3005A	
400-239196-2	MW-U2-20230612	Total Recoverable	Water	3005A	
400-239196-3	MW-D4-20230612	Total Recoverable	Water	3005A	
400-239196-4	MW-D5-20230613	Total Recoverable	Water	3005A	
MB 400-631209/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-631209/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-239576-E-1-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-239576-E-1-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 631473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total Recoverable	Water	6020B	631209
400-239196-2	MW-U2-20230612	Total Recoverable	Water	6020B	631209
400-239196-3	MW-D4-20230612	Total Recoverable	Water	6020B	631209
400-239196-4	MW-D5-20230613	Total Recoverable	Water	6020B	631209
MB 400-631209/1-A ^5	Method Blank	Total Recoverable	Water	6020B	631209
LCS 400-631209/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	631209
400-239576-E-1-C MS ^5	Matrix Spike	Total Recoverable	Water	6020B	631209
400-239576-E-1-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020B	631209

Analysis Batch: 631628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total Recoverable	Water	6020B	631209
400-239196-2	MW-U2-20230612	Total Recoverable	Water	6020B	631209
400-239196-3	MW-D4-20230612	Total Recoverable	Water	6020B	631209
400-239196-4	MW-D5-20230613	Total Recoverable	Water	6020B	631209
MB 400-631209/1-A ^5	Method Blank	Total Recoverable	Water	6020B	631209
LCS 400-631209/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	631209

General Chemistry

Analysis Batch: 629853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	SM 2540C	
400-239196-2	MW-U2-20230612	Total/NA	Water	SM 2540C	
400-239196-3	MW-D4-20230612	Total/NA	Water	SM 2540C	
400-239196-4	MW-D5-20230613	Total/NA	Water	SM 2540C	
MB 400-629853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-629853/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-239003-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 631038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	SM 4500 SO4 E	
400-239196-2	MW-U2-20230612	Total/NA	Water	SM 4500 SO4 E	
400-239196-3	MW-D4-20230612	Total/NA	Water	SM 4500 SO4 E	
400-239196-4	MW-D5-20230613	Total/NA	Water	SM 4500 SO4 E	
MB 400-631038/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-631038/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-631038/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-239196-1 MS	MW-U1-20230612	Total/NA	Water	SM 4500 SO4 E	
400-239196-1 MSD	MW-U1-20230612	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 631181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	SM 4500 Cl- E	
400-239196-2	MW-U2-20230612	Total/NA	Water	SM 4500 Cl- E	
400-239196-3	MW-D4-20230612	Total/NA	Water	SM 4500 Cl- E	
400-239196-4	MW-D5-20230613	Total/NA	Water	SM 4500 Cl- E	
MB 400-631181/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-631181/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-631181/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-239196-1 MS	MW-U1-20230612	Total/NA	Water	SM 4500 Cl- E	
400-239196-1 MSD	MW-U1-20230612	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 631326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	SM 4500 F C	
400-239196-2	MW-U2-20230612	Total/NA	Water	SM 4500 F C	
400-239196-3	MW-D4-20230612	Total/NA	Water	SM 4500 F C	
400-239196-4	MW-D5-20230613	Total/NA	Water	SM 4500 F C	
MB 400-631326/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-631326/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-631326/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-239196-2 MS	MW-U2-20230612	Total/NA	Water	SM 4500 F C	
400-239196-2 MSD	MW-U2-20230612	Total/NA	Water	SM 4500 F C	
400-239198-B-2 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 629480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	Field Sampling	
400-239196-2	MW-U2-20230612	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 629480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-3	MW-D4-20230612	Total/NA	Water	Field Sampling	
400-239196-4	MW-D5-20230613	Total/NA	Water	Field Sampling	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-631209/1-A ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 00:25	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 00:25	5
Barium	ND		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 00:25	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 00:25	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 00:25	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 00:25	5
Calcium	ND		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 00:25	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 00:25	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 00:25	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 00:25	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 00:25	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 00:25	5

Lab Sample ID: MB 400-631209/1-A ^5
Matrix: Water
Analysis Batch: 631628

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 21:38	5
Selenium	ND		0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 21:38	5

Lab Sample ID: LCS 400-631209/2-A ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0541		mg/L		108	80 - 120
Arsenic	0.0500	0.0515		mg/L		103	80 - 120
Barium	0.0500	0.0532		mg/L		106	80 - 120
Beryllium	0.0500	0.0527		mg/L		105	80 - 120
Boron	0.100	0.104		mg/L		104	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	5.00	5.20		mg/L		104	80 - 120
Chromium	0.0500	0.0527		mg/L		105	80 - 120
Cobalt	0.0500	0.0518		mg/L		104	80 - 120
Lead	0.0500	0.0529		mg/L		106	80 - 120
Molybdenum	0.0500	0.0497		mg/L		99	80 - 120
Thallium	0.0100	0.0108		mg/L		108	80 - 120

Lab Sample ID: LCS 400-631209/2-A ^5
Matrix: Water
Analysis Batch: 631628

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0500	0.0499		mg/L		100	80 - 120
Selenium	0.0500	0.0580		mg/L		116	80 - 120

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

Lab Sample ID: 400-239576-E-1-C MS ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0035		0.0500	0.0443		mg/L		82	75 - 125
Arsenic	0.0014		0.0500	0.0494		mg/L		96	75 - 125
Barium	0.10		0.0500	0.158		mg/L		109	75 - 125
Beryllium	ND		0.0500	0.0516		mg/L		103	75 - 125
Boron	ND	F1	0.100	0.126	F1	mg/L		126	75 - 125
Cadmium	ND		0.0500	0.0533		mg/L		107	75 - 125
Calcium	7.7		5.00	12.6		mg/L		98	75 - 125
Chromium	0.0086	^2	0.0500	0.0589		mg/L		101	75 - 125
Cobalt	0.0066		0.0500	0.0576		mg/L		102	75 - 125
Lead	0.012	^5+	0.0500	0.0640		mg/L		105	75 - 125
Lithium	0.015	^3+ B ^2	0.0500	0.0678	^3+	mg/L		105	75 - 125
Molybdenum	ND		0.0500	0.0481		mg/L		96	75 - 125
Selenium	0.0028	B ^2 *+	0.0500	0.0460		mg/L		86	75 - 125
Thallium	ND		0.0100	0.0105		mg/L		105	75 - 125

Lab Sample ID: 400-239576-E-1-D MSD ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0035		0.0500	0.0430		mg/L		79	75 - 125	3	20
Arsenic	0.0014		0.0500	0.0476		mg/L		92	75 - 125	4	20
Barium	0.10		0.0500	0.156		mg/L		104	75 - 125	2	20
Beryllium	ND		0.0500	0.0519		mg/L		104	75 - 125	0	20
Boron	ND	F1	0.100	0.125		mg/L		125	75 - 125	1	20
Cadmium	ND		0.0500	0.0523		mg/L		105	75 - 125	2	20
Calcium	7.7		5.00	12.7		mg/L		100	75 - 125	1	20
Chromium	0.0086	^2	0.0500	0.0587		mg/L		100	75 - 125	0	20
Cobalt	0.0066		0.0500	0.0577		mg/L		102	75 - 125	0	20
Lead	0.012	^5+	0.0500	0.0642		mg/L		105	75 - 125	0	20
Lithium	0.015	^3+ B ^2	0.0500	0.0682	^3+	mg/L		106	75 - 125	1	20
Molybdenum	ND		0.0500	0.0445		mg/L		89	75 - 125	8	20
Selenium	0.0028	B ^2 *+	0.0500	0.0433		mg/L		81	75 - 125	6	20
Thallium	ND		0.0100	0.0107		mg/L		107	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-630026/14-A
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 15:45	1

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

Lab Sample ID: LCS 400-630026/15-A
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.000880		mg/L		87	80 - 120		

Lab Sample ID: 400-239196-1 MS
Matrix: Water
Analysis Batch: 630397

Client Sample ID: MW-U1-20230612
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND	F1	0.00201	0.00275	F1	mg/L		137	80 - 120		

Lab Sample ID: 400-239196-1 MSD
Matrix: Water
Analysis Batch: 630397

Client Sample ID: MW-U1-20230612
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.00201	0.00273	F1	mg/L		136	80 - 120	1	20

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

Lab Sample ID: MB 400-629853/1
Matrix: Water
Analysis Batch: 629853

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			06/19/23 16:36	1

Lab Sample ID: LCS 400-629853/2
Matrix: Water
Analysis Batch: 629853

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	330		mg/L		113	78 - 122		

Lab Sample ID: 400-239003-B-1 DU
Matrix: Water
Analysis Batch: 629853

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	3500			3490		mg/L				0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-631181/5
Matrix: Water
Analysis Batch: 631181

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			06/28/23 10:45	1

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

Lab Sample ID: LCS 400-631181/6
Matrix: Water
Analysis Batch: 631181

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	49.1		mg/L		98	90 - 110

Lab Sample ID: MRL 400-631181/7
Matrix: Water
Analysis Batch: 631181

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	1.49	J	mg/L		75	50 - 150

Lab Sample ID: 400-239196-1 MS
Matrix: Water
Analysis Batch: 631181

Client Sample ID: MW-U1-20230612
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.9	J	10.0	10.7		mg/L		88	73 - 120

Lab Sample ID: 400-239196-1 MSD
Matrix: Water
Analysis Batch: 631181

Client Sample ID: MW-U1-20230612
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.9	J	10.0	11.3		mg/L		93	73 - 120	5	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-631326/10
Matrix: Water
Analysis Batch: 631326

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	0.070	mg/L			06/29/23 11:02	1

Lab Sample ID: LCS 400-631326/12
Matrix: Water
Analysis Batch: 631326

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	4.79		mg/L		96	90 - 110

Lab Sample ID: MRL 400-631326/11
Matrix: Water
Analysis Batch: 631326

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	0.101		mg/L		101	

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-239196-2 MS
Matrix: Water
Analysis Batch: 631326

Client Sample ID: MW-U2-20230612
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.12		0.100	0.216		mg/L		97	75 - 125		

Lab Sample ID: 400-239196-2 MSD
Matrix: Water
Analysis Batch: 631326

Client Sample ID: MW-U2-20230612
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.12		0.100	0.216		mg/L		97	75 - 125	0	4

Lab Sample ID: 400-239198-B-2 DU
Matrix: Water
Analysis Batch: 631326

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	ND			ND		mg/L				NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-631038/5
Matrix: Water
Analysis Batch: 631038

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			06/27/23 14:06	1

Lab Sample ID: LCS 400-631038/6
Matrix: Water
Analysis Batch: 631038

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	15.4		mg/L		102	90 - 110		

Lab Sample ID: MRL 400-631038/7
Matrix: Water
Analysis Batch: 631038

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	3.98	J	mg/L		80	50 - 150		

Lab Sample ID: 400-239196-1 MS
Matrix: Water
Analysis Batch: 631038

Client Sample ID: MW-U1-20230612
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	1.5	J	10.0	10.7		mg/L		93	77 - 128		

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

Lab Sample ID: 400-239196-1 MSD
Matrix: Water
Analysis Batch: 631038

Client Sample ID: MW-U1-20230612
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	1.5	J	10.0	10.7		mg/L		93	77 - 128	0	5

Eurofins Pensacola
3355 McLem[illegible]ve
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible] Record

eurofins [illegible]ronment Testing [illegible]rica

400-239196 COC

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	[illegible] No(s)	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 276-389-4485	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastetoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:		N	N	X	X	X	X	X	X	X	X		
MW-U1-20230612	06/12/23	1340	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.79
MW-U2-20230612	06/12/23	1505	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.79
MW-D4-20230612	06/12/23	1620	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.76
MW-D5-20230613	06/13/23	1225	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.05
				Water												
				Water												
				Water								DG				DG
DG				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Derya Genc	06/14/23 1430	GEO	FEDEX	06/14/23	FEDEX
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	6-14-23/929	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				15 06/15/23	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No..

Cooler Temperature(s) °C and Other Remarks: 5.4°C / IR10

Ver 06 08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239196-1
SDG Number: Crisp County Power

Login Number: 239196
List Number: 1
Creator: Whitley, Adrian

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.	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	5.9°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 <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 CCR

Job ID: 400-239196-1
SDG: Crisp County Power

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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

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

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 CCR
SDG NUMBER Crisp County Power

JOB NUMBER

400-239196-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

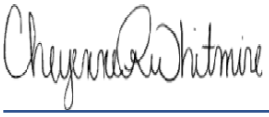
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-239196-2
SDG: Crisp County Power

Job ID: 400-239196-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-239196-2

Receipt
The samples were received on 6/15/2023 9:29 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 5.9º C.

RAD
Method 9315: Radium-226 160-616552. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230612 (400-239196-1), MW-U2-20230612 (400-239196-2), MW-D4-20230612 (400-239196-3), MW-D5-20230613 (400-239196-4), (LCS 160-616552/2 (LCSD 160-616552/3-A) and (MB 160-616552/1-A)

Method 9320: Radium-228 batch 616553. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230612 (400-239196-1), MW-U2-20230612 (400-239196-2), MW-D4-20230612 (400-239196-3), MW-D5-20230613 (400-239196-4), (LCS 160-616553/2 (LCSD 160-616553/3-A) and (MB 160-616553/1-A)

Method PrecSep_0: Radium-228 Prep Batch 160-616553. Insufficient sample volume was available to perform a sample duplica for the following samples: MW-U1-20230612 (400-239196-1), MW-U2-20230612 (400-239196-2), MW-D4-20230612 (400-2391 and MW-D5-20230613 (400-239196-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-616552. Insufficient sample volume was available to perform a sample duplic for the following samples: MW-U1-20230612 (400-239196-1), MW-U2-20230612 (400-239196-2), MW-D4-20230612 (400-2391 and MW-D5-20230613 (400-239196-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

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

Job ID: 400-239196-2
SDG: Crisp County Power

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 CCR

Job ID: 400-239196-2
SDG: Crisp County Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-239196-1	MW-U1-20230612	Water	06/12/23 13:40	06/15/23 09:29
400-239196-2	MW-U2-20230612	Water	06/12/23 15:05	06/15/23 09:29
400-239196-3	MW-D4-20230612	Water	06/12/23 16:20	06/15/23 09:29
400-239196-4	MW-D5-20230613	Water	06/13/23 12:25	06/15/23 09:29

Client Sample ID: MW-U1-20230612

Date Collected: 06/12/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0778	U	0.0761	0.0765	1.00	0.116	pCi/L	06/19/23 10:44	07/11/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.8*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:06*	*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	0.0261	U	0.380	0.380	1.00	0.706	pCi/L	06/19/23 10:50	07/03/23 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.8*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:05*	*1*
Y Carrier	*83.0*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:05*	*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	0.104	U	0.388	0.388	5.00	0.706	pCi/L		07/12/23 19:03	1

Client Sample ID: MW-U2-20230612

Date Collected: 06/12/23 15:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0970	U	0.0887	0.0891	1.00	0.133	pCi/L	06/19/23 10:44	07/11/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*66.7*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:06*	*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	-0.453	U	0.425	0.427	1.00	0.899	pCi/L	06/19/23 10:50	07/03/23 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*66.7*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:05*	*1*
Y Carrier	*81.1*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:05*	*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	-0.356	U	0.434	0.436	5.00	0.899	pCi/L		07/12/23 19:03	1

Client Sample ID: MW-D4-20230612

Date Collected: 06/12/23 16:20
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0812	U	0.0721	0.0725	1.00	0.106	pCi/L	06/19/23 10:44	07/11/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.9*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:06*	*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	0.581	U	0.401	0.405	1.00	0.596	pCi/L	06/19/23 10:50	07/03/23 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.9*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:05*	*1*
Y Carrier	*80.7*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:05*	*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	**0.662**		0.407	0.411	5.00	0.596	pCi/L		07/12/23 19:03	1

Client Sample ID: MW-D5-20230613

Date Collected: 06/13/23 12:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-4

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.133**		0.0927	0.0935	1.00	0.130	pCi/L	06/19/23 10:44	07/11/23 10:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:10*	*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	0.0858	U	0.338	0.338	1.00	0.610	pCi/L	06/19/23 10:50	07/03/23 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*1*
Y Carrier	*81.9*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*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	0.219	U	0.350	0.351	5.00	0.610	pCi/L		07/12/23 19:03	1

Definitions/Glossary

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

Job ID: 400-239196-2
SDG: Crisp County Power

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 CCR

Job ID: 400-239196-2
SDG: Crisp County Power

Client Sample ID: MW-U1-20230612
Date Collected: 06/12/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619761	SCB	EET SL	07/11/23 10:06
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:05
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Client Sample ID: MW-U2-20230612
Date Collected: 06/12/23 15:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619761	SCB	EET SL	07/11/23 10:06
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:05
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Client Sample ID: MW-D4-20230612
Date Collected: 06/12/23 16:20
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619761	SCB	EET SL	07/11/23 10:06
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:05
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Client Sample ID: MW-D5-20230613
Date Collected: 06/13/23 12:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239196-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619818	EMH	EET SL	07/11/23 10:10
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:06
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Laboratory References:

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

QC Association Summary

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

Job ID: 400-239196-2
SDG: Crisp County Power

Rad

Prep Batch: 616552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	PrecSep-21	
400-239196-2	MW-U2-20230612	Total/NA	Water	PrecSep-21	
400-239196-3	MW-D4-20230612	Total/NA	Water	PrecSep-21	
400-239196-4	MW-D5-20230613	Total/NA	Water	PrecSep-21	
MB 160-616552/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-616552/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-616552/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 616553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-1	MW-U1-20230612	Total/NA	Water	PrecSep_0	
400-239196-2	MW-U2-20230612	Total/NA	Water	PrecSep_0	
400-239196-3	MW-D4-20230612	Total/NA	Water	PrecSep_0	
400-239196-4	MW-D5-20230613	Total/NA	Water	PrecSep_0	
MB 160-616553/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-616553/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-616553/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-616552/1-A
Matrix: Water
Analysis Batch: 619761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616552

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04470	U	0.0615	0.0616	1.00	0.104	pCi/L	06/19/23 10:44	07/11/23 09:58	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/19/23 10:44*	*07/11/23 09:58*	*1*

Lab Sample ID: LCS 160-616552/2-A
Matrix: Water
Analysis Batch: 619761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616552

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.67		1.13	1.00	0.153	pCi/L	94	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*

Lab Sample ID: LCSD 160-616552/3-A
Matrix: Water
Analysis Batch: 619761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616552

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.14		1.07	1.00	0.122	pCi/L	89	75 - 125	0.24	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-616553/1-A
Matrix: Water
Analysis Batch: 618519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616553

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01371	U	0.314	0.314	1.00	0.589	pCi/L	06/19/23 10:50	07/03/23 14:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/19/23 10:50*	*07/03/23 14:57*	*1*
Y Carrier	*84.1*		*30 - 110*	*06/19/23 10:50*	*07/03/23 14:57*	*1*

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

Lab Sample ID: LCS 160-616553/2-A
Matrix: Water
Analysis Batch: 618519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616553

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.07	8.630		1.24	1.00	0.532	pCi/L	107	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

Lab Sample ID: LCSD 160-616553/3-A
Matrix: Water
Analysis Batch: 618519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616553

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.07	8.103		1.18	1.00	0.534	pCi/L	100	75 - 125	0.22	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*
Y Carrier	*83.0*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible]ve
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible] Record

eurofins [illegible]ronment Testing [illegible]rica

400-239196 COC

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	) No(s)	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 276-389-4445	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:		N	N	N	N	D	D	N	N	N	N		
MW-U1-20230612	06/12/23	1340	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.79
MW-U2-20230612	06/12/23	1505	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.79
MW-D4-20230612	06/12/23	1620	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.76
MW-D5-20230613	06/13/23	1225	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.05
				Water												
				Water												
				Water								DG				DG
DG				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Derya Genc	06/14/23 1430	GEO	FEDEX	06/14/23	FEDEX
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	6-14-23/929	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				15 06/15/23	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.4°C / IR10

Ver 06/08/2021

7/12/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239196-2
SDG Number: Crisp County Power

Login Number: 239196
List Number: 1
Creator: Whitley, Adrian

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.	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	5.9°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239196-2
SDG Number: Crisp County Power

Login Number: 239196
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 06/16/23 01:23 PM

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

Accreditation/Certification Summary

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

Job ID: 400-239196-2
SDG: Crisp County Power

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23 *
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-23 *
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23 *
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23 *
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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 CCR
SDG NUMBER Crispy County Power

JOB NUMBER

400-239197-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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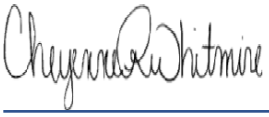
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
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(850)471-6222

Table of Contents

Job ID: 400-239197-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-239197-1

Receipt
The samples were received on 6/15/2023 9:29 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 5.9º C.

Metals
Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-630026 and 400-631209 and analytical batch 400-630397 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020B: The ICV for batch 400-631473 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020B: The ICV for batch 400-631628 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020B: The following samples were diluted due to the abundance of non-target analytes: MW-D7-20230613 (400-239197-2), MW-D8-20230613 (400-239197-3) and MW-D9-20230613 (400-239197-4). Elevated reporting limits (RLs) are provided.

General Chemistry
Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-630803 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-630860 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D6-20230612 — Lab Sample ID: 400-239197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0085		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020B	Total Recoverable
Selenium	0.0022		0.0013	0.00082	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.11		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.72				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D7-20230613 — Lab Sample ID: 400-239197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.031	J	0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	64		0.25	0.13	mg/L	5		6020B	Total Recoverable
Cobalt	0.00081	J	0.0025	0.00056	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.074	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	8.4		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.68				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D8-20230613 — Lab Sample ID: 400-239197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.049		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.042	J	0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	80		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	6.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	18		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9-20230613 — Lab Sample ID: 400-239197-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	55		0.25	0.13	mg/L	5		6020B	Total Recoverable
Selenium	0.0039		0.0025	0.0016	mg/L	10		6020B	Total Recoverable
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.084	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D9-20230613 (Continued)

Lab Sample ID: 400-239197-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.39				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-239197-1
SDG: Crispy County Power

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-239197-1
SDG: Crispy County Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-239197-1	MW-D6-20230612	Water	06/12/23 17:25	06/15/23 09:29
400-239197-2	MW-D7-20230613	Water	06/13/23 10:35	06/15/23 09:29
400-239197-3	MW-D8-20230613	Water	06/13/23 09:05	06/15/23 09:29
400-239197-4	MW-D9-20230613	Water	06/13/23 10:30	06/15/23 09:29

Client Sample Results

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D6-20230612

Date Collected: 06/12/23 17:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:39	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:39	5
Barium	**0.0085**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:39	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:39	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:39	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:39	5
Calcium	**35**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:39	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:39	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:39	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:39	5
Lithium	ND		0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 23:20	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:39	5
Selenium	**0.0022**		0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 23:20	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:39	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**5.3**		2.0	1.4	mg/L			06/27/23 10:23	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.070	mg/L			06/26/23 16:10	1
Sulfate (SM 4500 SO4 E)	**3.1**	**J**	5.0	1.4	mg/L			06/26/23 12:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.72**				SU			06/12/23 16:25	1

Client Sample Results

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D7-20230613

Date Collected: 06/13/23 10:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:42	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:42	5
Barium	**0.094**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:42	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:42	5
Boron	**0.031**	**J**	0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:42	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:42	5
Calcium	**64**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:42	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:42	5
Cobalt	**0.00081**	**J**	0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:42	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:42	5
Lithium	ND	^3+	0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 02:42	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:42	5
Selenium	ND		0.0025	0.0016	mg/L		06/28/23 15:22	06/30/23 23:24	10
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:42	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:05	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			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**4.9**		2.0	1.4	mg/L			06/27/23 10:24	1
Fluoride (SM 4500 F C)	**0.074**	**J**	0.10	0.070	mg/L			06/26/23 16:10	1
Sulfate (SM 4500 SO4 E)	**8.4**		5.0	1.4	mg/L			06/26/23 14:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.68**				SU			06/13/23 09:35	1

Client Sample Results

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D8-20230613

Date Collected: 06/13/23 09:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:45	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:45	5
Barium	**0.049**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:45	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:45	5
Boron	**0.042**	**J**	0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:45	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:45	5
Calcium	**80**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:45	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:45	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:45	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:45	5
Lithium	ND		0.0050	0.0098	mg/L		06/28/23 15:22	07/06/23 13:23	10
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:45	5
Selenium	ND		0.0025	0.0016	mg/L		06/28/23 15:22	06/30/23 23:27	10
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:45	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**6.8**		2.0	1.4	mg/L			06/27/23 10:24	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			06/26/23 16:10	1
Sulfate (SM 4500 SO4 E)	**18**		5.0	1.4	mg/L			06/26/23 14:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.41**				SU			06/13/23 08:05	1

Client Sample Results

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D9-20230613

Date Collected: 06/13/23 10:30
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 02:48	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 02:48	5
Barium	**0.041**		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 02:48	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 02:48	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 02:48	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 02:48	5
Calcium	**55**		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 02:48	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 02:48	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 02:48	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 02:48	5
Lithium	ND	^3+	0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 02:48	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 02:48	5
Selenium	**0.0039**		0.0025	0.0016	mg/L		06/28/23 15:22	06/30/23 23:30	10
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 02:48	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**2.4**		2.0	1.4	mg/L			06/27/23 10:25	1
Fluoride (SM 4500 F C)	**0.084**	**J**	0.10	0.070	mg/L			06/26/23 16:10	1
Sulfate (SM 4500 SO4 E)	**2.5**	**J**	5.0	1.4	mg/L			06/26/23 14:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.39**				SU			06/13/23 09:30	1

Definitions/Glossary

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

Job ID: 400-239197-1
SDG: Crispy County Power

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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 CCR

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D6-20230612

Date Collected: 06/12/23 17:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:39
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631628	NTH	EET PEN	06/30/23 23:20
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/21/23 16:30
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:23
Total/NA	Analysis	SM 4500 F C		1	630835	JP	EET PEN	06/26/23 16:10
Total/NA	Analysis	SM 4500 SO4 E		1	630803	CJK	EET PEN	06/26/23 12:32
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/12/23 16:25

Client Sample ID: MW-D7-20230613

Date Collected: 06/13/23 10:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:42
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		10	631628	NTH	EET PEN	06/30/23 23:24
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:05
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:24
Total/NA	Analysis	SM 4500 F C		1	630835	JP	EET PEN	06/26/23 16:10
Total/NA	Analysis	SM 4500 SO4 E		1	630860	CJK	EET PEN	06/26/23 14:41
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 09:35

Client Sample ID: MW-D8-20230613

Date Collected: 06/13/23 09:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:45
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		10	631628	NTH	EET PEN	06/30/23 23:27
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		10	632169	NTH	EET PEN	07/06/23 13:23
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:06
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:24

Lab Chronicle

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

Job ID: 400-239197-1
SDG: Crispy County Power

Client Sample ID: MW-D8-20230613

Date Collected: 06/13/23 09:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	630835	JP	EET PEN	06/26/23 16:10
Total/NA	Analysis	SM 4500 SO4 E		1	630860	CJK	EET PEN	06/26/23 14:38
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 08:05

Client Sample ID: MW-D9-20230613

Date Collected: 06/13/23 10:30
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		5	631473	NTH	EET PEN	06/30/23 02:48
Total Recoverable	Prep	3005A			631209	KWN	EET PEN	06/28/23 15:22 - 06/28/23 17:48 [1]
Total Recoverable	Analysis	6020B		10	631628	NTH	EET PEN	06/30/23 23:30
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:07
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:25
Total/NA	Analysis	SM 4500 F C		1	630835	JP	EET PEN	06/26/23 16:10
Total/NA	Analysis	SM 4500 SO4 E		1	630860	CJK	EET PEN	06/26/23 14:39
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 09:30

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 630026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	7470A	
400-239197-2	MW-D7-20230613	Total/NA	Water	7470A	
400-239197-3	MW-D8-20230613	Total/NA	Water	7470A	
400-239197-4	MW-D9-20230613	Total/NA	Water	7470A	
MB 400-630026/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-630026/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-239196-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-239196-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 630397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	7470A	630026
400-239197-2	MW-D7-20230613	Total/NA	Water	7470A	630026
400-239197-3	MW-D8-20230613	Total/NA	Water	7470A	630026
400-239197-4	MW-D9-20230613	Total/NA	Water	7470A	630026
MB 400-630026/14-A	Method Blank	Total/NA	Water	7470A	630026
LCS 400-630026/15-A	Lab Control Sample	Total/NA	Water	7470A	630026
400-239196-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	630026
400-239196-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	630026

Prep Batch: 631209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total Recoverable	Water	3005A	
400-239197-2	MW-D7-20230613	Total Recoverable	Water	3005A	
400-239197-3	MW-D8-20230613	Total Recoverable	Water	3005A	
400-239197-4	MW-D9-20230613	Total Recoverable	Water	3005A	
MB 400-631209/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-631209/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-239576-E-1-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-239576-E-1-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 631473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total Recoverable	Water	6020B	631209
400-239197-2	MW-D7-20230613	Total Recoverable	Water	6020B	631209
400-239197-3	MW-D8-20230613	Total Recoverable	Water	6020B	631209
400-239197-4	MW-D9-20230613	Total Recoverable	Water	6020B	631209
MB 400-631209/1-A ^5	Method Blank	Total Recoverable	Water	6020B	631209
LCS 400-631209/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	631209
400-239576-E-1-C MS ^5	Matrix Spike	Total Recoverable	Water	6020B	631209
400-239576-E-1-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020B	631209

Analysis Batch: 631628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total Recoverable	Water	6020B	631209
400-239197-2	MW-D7-20230613	Total Recoverable	Water	6020B	631209
400-239197-3	MW-D8-20230613	Total Recoverable	Water	6020B	631209
400-239197-4	MW-D9-20230613	Total Recoverable	Water	6020B	631209
MB 400-631209/1-A ^5	Method Blank	Total Recoverable	Water	6020B	631209
LCS 400-631209/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	631209

QC Association Summary

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

Job ID: 400-239197-1
SDG: Crispy County Power

Metals

Analysis Batch: 632169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-3	MW-D8-20230613	Total Recoverable	Water	6020B	631209

General Chemistry

Analysis Batch: 629853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	SM 2540C	
400-239197-2	MW-D7-20230613	Total/NA	Water	SM 2540C	
400-239197-3	MW-D8-20230613	Total/NA	Water	SM 2540C	
400-239197-4	MW-D9-20230613	Total/NA	Water	SM 2540C	
MB 400-629853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-629853/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-239197-2 DU	MW-D7-20230613	Total/NA	Water	SM 2540C	

Analysis Batch: 630803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	SM 4500 SO4 E	
MB 400-630803/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-630803/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-630803/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-239192-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-239192-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 630835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	SM 4500 F C	
400-239197-2	MW-D7-20230613	Total/NA	Water	SM 4500 F C	
400-239197-3	MW-D8-20230613	Total/NA	Water	SM 4500 F C	
400-239197-4	MW-D9-20230613	Total/NA	Water	SM 4500 F C	
MB 400-630835/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-630835/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-630835/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
680-236358-H-7 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
680-236358-H-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-239535-L-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 630860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-2	MW-D7-20230613	Total/NA	Water	SM 4500 SO4 E	
400-239197-3	MW-D8-20230613	Total/NA	Water	SM 4500 SO4 E	
400-239197-4	MW-D9-20230613	Total/NA	Water	SM 4500 SO4 E	
MB 400-630860/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-630860/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-630860/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-239207-E-2 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-239207-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 630973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	SM 4500 Cl- E	
400-239197-2	MW-D7-20230613	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 630973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-3	MW-D8-20230613	Total/NA	Water	SM 4500 Cl- E	
400-239197-4	MW-D9-20230613	Total/NA	Water	SM 4500 Cl- E	
MB 400-630973/36	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-630973/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-630973/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-630973/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-239198-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-239198-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 629480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	Field Sampling	
400-239197-2	MW-D7-20230613	Total/NA	Water	Field Sampling	
400-239197-3	MW-D8-20230613	Total/NA	Water	Field Sampling	
400-239197-4	MW-D9-20230613	Total/NA	Water	Field Sampling	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-631209/1-A ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/28/23 15:22	06/30/23 00:25	5
Arsenic	ND		0.0013	0.0012	mg/L		06/28/23 15:22	06/30/23 00:25	5
Barium	ND		0.0025	0.0018	mg/L		06/28/23 15:22	06/30/23 00:25	5
Beryllium	ND		0.0020	0.00092	mg/L		06/28/23 15:22	06/30/23 00:25	5
Boron	ND		0.050	0.029	mg/L		06/28/23 15:22	06/30/23 00:25	5
Cadmium	ND		0.0010	0.00065	mg/L		06/28/23 15:22	06/30/23 00:25	5
Calcium	ND		0.25	0.13	mg/L		06/28/23 15:22	06/30/23 00:25	5
Chromium	ND		0.0025	0.0021	mg/L		06/28/23 15:22	06/30/23 00:25	5
Cobalt	ND		0.0025	0.00056	mg/L		06/28/23 15:22	06/30/23 00:25	5
Lead	ND		0.0013	0.00081	mg/L		06/28/23 15:22	06/30/23 00:25	5
Molybdenum	ND		0.010	0.0013	mg/L		06/28/23 15:22	06/30/23 00:25	5
Thallium	ND		0.00050	0.00046	mg/L		06/28/23 15:22	06/30/23 00:25	5

Lab Sample ID: MB 400-631209/1-A ^5
Matrix: Water
Analysis Batch: 631628

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.0025	0.0049	mg/L		06/28/23 15:22	06/30/23 21:38	5
Selenium	ND		0.0013	0.00082	mg/L		06/28/23 15:22	06/30/23 21:38	5

Lab Sample ID: LCS 400-631209/2-A ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0541		mg/L		108	80 - 120
Arsenic	0.0500	0.0515		mg/L		103	80 - 120
Barium	0.0500	0.0532		mg/L		106	80 - 120
Beryllium	0.0500	0.0527		mg/L		105	80 - 120
Boron	0.100	0.104		mg/L		104	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	5.00	5.20		mg/L		104	80 - 120
Chromium	0.0500	0.0527		mg/L		105	80 - 120
Cobalt	0.0500	0.0518		mg/L		104	80 - 120
Lead	0.0500	0.0529		mg/L		106	80 - 120
Molybdenum	0.0500	0.0497		mg/L		99	80 - 120
Thallium	0.0100	0.0108		mg/L		108	80 - 120

Lab Sample ID: LCS 400-631209/2-A ^5
Matrix: Water
Analysis Batch: 631628

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0500	0.0499		mg/L		100	80 - 120
Selenium	0.0500	0.0580		mg/L		116	80 - 120

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

Lab Sample ID: 400-239576-E-1-C MS ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0035		0.0500	0.0443		mg/L		82	75 - 125
Arsenic	0.0014		0.0500	0.0494		mg/L		96	75 - 125
Barium	0.10		0.0500	0.158		mg/L		109	75 - 125
Beryllium	ND		0.0500	0.0516		mg/L		103	75 - 125
Boron	ND	F1	0.100	0.126	F1	mg/L		126	75 - 125
Cadmium	ND		0.0500	0.0533		mg/L		107	75 - 125
Calcium	7.7		5.00	12.6		mg/L		98	75 - 125
Chromium	0.0086	^2	0.0500	0.0589		mg/L		101	75 - 125
Cobalt	0.0066		0.0500	0.0576		mg/L		102	75 - 125
Lead	0.012	^5+	0.0500	0.0640		mg/L		105	75 - 125
Lithium	0.015	^3+ B ^2	0.0500	0.0678	^3+	mg/L		105	75 - 125
Molybdenum	ND		0.0500	0.0481		mg/L		96	75 - 125
Selenium	0.0028	B ^2 *+	0.0500	0.0460		mg/L		86	75 - 125
Thallium	ND		0.0100	0.0105		mg/L		105	75 - 125

Lab Sample ID: 400-239576-E-1-D MSD ^5
Matrix: Water
Analysis Batch: 631473

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 631209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0035		0.0500	0.0430		mg/L		79	75 - 125	3	20
Arsenic	0.0014		0.0500	0.0476		mg/L		92	75 - 125	4	20
Barium	0.10		0.0500	0.156		mg/L		104	75 - 125	2	20
Beryllium	ND		0.0500	0.0519		mg/L		104	75 - 125	0	20
Boron	ND	F1	0.100	0.125		mg/L		125	75 - 125	1	20
Cadmium	ND		0.0500	0.0523		mg/L		105	75 - 125	2	20
Calcium	7.7		5.00	12.7		mg/L		100	75 - 125	1	20
Chromium	0.0086	^2	0.0500	0.0587		mg/L		100	75 - 125	0	20
Cobalt	0.0066		0.0500	0.0577		mg/L		102	75 - 125	0	20
Lead	0.012	^5+	0.0500	0.0642		mg/L		105	75 - 125	0	20
Lithium	0.015	^3+ B ^2	0.0500	0.0682	^3+	mg/L		106	75 - 125	1	20
Molybdenum	ND		0.0500	0.0445		mg/L		89	75 - 125	8	20
Selenium	0.0028	B ^2 *+	0.0500	0.0433		mg/L		81	75 - 125	6	20
Thallium	ND		0.0100	0.0107		mg/L		107	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-630026/14-A
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 15:45	1

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

Lab Sample ID: LCS 400-630026/15-A
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.000880		mg/L		87	80 - 120		

Lab Sample ID: 400-239196-C-1-B MS
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND	F1	0.00201	0.00275	F1	mg/L		137	80 - 120		

Lab Sample ID: 400-239196-C-1-C MSD
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.00201	0.00273	F1	mg/L		136	80 - 120	1	20

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

Lab Sample ID: MB 400-629853/1
Matrix: Water
Analysis Batch: 629853

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			06/19/23 16:36	1

Lab Sample ID: LCS 400-629853/2
Matrix: Water
Analysis Batch: 629853

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	330		mg/L		113	78 - 122		

Lab Sample ID: 400-239197-2 DU
Matrix: Water
Analysis Batch: 629853

Client Sample ID: MW-D7-20230613
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	220			224		mg/L				0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-630973/36
Matrix: Water
Analysis Batch: 630973

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			06/27/23 10:35	1

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

Lab Sample ID: MB 400-630973/5
Matrix: Water
Analysis Batch: 630973

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			06/27/23 10:19	1

Lab Sample ID: LCS 400-630973/6
Matrix: Water
Analysis Batch: 630973

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	53.5		mg/L		107	90 - 110

Lab Sample ID: MRL 400-630973/7
Matrix: Water
Analysis Batch: 630973

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	2.54		mg/L		127	50 - 150

Lab Sample ID: 400-239198-A-1 MS
Matrix: Water
Analysis Batch: 630973

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	2.3		10.0	11.7		mg/L		94	73 - 120

Lab Sample ID: 400-239198-A-1 MSD
Matrix: Water
Analysis Batch: 630973

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	2.3		10.0	11.6		mg/L		93	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-630835/10
Matrix: Water
Analysis Batch: 630835

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	0.070	mg/L			06/26/23 16:10	1

Lab Sample ID: LCS 400-630835/12
Matrix: Water
Analysis Batch: 630835

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	4.63		mg/L		93	90 - 110

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MRL 400-630835/11
Matrix: Water
Analysis Batch: 630835

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	0.0983	J	mg/L		98			

Lab Sample ID: 680-236358-H-7 MS
Matrix: Water
Analysis Batch: 630835

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	ND		0.100	0.120		mg/L		120	75 - 125		

Lab Sample ID: 680-236358-H-7 MSD
Matrix: Water
Analysis Batch: 630835

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	ND		0.100	0.120		mg/L		120	75 - 125	0	4

Lab Sample ID: 400-239535-L-1 DU
Matrix: Water
Analysis Batch: 630835

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	ND			ND		mg/L				NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-630803/12
Matrix: Water
Analysis Batch: 630803

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			06/26/23 12:06	1

Lab Sample ID: LCS 400-630803/13
Matrix: Water
Analysis Batch: 630803

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	14.2		mg/L		95	90 - 110		

Lab Sample ID: MRL 400-630803/14
Matrix: Water
Analysis Batch: 630803

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	4.22	J	mg/L		84	50 - 150		

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

Lab Sample ID: 400-239192-A-1 MS
Matrix: Water
Analysis Batch: 630803

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	8.3	F1 F2	10.0	17.2		mg/L		89	77 - 128

Lab Sample ID: 400-239192-A-1 MSD
Matrix: Water
Analysis Batch: 630803

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	8.3	F1 F2	10.0	15.5	F1 F2	mg/L		72	77 - 128	10	5

Lab Sample ID: MB 400-630860/5
Matrix: Water
Analysis Batch: 630860

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			06/26/23 14:19	1

Lab Sample ID: LCS 400-630860/6
Matrix: Water
Analysis Batch: 630860

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 400-630860/7
Matrix: Water
Analysis Batch: 630860

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	5.10		mg/L		102	50 - 150

Lab Sample ID: 400-239207-E-2 MS
Matrix: Water
Analysis Batch: 630860

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	11	F1	10.0	23.5	F1	mg/L		130	77 - 128

Lab Sample ID: 400-239207-E-2 MSD
Matrix: Water
Analysis Batch: 630860

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	11	F1	10.0	23.2		mg/L		127	77 - 128	1	5

Eurofins Pensacola
3355 McLem[illegible]ave
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible]Record

eurofins [illegible]vironment Testing [illegible]rica

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s): 400-239197 COC	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 276-389-4485	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:													
MW-D6-20230612	06/12/23	1725	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.72
MW-D7-20230613	06/13/23	1035	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.68
MW-D8_20230613	06/13/23	905	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.41
MW-D9_20230613	06/13/23	1030	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.39
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG DG

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Derya Genc GEO	06/14/23 1430	GEO	FEDEX	06/14/23	FEDEX
Relinquished by: [signature] Wilson	Date/Time: 6-14-23/1429	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: AW.15	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 5.9°C IR10

Ver 06 08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239197-1
SDG Number: Crispy County Power

Login Number: 239197
List Number: 1
Creator: Whitley, Adrian

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.	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	5.9°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 <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 CCR

Job ID: 400-239197-1
SDG: Crispy County Power

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	09-01-23
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

eurofins | Environment Testing

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 CCR
SDG NUMBER Crispy County Power

JOB NUMBER

400-239197-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

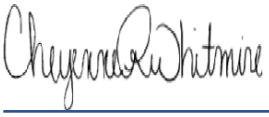
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-239197-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-239197-2

Receipt
The samples were received on 6/15/2023 9:29 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 5.9º C.

RAD
Method 9315: Radium-226 160-616552. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D6-20230612 (400-239197-1), MW-D7-20230613 (400-239197-2), MW-D8-20230613 (400-239197-3), MW-D9-20230613 (400-239197-4), (LCS 160-616552/2 (LCSD 160-616552/3-A) and (MB 160-616552/1-A)

Method 9320: Radium-228 batch 616553. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D6-20230612 (400-239197-1), MW-D7-20230613 (400-239197-2), MW-D8-20230613 (400-239197-3), MW-D9-20230613 (400-239197-4), (LCS 160-616553/2 (LCSD 160-616553/3-A) and (MB 160-616553/1-A)

Method PrecSep_0: Radium-228 Prep Batch 160-616553. Insufficient sample volume was available to perform a sample duplica for the following samples: MW-D6-20230612 (400-239197-1), MW-D7-20230613 (400-239197-2), MW-D8-20230613 (400-2391 and MW-D9-20230613 (400-239197-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-616552. Insufficient sample volume was available to perform a sample duplic for the following samples: MW-D6-20230612 (400-239197-1), MW-D7-20230613 (400-239197-2), MW-D8-20230613 (400-2391 and MW-D9-20230613 (400-239197-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Method Summary

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

Job ID: 400-239197-2
SDG: Crispy County Power

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 CCR

Job ID: 400-239197-2
SDG: Crispy County Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-239197-1	MW-D6-20230612	Water	06/12/23 17:25	06/15/23 09:29
400-239197-2	MW-D7-20230613	Water	06/13/23 10:35	06/15/23 09:29
400-239197-3	MW-D8-20230613	Water	06/13/23 09:05	06/15/23 09:29
400-239197-4	MW-D9-20230613	Water	06/13/23 10:30	06/15/23 09:29

Client Sample ID: MW-D6-20230612

Date Collected: 06/12/23 17:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0198	U	0.0899	0.0899	1.00	0.171	pCi/L	06/19/23 10:44	07/11/23 10:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*64.6*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:10*	*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	0.214	U	0.422	0.423	1.00	0.737	pCi/L	06/19/23 10:50	07/03/23 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*64.6*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*1*
Y Carrier	*81.1*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*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	0.233	U	0.431	0.432	5.00	0.737	pCi/L		07/12/23 19:03	1

Client Sample ID: MW-D7-20230613

Date Collected: 06/13/23 10:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0625	U	0.0899	0.0901	1.00	0.153	pCi/L	06/19/23 10:44	07/11/23 10:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.1*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:10*	*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	**0.960**		0.433	0.442	1.00	0.564	pCi/L	06/19/23 10:50	07/03/23 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.1*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*1*
Y Carrier	*83.4*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*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	**1.02**		0.442	0.451	5.00	0.564	pCi/L		07/12/23 19:03	1

Client Sample ID: MW-D8-20230613

Date Collected: 06/13/23 09:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0865	U	0.0929	0.0932	1.00	0.149	pCi/L	06/19/23 10:44	07/11/23 10:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.3*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:11*	*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	-0.126	U	0.249	0.250	1.00	0.530	pCi/L	06/19/23 10:50	07/03/23 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.3*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*1*
Y Carrier	*87.1*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*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	-0.0397	U	0.266	0.267	5.00	0.530	pCi/L		07/12/23 19:03	1

Client Sample ID: MW-D9-20230613

Date Collected: 06/13/23 10:30
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-4

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.113	U	0.101	0.102	1.00	0.157	pCi/L	06/19/23 10:44	07/11/23 10:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*06/19/23 10:44*	*07/11/23 10:11*	*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	**0.773**		0.428	0.434	1.00	0.603	pCi/L	06/19/23 10:50	07/03/23 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*1*
Y Carrier	*81.5*		*30 - 110*	*06/19/23 10:50*	*07/03/23 15:06*	*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	**0.887**		0.440	0.446	5.00	0.603	pCi/L		07/12/23 19:03	1

Definitions/Glossary

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

Job ID: 400-239197-2
SDG: Crispy County Power

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 CCR

Job ID: 400-239197-2
SDG: Crispy County Power

Client Sample ID: MW-D6-20230612
Date Collected: 06/12/23 17:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619818	EMH	EET SL	07/11/23 10:10
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:06
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Client Sample ID: MW-D7-20230613
Date Collected: 06/13/23 10:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619818	EMH	EET SL	07/11/23 10:10
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:06
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Client Sample ID: MW-D8-20230613
Date Collected: 06/13/23 09:05
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619818	EMH	EET SL	07/11/23 10:11
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:06
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Client Sample ID: MW-D9-20230613
Date Collected: 06/13/23 10:30
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239197-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616552	KAC	EET SL	06/19/23 10:44
Total/NA	Analysis	9315		1	619818	EMH	EET SL	07/11/23 10:11
Total/NA	Prep	PrecSep_0			616553	KAC	EET SL	06/19/23 10:50
Total/NA	Analysis	9320		1	618518	FLC	EET SL	07/03/23 15:06
Total/NA	Analysis	Ra226_Ra228		1	619760	EMH	EET SL	07/12/23 19:03

Laboratory References:

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

QC Association Summary

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

Job ID: 400-239197-2
SDG: Crispy County Power

Rad

Prep Batch: 616552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	PrecSep-21	
400-239197-2	MW-D7-20230613	Total/NA	Water	PrecSep-21	
400-239197-3	MW-D8-20230613	Total/NA	Water	PrecSep-21	
400-239197-4	MW-D9-20230613	Total/NA	Water	PrecSep-21	
MB 160-616552/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-616552/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-616552/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 616553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239197-1	MW-D6-20230612	Total/NA	Water	PrecSep_0	
400-239197-2	MW-D7-20230613	Total/NA	Water	PrecSep_0	
400-239197-3	MW-D8-20230613	Total/NA	Water	PrecSep_0	
400-239197-4	MW-D9-20230613	Total/NA	Water	PrecSep_0	
MB 160-616553/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-616553/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-616553/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-616552/1-A
Matrix: Water
Analysis Batch: 619761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616552

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04470	U	0.0615	0.0616	1.00	0.104	pCi/L	06/19/23 10:44	07/11/23 09:58	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/19/23 10:44*	*07/11/23 09:58*	*1*

Lab Sample ID: LCS 160-616552/2-A
Matrix: Water
Analysis Batch: 619761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616552

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.67		1.13	1.00	0.153	pCi/L	94	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*

Lab Sample ID: LCSD 160-616552/3-A
Matrix: Water
Analysis Batch: 619761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616552

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.14		1.07	1.00	0.122	pCi/L	89	75 - 125	0.24	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-616553/1-A
Matrix: Water
Analysis Batch: 618519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616553

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01371	U	0.314	0.314	1.00	0.589	pCi/L	06/19/23 10:50	07/03/23 14:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/19/23 10:50*	*07/03/23 14:57*	*1*
Y Carrier	*84.1*		*30 - 110*	*06/19/23 10:50*	*07/03/23 14:57*	*1*

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

Lab Sample ID: LCS 160-616553/2-A
Matrix: Water
Analysis Batch: 618519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616553

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.07	8.630		1.24	1.00	0.532	pCi/L	107	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

Lab Sample ID: LCSD 160-616553/3-A
Matrix: Water
Analysis Batch: 618519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616553

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			8.07	8.103		1.18	1.00	0.534	pCi/L	100	75 - 125	0.22	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*
Y Carrier	*83.0*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible]ave
Pensacola [illegible]14
Phone 850 474-1001 Fax 850-478-2671

Chain of Custo[illegible]Record

eurofins [illegible]vironment Testing [illegible]rica

400-239197 COC

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 276-389-4485	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:													
MW-D6-20230612	06/12/23	1725	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.72
MW-D7-20230613	06/13/23	1035	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.68
MW-D8_20230613	06/13/23	905	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.41
MW-D9_20230613	06/13/23	1030	G	Water	N	N	X	X	X	X	X	X	X	X		pH = 7.39
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG DG

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Derya Genc GEO	06/14/23 1430	GEO	FEDEX	06/14/23	FEDEX
Relinquished by: [signature] Wilson	Date/Time: 6-14-23/1429	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time: AW.15	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 5.9°C IR10

Ver 06 08/2021

7/12/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239197-2
SDG Number: Crispy County Power

Login Number: 239197
List Number: 1
Creator: Whitley, Adrian

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.	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	5.9°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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239197-2
SDG Number: Crispy County Power

Login Number: 239197
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 06/16/23 01:23 PM

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

Accreditation/Certification Summary

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

Job ID: 400-239197-2
SDG: Crispy County Power

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23 *
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-23 *
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23 *
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23 *
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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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 CCR
SDG NUMBER Crisp County Power

JOB NUMBER

400-239198-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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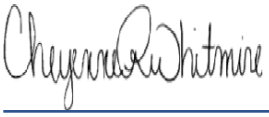
Authorization



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Authorized for release by
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(850)471-6222

Table of Contents

Job ID: 400-239198-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-239198-1

Receipt
The samples were received on 6/15/2023 9:29 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 2.8º C.

Metals
Method 6020B: The CRI associated with batch 400-632169 recovered above the upper control limit for Selenium. The samples associated with this CRI were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: DUP-7 (400-239198-1), EQUIPMENT BLANK 1 (400-239198-2), EQUIPMENT BLANK 2 (400-239198-3), FIELD BLANK (400-239198-4) and (MB 400-631550/1-A ^5).

Method 6020B: The CRI associated with batch 400-632169 recovered above the upper control limit for Selenium. The LCS associated with this CRI was within limits for the affected analytes; therefore, the data have been reported. The associated LCS is impacted: (LCS 400-631550/2-A ^5).

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-630026 and analytical batch 400-630397 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

General Chemistry
Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-630803 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

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

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: DUP-7 — Lab Sample ID: 400-239198-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.024		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	48		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.13		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.2		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

Client Sample ID: EQUIPMENT BLANK 1 — Lab Sample ID: 400-239198-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0029		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

Client Sample ID: EQUIPMENT BLANK 2 — Lab Sample ID: 400-239198-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	0.13	J	0.25	0.13	mg/L	5		6020B	Total Recoverable
Sulfate	2.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

Client Sample ID: FIELD BLANK — Lab Sample ID: 400-239198-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-239198-1
SDG: Crisp County Power

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-239198-1
SDG: Crisp County Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-239198-1	DUP-7	Water	06/13/23 12:00	06/15/23 09:29
400-239198-2	EQUIPMENT BLANK 1	Water	06/13/23 13:35	06/15/23 09:29
400-239198-3	EQUIPMENT BLANK 2	Water	06/13/23 13:40	06/15/23 09:29
400-239198-4	FIELD BLANK	Water	06/13/23 13:25	06/15/23 09:29

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

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: DUP-7
Date Collected: 06/13/23 12:00
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/30/23 15:58	07/06/23 13:53	5
Arsenic	ND		0.0013	0.0012	mg/L		06/30/23 15:58	07/06/23 13:53	5
Barium	**0.024**		0.0025	0.0018	mg/L		06/30/23 15:58	07/06/23 13:53	5
Beryllium	ND		0.0020	0.00092	mg/L		06/30/23 15:58	07/06/23 13:53	5
Boron	ND		0.050	0.029	mg/L		06/30/23 15:58	07/06/23 13:53	5
Cadmium	ND		0.0010	0.00065	mg/L		06/30/23 15:58	07/06/23 13:53	5
Calcium	**48**		0.25	0.13	mg/L		06/30/23 15:58	07/06/23 13:53	5
Chromium	ND		0.0025	0.0021	mg/L		06/30/23 15:58	07/06/23 13:53	5
Cobalt	ND		0.0025	0.00056	mg/L		06/30/23 15:58	07/06/23 13:53	5
Lead	ND		0.0013	0.00081	mg/L		06/30/23 15:58	07/06/23 13:53	5
Lithium	ND		0.0025	0.0049	mg/L		06/30/23 15:58	07/06/23 13:53	5
Molybdenum	ND		0.010	0.0013	mg/L		06/30/23 15:58	07/06/23 13:53	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		06/30/23 15:58	07/06/23 13:53	5
Thallium	ND		0.00050	0.00046	mg/L		06/30/23 15:58	07/06/23 13:53	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		5.0	5.0	mg/L			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	**2.3**		2.0	1.4	mg/L			06/27/23 10:20	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.070	mg/L			06/26/23 16:10	1
Sulfate (SM 4500 SO4 E)	**6.2**		5.0	1.4	mg/L			06/26/23 12:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			06/13/23 11:00	1

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

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: EQUIPMENT BLANK 1

Date Collected: 06/13/23 13:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/30/23 15:58	07/06/23 13:56	5
Arsenic	ND		0.0013	0.0012	mg/L		06/30/23 15:58	07/06/23 13:56	5
Barium	**0.0029**		0.0025	0.0018	mg/L		06/30/23 15:58	07/06/23 13:56	5
Beryllium	ND		0.0020	0.00092	mg/L		06/30/23 15:58	07/06/23 13:56	5
Boron	ND		0.050	0.029	mg/L		06/30/23 15:58	07/06/23 13:56	5
Cadmium	ND		0.0010	0.00065	mg/L		06/30/23 15:58	07/06/23 13:56	5
Calcium	ND		0.25	0.13	mg/L		06/30/23 15:58	07/06/23 13:56	5
Chromium	ND		0.0025	0.0021	mg/L		06/30/23 15:58	07/06/23 13:56	5
Cobalt	ND		0.0025	0.00056	mg/L		06/30/23 15:58	07/06/23 13:56	5
Lead	ND		0.0013	0.00081	mg/L		06/30/23 15:58	07/06/23 13:56	5
Lithium	ND		0.0025	0.0049	mg/L		06/30/23 15:58	07/06/23 13:56	5
Molybdenum	ND		0.010	0.0013	mg/L		06/30/23 15:58	07/06/23 13:56	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		06/30/23 15:58	07/06/23 14:06	5
Thallium	ND		0.00050	0.00046	mg/L		06/30/23 15:58	07/06/23 13:56	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:10	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			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			06/27/23 10:22	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	**2.5**	**J**	5.0	1.4	mg/L			06/26/23 12:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			06/13/23 12:35	1

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

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: EQUIPMENT BLANK 2

Date Collected: 06/13/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/30/23 15:58	07/06/23 14:00	5
Arsenic	ND		0.0013	0.0012	mg/L		06/30/23 15:58	07/06/23 14:00	5
Barium	ND		0.0025	0.0018	mg/L		06/30/23 15:58	07/06/23 14:00	5
Beryllium	ND		0.0020	0.00092	mg/L		06/30/23 15:58	07/06/23 14:00	5
Boron	ND		0.050	0.029	mg/L		06/30/23 15:58	07/06/23 14:00	5
Cadmium	ND		0.0010	0.00065	mg/L		06/30/23 15:58	07/06/23 14:00	5
Calcium	**0.13**	**J**	0.25	0.13	mg/L		06/30/23 15:58	07/06/23 14:00	5
Chromium	ND		0.0025	0.0021	mg/L		06/30/23 15:58	07/06/23 14:00	5
Cobalt	ND		0.0025	0.00056	mg/L		06/30/23 15:58	07/06/23 14:00	5
Lead	ND		0.0013	0.00081	mg/L		06/30/23 15:58	07/06/23 14:00	5
Lithium	ND		0.0025	0.0049	mg/L		06/30/23 15:58	07/06/23 14:00	5
Molybdenum	ND		0.010	0.0013	mg/L		06/30/23 15:58	07/06/23 14:00	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		06/30/23 15:58	07/06/23 14:00	5
Thallium	ND		0.00050	0.00046	mg/L		06/30/23 15:58	07/06/23 14:00	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:11	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			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			06/27/23 10:22	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	**2.1**	**J**	5.0	1.4	mg/L			06/26/23 12:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			06/13/23 12:40	1

Client Sample Results

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

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: FIELD BLANK

Date Collected: 06/13/23 13:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/30/23 15:58	07/06/23 14:03	5
Arsenic	ND		0.0013	0.0012	mg/L		06/30/23 15:58	07/06/23 14:03	5
Barium	ND		0.0025	0.0018	mg/L		06/30/23 15:58	07/06/23 14:03	5
Beryllium	ND		0.0020	0.00092	mg/L		06/30/23 15:58	07/06/23 14:03	5
Boron	ND		0.050	0.029	mg/L		06/30/23 15:58	07/06/23 14:03	5
Cadmium	ND		0.0010	0.00065	mg/L		06/30/23 15:58	07/06/23 14:03	5
Calcium	ND		0.25	0.13	mg/L		06/30/23 15:58	07/06/23 14:03	5
Chromium	ND		0.0025	0.0021	mg/L		06/30/23 15:58	07/06/23 14:03	5
Cobalt	ND		0.0025	0.00056	mg/L		06/30/23 15:58	07/06/23 14:03	5
Lead	ND		0.0013	0.00081	mg/L		06/30/23 15:58	07/06/23 14:03	5
Lithium	ND		0.0025	0.0049	mg/L		06/30/23 15:58	07/06/23 14:03	5
Molybdenum	ND		0.010	0.0013	mg/L		06/30/23 15:58	07/06/23 14:03	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		06/30/23 15:58	07/06/23 14:03	5
Thallium	ND		0.00050	0.00046	mg/L		06/30/23 15:58	07/06/23 14:03	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/22/23 10:12	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			06/19/23 16:36	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			06/27/23 10:23	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			06/29/23 11:02	1
Sulfate (SM 4500 SO4 E)	**2.0**	**J**	5.0	1.4	mg/L			06/26/23 12:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			06/13/23 12:25	1

Definitions/Glossary

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

Job ID: 400-239198-1
SDG: Crisp County Power

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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 CCR

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: DUP-7
Date Collected: 06/13/23 12:00
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631550	KWN	EET PEN	06/30/23 15:58 - 06/30/23 18:46 [1]
Total Recoverable	Analysis	6020B		5	632169	NTH	EET PEN	07/06/23 13:53
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:09
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:20
Total/NA	Analysis	SM 4500 F C		1	630835	JP	EET PEN	06/26/23 16:10
Total/NA	Analysis	SM 4500 SO4 E		1	630803	CJK	EET PEN	06/26/23 12:30
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 11:00

Client Sample ID: EQUIPMENT BLANK 1
Date Collected: 06/13/23 13:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631550	KWN	EET PEN	06/30/23 15:58 - 06/30/23 18:46 [1]
Total Recoverable	Analysis	6020B		5	632169	NTH	EET PEN	07/06/23 13:56
Total Recoverable	Prep	3005A			631550	KWN	EET PEN	06/30/23 15:58 - 06/30/23 18:46 [1]
Total Recoverable	Analysis	6020B		5	632169	NTH	EET PEN	07/06/23 14:06
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:10
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:22
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02
Total/NA	Analysis	SM 4500 SO4 E		1	630803	CJK	EET PEN	06/26/23 12:31
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 12:35

Client Sample ID: EQUIPMENT BLANK 2
Date Collected: 06/13/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631550	KWN	EET PEN	06/30/23 15:58 - 06/30/23 18:46 [1]
Total Recoverable	Analysis	6020B		5	632169	NTH	EET PEN	07/06/23 14:00
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:11
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:22
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02
Total/NA	Analysis	SM 4500 SO4 E		1	630803	CJK	EET PEN	06/26/23 12:31
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 12:40

Lab Chronicle

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

Job ID: 400-239198-1
SDG: Crisp County Power

Client Sample ID: FIELD BLANK

Date Collected: 06/13/23 13:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			631550	KWN	EET PEN	06/30/23 15:58 - 06/30/23 18:46 [1]
Total Recoverable	Analysis	6020B		5	632169	NTH	EET PEN	07/06/23 14:03
Total/NA	Prep	7470A			630026	NET	EET PEN	06/21/23 13:00 - 06/21/23 15:30 [1]
Total/NA	Analysis	7470A		1	630397	BAW	EET PEN	06/22/23 10:12
Total/NA	Analysis	SM 2540C		1	629853	VB	EET PEN	06/19/23 16:36
Total/NA	Analysis	SM 4500 Cl- E		1	630973	CJK	EET PEN	06/27/23 10:23
Total/NA	Analysis	SM 4500 F C		1	631326	JP	EET PEN	06/29/23 11:02
Total/NA	Analysis	SM 4500 SO4 E		1	630803	CJK	EET PEN	06/26/23 12:31
Total/NA	Analysis	Field Sampling		1	629480	P1P	EET PEN	06/13/23 12:25

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 630026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	7470A	
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	7470A	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	7470A	
400-239198-4	FIELD BLANK	Total/NA	Water	7470A	
MB 400-630026/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-630026/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-239196-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-239196-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 630397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	7470A	630026
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	7470A	630026
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	7470A	630026
400-239198-4	FIELD BLANK	Total/NA	Water	7470A	630026
MB 400-630026/14-A	Method Blank	Total/NA	Water	7470A	630026
LCS 400-630026/15-A	Lab Control Sample	Total/NA	Water	7470A	630026
400-239196-C-1-B MS	Matrix Spike	Total/NA	Water	7470A	630026
400-239196-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	630026

Prep Batch: 631550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total Recoverable	Water	3005A	
400-239198-2	EQUIPMENT BLANK 1	Total Recoverable	Water	3005A	
400-239198-3	EQUIPMENT BLANK 2	Total Recoverable	Water	3005A	
400-239198-4	FIELD BLANK	Total Recoverable	Water	3005A	
MB 400-631550/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-631550/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-239838-A-2-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-239838-A-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 631654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239838-A-2-B MS ^5	Matrix Spike	Total Recoverable	Water	6020B	631550
400-239838-A-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020B	631550

Analysis Batch: 632169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total Recoverable	Water	6020B	631550
400-239198-2	EQUIPMENT BLANK 1	Total Recoverable	Water	6020B	631550
400-239198-2	EQUIPMENT BLANK 1	Total Recoverable	Water	6020B	631550
400-239198-3	EQUIPMENT BLANK 2	Total Recoverable	Water	6020B	631550
400-239198-4	FIELD BLANK	Total Recoverable	Water	6020B	631550
MB 400-631550/1-A ^5	Method Blank	Total Recoverable	Water	6020B	631550
LCS 400-631550/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	631550

General Chemistry

Analysis Batch: 629853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 629853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	SM 2540C	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	SM 2540C	
400-239198-4	FIELD BLANK	Total/NA	Water	SM 2540C	
MB 400-629853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-629853/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-239197-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 630803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	SM 4500 SO4 E	
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	SM 4500 SO4 E	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	SM 4500 SO4 E	
400-239198-4	FIELD BLANK	Total/NA	Water	SM 4500 SO4 E	
MB 400-630803/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-630803/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-630803/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-239192-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-239192-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 630835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	SM 4500 F C	
MB 400-630835/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-630835/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-630835/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
680-236358-H-7 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
680-236358-H-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-239535-L-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 630973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	SM 4500 Cl- E	
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	SM 4500 Cl- E	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	SM 4500 Cl- E	
400-239198-4	FIELD BLANK	Total/NA	Water	SM 4500 Cl- E	
MB 400-630973/36	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-630973/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-630973/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-630973/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-239198-1 MS	DUP-7	Total/NA	Water	SM 4500 Cl- E	
400-239198-1 MSD	DUP-7	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 631326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	SM 4500 F C	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	SM 4500 F C	
400-239198-4	FIELD BLANK	Total/NA	Water	SM 4500 F C	
MB 400-631326/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-631326/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-631326/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-239196-B-2 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	

General Chemistry (Continued)

Analysis Batch: 631326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239196-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-239198-2 DU	EQUIPMENT BLANK 1	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 629480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	Field Sampling	
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	Field Sampling	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	Field Sampling	
400-239198-4	FIELD BLANK	Total/NA	Water	Field Sampling	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-631550/1-A ^5
Matrix: Water
Analysis Batch: 632169

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		06/30/23 15:58	07/06/23 13:47	5
Arsenic	ND		0.0013	0.0012	mg/L		06/30/23 15:58	07/06/23 13:47	5
Barium	ND		0.0025	0.0018	mg/L		06/30/23 15:58	07/06/23 13:47	5
Beryllium	ND		0.0020	0.00092	mg/L		06/30/23 15:58	07/06/23 13:47	5
Boron	ND		0.050	0.029	mg/L		06/30/23 15:58	07/06/23 13:47	5
Cadmium	ND		0.0010	0.00065	mg/L		06/30/23 15:58	07/06/23 13:47	5
Calcium	ND		0.25	0.13	mg/L		06/30/23 15:58	07/06/23 13:47	5
Chromium	ND		0.0025	0.0021	mg/L		06/30/23 15:58	07/06/23 13:47	5
Cobalt	ND		0.0025	0.00056	mg/L		06/30/23 15:58	07/06/23 13:47	5
Lead	ND		0.0013	0.00081	mg/L		06/30/23 15:58	07/06/23 13:47	5
Lithium	ND		0.0025	0.0049	mg/L		06/30/23 15:58	07/06/23 13:47	5
Molybdenum	ND		0.010	0.0013	mg/L		06/30/23 15:58	07/06/23 13:47	5
Selenium	ND	^3+	0.0013	0.00082	mg/L		06/30/23 15:58	07/06/23 13:47	5
Thallium	ND		0.00050	0.00046	mg/L		06/30/23 15:58	07/06/23 13:47	5

Lab Sample ID: LCS 400-631550/2-A ^5
Matrix: Water
Analysis Batch: 632169

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0465		mg/L		93	80 - 120
Arsenic	0.0500	0.0416		mg/L		83	80 - 120
Barium	0.0500	0.0454		mg/L		91	80 - 120
Beryllium	0.0500	0.0466		mg/L		93	80 - 120
Boron	0.100	0.0877		mg/L		88	80 - 120
Cadmium	0.0500	0.0475		mg/L		95	80 - 120
Calcium	5.00	4.43		mg/L		89	80 - 120
Chromium	0.0500	0.0462		mg/L		92	80 - 120
Cobalt	0.0500	0.0455		mg/L		91	80 - 120
Lead	0.0500	0.0447		mg/L		89	80 - 120
Lithium	0.0500	0.0437		mg/L		87	80 - 120
Molybdenum	0.0500	0.0438		mg/L		88	80 - 120
Selenium	0.0500	0.0451	^3+	mg/L		90	80 - 120
Thallium	0.0100	0.00906		mg/L		91	80 - 120

Lab Sample ID: 400-239838-A-2-B MS ^5
Matrix: Water
Analysis Batch: 631654

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 631550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	^-	0.0500	0.0528	^-	mg/L		106	75 - 125
Arsenic	ND	^-	0.0500	0.0498	^-	mg/L		100	75 - 125
Barium	0.015	^-	0.0500	0.0710	^-	mg/L		112	75 - 125
Beryllium	ND	^-	0.0500	0.0513	^-	mg/L		103	75 - 125
Boron	ND	^- *-	0.100	0.0900	^-	mg/L		90	75 - 125
Cadmium	ND	^-	0.0500	0.0509	^-	mg/L		102	75 - 125
Calcium	0.38	^-	5.00	5.52	^-	mg/L		103	75 - 125
Chromium	ND	^-	0.0500	0.0499	^-	mg/L		100	75 - 125
Cobalt	0.0013	J ^-	0.0500	0.0521	^-	mg/L		102	75 - 125

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

Lab Sample ID: 400-239838-A-2-B MS ^5
Matrix: Water
Analysis Batch: 631654

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 631550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND	^-	0.0500	0.0505	^-	mg/L		101	75 - 125
Lithium	ND	^-	0.0500	0.0517	^-	mg/L		103	75 - 125
Molybdenum	ND	^-	0.0500	0.0524	^-	mg/L		105	75 - 125
Selenium	0.0016	^- B	0.0500	0.0497	^-	mg/L		96	75 - 125
Thallium	ND	^-	0.0100	0.0103	^-	mg/L		103	75 - 125

Lab Sample ID: 400-239838-A-2-C MSD ^5
Matrix: Water
Analysis Batch: 631654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 631550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	^-	0.0500	0.0529	^-	mg/L		106	75 - 125	0	20
Arsenic	ND	^-	0.0500	0.0503	^-	mg/L		101	75 - 125	1	20
Barium	0.015	^-	0.0500	0.0678	^-	mg/L		106	75 - 125	5	20
Beryllium	ND	^-	0.0500	0.0498	^-	mg/L		100	75 - 125	3	20
Boron	ND	^- *-	0.100	0.0922	^-	mg/L		92	75 - 125	2	20
Cadmium	ND	^-	0.0500	0.0500	^-	mg/L		100	75 - 125	2	20
Calcium	0.38	^-	5.00	5.30	^-	mg/L		98	75 - 125	4	20
Chromium	ND	^-	0.0500	0.0499	^-	mg/L		100	75 - 125	0	20
Cobalt	0.0013	J ^-	0.0500	0.0515	^-	mg/L		100	75 - 125	1	20
Lead	ND	^-	0.0500	0.0497	^-	mg/L		99	75 - 125	2	20
Lithium	ND	^-	0.0500	0.0492	^-	mg/L		98	75 - 125	5	20
Molybdenum	ND	^-	0.0500	0.0507	^-	mg/L		101	75 - 125	3	20
Selenium	0.0016	^- B	0.0500	0.0520	^-	mg/L		101	75 - 125	5	20
Thallium	ND	^-	0.0100	0.00990	^-	mg/L		99	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-630026/14-A
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		06/21/23 13:00	06/21/23 15:45	1

Lab Sample ID: LCS 400-630026/15-A
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.000880		mg/L		87	80 - 120

Lab Sample ID: 400-239196-C-1-B MS
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	F1	0.00201	0.00275	F1	mg/L		137	80 - 120

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

Lab Sample ID: 400-239196-C-1-C MSD
Matrix: Water
Analysis Batch: 630397

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 630026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.00201	0.00273	F1	mg/L		136	80 - 120	1	20

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

Lab Sample ID: MB 400-629853/1
Matrix: Water
Analysis Batch: 629853

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			06/19/23 16:36	1

Lab Sample ID: LCS 400-629853/2
Matrix: Water
Analysis Batch: 629853

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	330		mg/L		113	78 - 122

Lab Sample ID: 400-239197-B-2 DU
Matrix: Water
Analysis Batch: 629853

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	220		224		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-630973/36
Matrix: Water
Analysis Batch: 630973

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			06/27/23 10:35	1

Lab Sample ID: MB 400-630973/5
Matrix: Water
Analysis Batch: 630973

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			06/27/23 10:19	1

Lab Sample ID: LCS 400-630973/6
Matrix: Water
Analysis Batch: 630973

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	53.5		mg/L		107	90 - 110

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

Lab Sample ID: MRL 400-630973/7
Matrix: Water
Analysis Batch: 630973

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	2.54		mg/L		127	50 - 150		

Lab Sample ID: 400-239198-1 MS
Matrix: Water
Analysis Batch: 630973

Client Sample ID: DUP-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2.3		10.0	11.7		mg/L		94	73 - 120		

Lab Sample ID: 400-239198-1 MSD
Matrix: Water
Analysis Batch: 630973

Client Sample ID: DUP-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.3		10.0	11.6		mg/L		93	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-630835/10
Matrix: Water
Analysis Batch: 630835

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	0.070	mg/L			06/26/23 16:10	1

Lab Sample ID: LCS 400-630835/12
Matrix: Water
Analysis Batch: 630835

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	4.63		mg/L		93	90 - 110		

Lab Sample ID: MRL 400-630835/11
Matrix: Water
Analysis Batch: 630835

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	0.0983	J	mg/L		98			

Lab Sample ID: 680-236358-H-7 MS
Matrix: Water
Analysis Batch: 630835

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	ND		0.100	0.120		mg/L		120	75 - 125		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 680-236358-H-7 MSD
Matrix: Water
Analysis Batch: 630835

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	ND		0.100	0.120		mg/L		120	75 - 125	0	4

Lab Sample ID: 400-239535-L-1 DU
Matrix: Water
Analysis Batch: 630835

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	4

Lab Sample ID: MB 400-631326/10
Matrix: Water
Analysis Batch: 631326

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	0.070	mg/L			06/29/23 11:02	1

Lab Sample ID: LCS 400-631326/12
Matrix: Water
Analysis Batch: 631326

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	4.79		mg/L		96	90 - 110

Lab Sample ID: MRL 400-631326/11
Matrix: Water
Analysis Batch: 631326

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	0.101		mg/L		101	

Lab Sample ID: 400-239196-B-2 MS
Matrix: Water
Analysis Batch: 631326

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	0.12		0.100	0.216		mg/L		97	75 - 125

Lab Sample ID: 400-239196-B-2 MSD
Matrix: Water
Analysis Batch: 631326

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	0.12		0.100	0.216		mg/L		97	75 - 125	0	4

Lab Sample ID: 400-239198-2 DU
Matrix: Water
Analysis Batch: 631326

Client Sample ID: EQUIPMENT BLANK 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-630803/12
Matrix: Water
Analysis Batch: 630803

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			06/26/23 12:06	1

Lab Sample ID: LCS 400-630803/13
Matrix: Water
Analysis Batch: 630803

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	14.2		mg/L		95	90 - 110		

Lab Sample ID: MRL 400-630803/14
Matrix: Water
Analysis Batch: 630803

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	4.22	J	mg/L		84	50 - 150		

Lab Sample ID: 400-239192-A-1 MS
Matrix: Water
Analysis Batch: 630803

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	8.3	F1 F2	10.0	17.2		mg/L		89	77 - 128		

Lab Sample ID: 400-239192-A-1 MSD
Matrix: Water
Analysis Batch: 630803

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	8.3	F1 F2	10.0	15.5	F1 F2	mg/L		72	77 - 128	10	5

Eurofins Pensacola
3355 McLem[illegible]ive
Pensacola [illegible]14
Phone 850-474-1001 Fax 850-478-2671

Chain of Custo[illegible] Record

eurofins [illegible]vironment Testing [illegible]rica

400-239198 COC

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	[illegible]o(s)	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 276-389-4485	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Powe[illegible]	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
Dup-7	N/A	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
Equipment Blank 1	06/13/23	1335	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
Equipment Blank 2	06/13/23	1340	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
Field Blank	06/13/23	1325	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												DG
DG				Water								DG				
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Derya Genc GEO	06/14/23 1430	GEO	FEDEX	06/14/23	FEDEX
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[illegible]	6-14-23 19:29	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				15 AW	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
		2.8°C / IR 6

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239198-1
SDG Number: Crisp County Power

Login Number: 239198
List Number: 1
Creator: Whitley, Adrian

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.	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	2.8°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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Accreditation/Certification Summary

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

Job ID: 400-239198-1
SDG: Crisp County Power

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	09-01-23
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

eurofins | Environment Testing

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 CCR
SDG NUMBER Crisp County Power

JOB NUMBER

400-239198-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

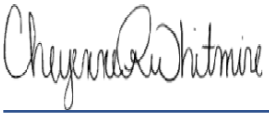
my EOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-239198-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-239198-2

Receipt
The samples were received on 6/15/2023 9:29 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 2.8º C.

RAD
Method 9315: Radium-226 batch 160-616555. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drink Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-7 (400-239198-1), EQUIPMEN BLANK 1 (400-239198-2), EQUIPMENT BLANK 2 (400-239198-3), FIELD BLANK (400-239198-4), (LCS 160-616555/2-A), (MB 160-616555/1-A), (810-66399-A-1-A) and (810-66399-B-1-A DU)

Method 9320: Radium-228 batch 160-616557. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drink Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-7 (400-239198-1), EQUIPMEN BLANK 1 (400-239198-2), EQUIPMENT BLANK 2 (400-239198-3), FIELD BLANK (400-239198-4), (LCS 160-616557/2-A), (MB 160-616557/1-A), (810-66399-A-1-B) and (810-66399-B-1-B DU)

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

Method Summary

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

Job ID: 400-239198-2
SDG: Crisp County Power

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 CCR

Job ID: 400-239198-2
SDG: Crisp County Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-239198-1	DUP-7	Water	06/13/23 12:00	06/15/23 09:29
400-239198-2	EQUIPMENT BLANK 1	Water	06/13/23 13:35	06/15/23 09:29
400-239198-3	EQUIPMENT BLANK 2	Water	06/13/23 13:40	06/15/23 09:29
400-239198-4	FIELD BLANK	Water	06/13/23 13:25	06/15/23 09:29

Client Sample ID: DUP-7

Date Collected: 06/13/23 12:00
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0274	U	0.0523	0.0524	1.00	0.0941	pCi/L	06/19/23 10:51	07/17/23 20:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*30 - 110*	*06/19/23 10:51*	*07/17/23 20:50*	*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	0.0901	U	0.336	0.336	1.00	0.603	pCi/L	06/19/23 10:54	07/03/23 15:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*1*
Y Carrier	*84.1*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*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	0.117	U	0.340	0.340	5.00	0.603	pCi/L		07/18/23 13:50	1

Client Sample ID: EQUIPMENT BLANK 1

Date Collected: 06/13/23 13:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0486	U	0.0569	0.0571	1.00	0.0921	pCi/L	06/19/23 10:51	07/17/23 20:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*06/19/23 10:51*	*07/17/23 20:50*	*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	0.111	U	0.325	0.325	1.00	0.580	pCi/L	06/19/23 10:54	07/03/23 15:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*1*
Y Carrier	*87.1*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*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	0.159	U	0.330	0.330	5.00	0.580	pCi/L		07/18/23 13:50	1

Client Sample ID: EQUIPMENT BLANK 2

Date Collected: 06/13/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0343	U	0.0770	0.0770	1.00	0.164	pCi/L	06/19/23 10:51	07/17/23 20:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.7*		*30 - 110*	*06/19/23 10:51*	*07/17/23 20:50*	*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	0.0599	U	0.371	0.371	1.00	0.684	pCi/L	06/19/23 10:54	07/03/23 15:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.7*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*1*
Y Carrier	*84.5*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*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	0.0257	U	0.379	0.379	5.00	0.684	pCi/L		07/18/23 14:33	1

Client Sample ID: FIELD BLANK

Date Collected: 06/13/23 13:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-4

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0283	U	0.0433	0.0433	1.00	0.105	pCi/L	06/19/23 10:51	07/17/23 20:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*06/19/23 10:51*	*07/17/23 20:50*	*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	0.142	U	0.305	0.305	1.00	0.533	pCi/L	06/19/23 10:54	07/03/23 15:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*1*
Y Carrier	*85.6*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:11*	*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	0.114	U	0.308	0.308	5.00	0.533	pCi/L		07/18/23 14:33	1

Definitions/Glossary

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

Job ID: 400-239198-2
SDG: Crisp County Power

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 CCR

Job ID: 400-239198-2
SDG: Crisp County Power

Client Sample ID: DUP-7
Date Collected: 06/13/23 12:00
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616555	KAC	EET SL	06/19/23 10:51
Total/NA	Analysis	9315		1	620395	SCB	EET SL	07/17/23 20:50
Total/NA	Prep	PrecSep_0			616557	KAC	EET SL	06/19/23 10:54
Total/NA	Analysis	9320		1	618698	FLC	EET SL	07/03/23 15:11
Total/NA	Analysis	Ra226_Ra228		1	620374	SCB	EET SL	07/18/23 13:50

Client Sample ID: EQUIPMENT BLANK 1
Date Collected: 06/13/23 13:35
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616555	KAC	EET SL	06/19/23 10:51
Total/NA	Analysis	9315		1	620395	SCB	EET SL	07/17/23 20:50
Total/NA	Prep	PrecSep_0			616557	KAC	EET SL	06/19/23 10:54
Total/NA	Analysis	9320		1	618698	FLC	EET SL	07/03/23 15:11
Total/NA	Analysis	Ra226_Ra228		1	620374	SCB	EET SL	07/18/23 13:50

Client Sample ID: EQUIPMENT BLANK 2
Date Collected: 06/13/23 13:40
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616555	KAC	EET SL	06/19/23 10:51
Total/NA	Analysis	9315		1	620395	SCB	EET SL	07/17/23 20:50
Total/NA	Prep	PrecSep_0			616557	KAC	EET SL	06/19/23 10:54
Total/NA	Analysis	9320		1	618698	FLC	EET SL	07/03/23 15:11
Total/NA	Analysis	Ra226_Ra228		1	620374	SCB	EET SL	07/18/23 14:33

Client Sample ID: FIELD BLANK
Date Collected: 06/13/23 13:25
Date Received: 06/15/23 09:29

Lab Sample ID: 400-239198-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			616555	KAC	EET SL	06/19/23 10:51
Total/NA	Analysis	9315		1	620395	SCB	EET SL	07/17/23 20:50
Total/NA	Prep	PrecSep_0			616557	KAC	EET SL	06/19/23 10:54
Total/NA	Analysis	9320		1	618698	FLC	EET SL	07/03/23 15:11
Total/NA	Analysis	Ra226_Ra228		1	620374	SCB	EET SL	07/18/23 14:33

Laboratory References:

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

Rad

Prep Batch: 616555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	PrecSep-21	
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	PrecSep-21	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	PrecSep-21	
400-239198-4	FIELD BLANK	Total/NA	Water	PrecSep-21	
MB 160-616555/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-616555/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
810-66399-B-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 616557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-239198-1	DUP-7	Total/NA	Water	PrecSep_0	
400-239198-2	EQUIPMENT BLANK 1	Total/NA	Water	PrecSep_0	
400-239198-3	EQUIPMENT BLANK 2	Total/NA	Water	PrecSep_0	
400-239198-4	FIELD BLANK	Total/NA	Water	PrecSep_0	
MB 160-616557/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-616557/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-66399-B-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-616555/1-A
Matrix: Water
Analysis Batch: 619765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616555

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02304	U	0.0516	0.0517	1.00	0.119	pCi/L	06/19/23 10:51	07/11/23 10:24	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*30 - 110*	*06/19/23 10:51*	*07/11/23 10:24*	*1*

Lab Sample ID: LCS 160-616555/2-A
Matrix: Water
Analysis Batch: 620395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616555

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.10		1.05	1.00	0.0891	pCi/L	89	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*88.3*		*30 - 110*

Lab Sample ID: 810-66399-B-1-A DU
Matrix: Water
Analysis Batch: 620395

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 616555

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.467			0.5039		0.142	1.00	0.0657	pCi/L			0.14	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*77.1*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-616557/1-A
Matrix: Water
Analysis Batch: 618698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616557

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.03668	U	0.268	0.268	1.00	0.520	pCi/L	06/19/23 10:54	07/03/23 15:10	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:10*	*1*
Y Carrier	*83.4*		*30 - 110*	*06/19/23 10:54*	*07/03/23 15:10*	*1*

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

Lab Sample ID: LCS 160-616557/2-A
Matrix: Water
Analysis Batch: 618698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616557

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.07	9.325		1.29	1.00	0.599	pCi/L	116	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*88.3*		*30 - 110*
Y Carrier	*88.2*		*30 - 110*

Lab Sample ID: 810-66399-B-1-B DU
Matrix: Water
Analysis Batch: 618698

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 616557

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.491			0.5701		0.407	1.00	0.366	pCi/L			0.10	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*77.1*		*30 - 110*
Y Carrier	*77.0*		*30 - 110*

Eurofins Pensacola
3355 McLem[illegible]ive
Pensacola [illegible]14
Phone 850-474-1001 Fax 850-478-2671

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eurofins [illegible]vironment Testing [illegible]rica

400-239198 COC

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	[illegible]o(s)	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA 30144	Compliance Project: Δ Yes Δ No			
Phone: 276-389-4485	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Powe[illegible]	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
	Preservation Code:															
Dup-7	N/A	N/A	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
Equipment Blank 1	06/13/23	1335	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
Equipment Blank 2	06/13/23	1340	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
Field Blank	06/13/23	1325	G	Water	N	N	X	X	X	X	X	X	X	X		N/A
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG DG DG

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Derya Genc	06/14/23 1430	GEO	FEDEX	06/14/23	FEDEX
			[signature]	6-14-23 19:29	
				15 AW	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8°C / IR 6

Ver 06/08/2021

7/18/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239198-2
SDG Number: Crisp County Power

Login Number: 239198
List Number: 1
Creator: Whitley, Adrian

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.	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	2.8°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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-239198-2
SDG Number: Crisp County Power

Login Number: 239198
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 06/16/23 01:23 PM

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

Accreditation/Certification Summary

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

Job ID: 400-239198-2
SDG: Crisp County Power

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23 *
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-23 *
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23 *
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23 *
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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

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

400-241239-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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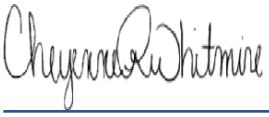
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-241239-1

Job ID: 400-241239-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-241239-1

Receipt
The samples were received on 7/29/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.4º C, 4.0º C and 4.5º C.

General Chemistry
Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-636822 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

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

Job ID: 400-241239-1

Client Sample ID: MW-U2 — Lab Sample ID: 400-241239-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.011		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	18		0.25	0.13	mg/L	5		6020B	Total Recoverable
Selenium	0.0011	J	0.0013	0.00082	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	90		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.093	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	19	F1	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: MW-D5 — Lab Sample ID: 400-241239-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	42		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	8.1		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	6.72				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D4 — Lab Sample ID: 400-241239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.020		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.4	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.11		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Field pH	7.51				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D6 — Lab Sample ID: 400-241239-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0081		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.75				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U1 — Lab Sample ID: 400-241239-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0043		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	37		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	7.65				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 400-241239-1

Client Sample ID: FB-2 — Lab Sample ID: 400-241239-6

No Detections.

Client Sample ID: DUP-08 — Lab Sample ID: 400-241239-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.091		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.042	J	0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	66		0.25	0.13	mg/L	5		6020B	Total Recoverable
Cobalt	0.00071	J	0.0025	0.00056	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.073	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.3	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-D7 — Lab Sample ID: 400-241239-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.095		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.036	J	0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	69		0.25	0.13	mg/L	5		6020B	Total Recoverable
Cobalt	0.00077	J	0.0025	0.00056	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.076	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.1	J	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: MW-D8 — Lab Sample ID: 400-241239-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.056		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.039	J	0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	82		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	250		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	6.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	20		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9 — Lab Sample ID: 400-241239-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0013	0.0012	mg/L	5		6020B	Total Recoverable
Barium	0.040		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Calcium	56		0.25	0.13	mg/L	5		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 400-241239-1

Client Sample ID: MW-D9 (Continued)

Lab Sample ID: 400-241239-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.7	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.086	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Field pH	7.48				SU	1		Field Sampling	Total/NA

Client Sample ID: EB-3

Lab Sample ID: 400-241239-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.48				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-241239-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-241239-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-241239-1	MW-U2	Water	07/27/23 09:00	07/29/23 08:00
400-241239-2	MW-D5	Water	07/27/23 15:05	07/29/23 08:00
400-241239-3	MW-D4	Water	07/27/23 17:10	07/29/23 08:00
400-241239-4	MW-D6	Water	07/27/23 12:25	07/29/23 08:00
400-241239-5	MW-U1	Water	07/27/23 10:25	07/29/23 08:00
400-241239-6	FB-2	Water	07/28/23 12:00	07/29/23 08:00
400-241239-7	DUP-08	Water	07/28/23 12:00	07/29/23 08:00
400-241239-8	MW-D7	Water	07/28/23 09:48	07/29/23 08:00
400-241239-9	MW-D8	Water	07/26/23 15:00	07/29/23 08:00
400-241239-10	MW-D9	Water	07/26/23 14:14	07/29/23 08:00
400-241239-11	EB-3	Water	07/26/23 14:14	07/29/23 08:00

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

Job ID: 400-241239-1

Client Sample ID: MW-U2

Date Collected: 07/27/23 09:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 16:57	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 16:57	5
Barium	**0.011**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 16:57	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 16:57	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 16:57	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 16:57	5
Calcium	**18**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 16:57	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 16:57	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 16:57	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 16:57	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 16:57	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 16:57	5
Selenium	**0.0011**	**J**	0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 16:57	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 16:57	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:42	08/01/23 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**90**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			08/11/23 13:03	1
Fluoride (SM 4500 F C)	**0.093**	**J**	0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	**19**	**F1**	5.0	1.4	mg/L			08/12/23 15:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.50**				SU			07/27/23 08:00	1

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

Job ID: 400-241239-1

Client Sample ID: MW-D5

Date Collected: 07/27/23 15:05
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:01	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:01	5
Barium	**0.030**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:01	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:01	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:01	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:01	5
Calcium	**42**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:01	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:01	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:01	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:01	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:01	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:01	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:01	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:01	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:42	08/01/23 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**170**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**8.1**		2.0	1.4	mg/L			08/11/23 13:04	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			08/12/23 15:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.72**				SU			07/27/23 14:05	1

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

Job ID: 400-241239-1

Client Sample ID: MW-D4
Date Collected: 07/27/23 17:10
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:04	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:04	5
Barium	**0.020**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:04	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:04	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:04	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:04	5
Calcium	**45**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:04	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:04	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:04	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:04	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:04	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:04	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:04	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:04	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1	0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**1.4**	**J**	2.0	1.4	mg/L			08/11/23 13:05	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			08/12/23 15:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.51**				SU			07/27/23 16:10	1

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

Job ID: 400-241239-1

Client Sample ID: MW-D6

Date Collected: 07/27/23 12:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:07	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:07	5
Barium	**0.0081**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:07	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:07	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:07	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:07	5
Calcium	**35**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:07	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:07	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:07	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:07	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:07	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:07	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:07	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:07	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**110**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**4.4**		2.0	1.4	mg/L			08/11/23 13:05	1
Fluoride (SM 4500 F C)	**0.10**		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	**2.1**	**J**	5.0	1.4	mg/L			08/12/23 15:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.75**				SU			07/27/23 11:25	1

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

Job ID: 400-241239-1

Client Sample ID: MW-U1

Date Collected: 07/27/23 10:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:10	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:10	5
Barium	**0.0043**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:10	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:10	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:10	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:10	5
Calcium	**37**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:10	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:10	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:10	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:10	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:10	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:10	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:10	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:10	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**110**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			08/11/23 13:06	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			08/12/23 15:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.65**				SU			07/27/23 09:25	1

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

Job ID: 400-241239-1

Client Sample ID: FB-2

Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:14	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:14	5
Barium	ND		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:14	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:14	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:14	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:14	5
Calcium	ND		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:14	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:14	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:14	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:14	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:14	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:14	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:14	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:14	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:28	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			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			08/11/23 13:06	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			08/12/23 15:12	1

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

Job ID: 400-241239-1

Client Sample ID: DUP-08
Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:17	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:17	5
Barium	**0.091**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:17	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:17	5
Boron	**0.042**	**J**	0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:17	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:17	5
Calcium	**66**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:17	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:17	5
Cobalt	**0.00071**	**J**	0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:17	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:17	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:17	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:17	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:17	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:17	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**3.3**		2.0	1.4	mg/L			08/11/23 13:07	1
Fluoride (SM 4500 F C)	**0.073**	**J**	0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	**3.3**	**J**	5.0	1.4	mg/L			08/12/23 15:12	1

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

Job ID: 400-241239-1

Client Sample ID: MW-D7

Date Collected: 07/28/23 09:48
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:20	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:20	5
Barium	**0.095**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:20	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:20	5
Boron	**0.036**	**J**	0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:20	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:20	5
Calcium	**69**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:20	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:20	5
Cobalt	**0.00077**	**J**	0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:20	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:20	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:20	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:20	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:20	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:20	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**230**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**3.8**		2.0	1.4	mg/L			08/11/23 13:07	1
Fluoride (SM 4500 F C)	**0.076**	**J**	0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	**4.1**	**J**	5.0	1.4	mg/L			08/12/23 15:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.22**				SU			07/28/23 08:48	1

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

Job ID: 400-241239-1

Client Sample ID: MW-D8

Date Collected: 07/26/23 15:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:24	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:24	5
Barium	**0.056**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:24	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:24	5
Boron	**0.039**	**J**	0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:24	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:24	5
Calcium	**82**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:24	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:24	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:24	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:24	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:24	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:24	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:24	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:24	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	08/01/23 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**250**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**6.8**		2.0	1.4	mg/L			08/11/23 13:08	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	**20**		5.0	1.4	mg/L			08/12/23 15:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.06**				SU			07/26/23 14:00	1

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

Job ID: 400-241239-1

Client Sample ID: MW-D9

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:27	5
Arsenic	**0.0013**		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:27	5
Barium	**0.040**		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:27	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:27	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:27	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:27	5
Calcium	**56**		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:27	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:27	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:27	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:27	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:27	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:27	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:27	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:27	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	08/01/23 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**170**		5.0	5.0	mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	**1.7**	**J**	2.0	1.4	mg/L			08/11/23 13:08	1
Fluoride (SM 4500 F C)	**0.086**	**J**	0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			08/12/23 15:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.48**				SU			07/26/23 13:14	1

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

Job ID: 400-241239-1

Client Sample ID: EB-3

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 17:53	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 17:53	5
Barium	ND		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 17:53	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 17:53	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 17:53	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 17:53	5
Calcium	ND		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 17:53	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 17:53	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 17:53	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 17:53	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 17:53	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 17:53	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 17:53	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 17:53	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	08/01/23 10:17	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			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			08/11/23 13:10	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			08/08/23 11:01	1
Sulfate (SM 4500 SO4 E)	ND	F1 F2	5.0	1.4	mg/L			08/12/23 15:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.48**				SU			07/26/23 13:14	1

Definitions/Glossary

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

Job ID: 400-241239-1

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.
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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

Job ID: 400-241239-1

Client Sample ID: MW-U2

Date Collected: 07/27/23 09:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 16:57
Total/NA	Prep	7470A			635206	NET	EET PEN	07/31/23 09:42 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635444	NET	EET PEN	08/01/23 14:40
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:03
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:08
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/27/23 08:00

Client Sample ID: MW-D5

Date Collected: 07/27/23 15:05
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:01
Total/NA	Prep	7470A			635206	NET	EET PEN	07/31/23 09:42 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635444	NET	EET PEN	08/01/23 14:41
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:04
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:10
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/27/23 14:05

Client Sample ID: MW-D4

Date Collected: 07/27/23 17:10
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:04
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	07/31/23 15:09
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:05
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:10
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/27/23 16:10

Lab Chronicle

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

Job ID: 400-241239-1

Client Sample ID: MW-D6

Date Collected: 07/27/23 12:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:07
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	07/31/23 15:26
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:05
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:11
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/27/23 11:25

Client Sample ID: MW-U1

Date Collected: 07/27/23 10:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:10
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	07/31/23 15:27
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:06
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:11
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/27/23 09:25

Client Sample ID: FB-2

Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:14
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	07/31/23 15:28
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:06
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:12

Client Sample ID: DUP-08

Lab Sample ID: 400-241239-7

Date Collected: 07/28/23 12:00

Matrix: Water

Date Received: 07/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:17
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	07/31/23 15:30
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:07
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:12

Client Sample ID: MW-D7

Lab Sample ID: 400-241239-8

Date Collected: 07/28/23 09:48

Matrix: Water

Date Received: 07/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:20
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	07/31/23 15:31
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:07
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:13
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/28/23 08:48

Client Sample ID: MW-D8

Lab Sample ID: 400-241239-9

Date Collected: 07/26/23 15:00

Matrix: Water

Date Received: 07/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:24
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	08/01/23 10:15
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:08
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:14
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/26/23 14:00

Lab Chronicle

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

Job ID: 400-241239-1

Client Sample ID: MW-D9

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:27
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	08/01/23 10:16
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:08
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:14
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/26/23 13:14

Client Sample ID: EB-3

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			636386	BAW	EET PEN	08/09/23 13:43 - 08/09/23 17:38 [1]
Total Recoverable	Analysis	6020B		5	636832	NTH	EET PEN	08/11/23 17:53
Total/NA	Prep	7470A			635208	NET	EET PEN	07/31/23 09:45 - 07/31/23 12:32 [1]
Total/NA	Analysis	7470A		1	635418	NET	EET PEN	08/01/23 10:17
Total/NA	Analysis	SM 2540C		1	635398	HA	EET PEN	08/01/23 11:48
Total/NA	Analysis	SM 4500 Cl- E		1	636761	CJK	EET PEN	08/11/23 13:10
Total/NA	Analysis	SM 4500 F C		1	636235	JP	EET PEN	08/08/23 11:01
Total/NA	Analysis	SM 4500 SO4 E		1	636822	CJK	EET PEN	08/12/23 15:15
Total/NA	Analysis	Field Sampling		1	635325	CJ	EET PEN	07/26/23 13:14

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Metals

Prep Batch: 635206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	7470A	
400-241239-2	MW-D5	Total/NA	Water	7470A	
MB 400-635206/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-635206/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-241178-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-241178-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 635208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-3	MW-D4	Total/NA	Water	7470A	
400-241239-4	MW-D6	Total/NA	Water	7470A	
400-241239-5	MW-U1	Total/NA	Water	7470A	
400-241239-6	FB-2	Total/NA	Water	7470A	
400-241239-7	DUP-08	Total/NA	Water	7470A	
400-241239-8	MW-D7	Total/NA	Water	7470A	
400-241239-9	MW-D8	Total/NA	Water	7470A	
400-241239-10	MW-D9	Total/NA	Water	7470A	
400-241239-11	EB-3	Total/NA	Water	7470A	
MB 400-635208/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-635208/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-241239-3 MS	MW-D4	Total/NA	Water	7470A	
400-241239-3 MSD	MW-D4	Total/NA	Water	7470A	

Analysis Batch: 635418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-3	MW-D4	Total/NA	Water	7470A	635208
400-241239-4	MW-D6	Total/NA	Water	7470A	635208
400-241239-5	MW-U1	Total/NA	Water	7470A	635208
400-241239-6	FB-2	Total/NA	Water	7470A	635208
400-241239-7	DUP-08	Total/NA	Water	7470A	635208
400-241239-8	MW-D7	Total/NA	Water	7470A	635208
400-241239-9	MW-D8	Total/NA	Water	7470A	635208
400-241239-10	MW-D9	Total/NA	Water	7470A	635208
400-241239-11	EB-3	Total/NA	Water	7470A	635208
MB 400-635208/14-A	Method Blank	Total/NA	Water	7470A	635208
LCS 400-635208/15-A	Lab Control Sample	Total/NA	Water	7470A	635208
400-241239-3 MS	MW-D4	Total/NA	Water	7470A	635208
400-241239-3 MSD	MW-D4	Total/NA	Water	7470A	635208

Analysis Batch: 635444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	7470A	635206
400-241239-2	MW-D5	Total/NA	Water	7470A	635206
MB 400-635206/14-A	Method Blank	Total/NA	Water	7470A	635206
LCS 400-635206/15-A	Lab Control Sample	Total/NA	Water	7470A	635206
400-241178-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	635206
400-241178-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	635206

Prep Batch: 636386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 636386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-2	MW-D5	Total Recoverable	Water	3005A	
400-241239-3	MW-D4	Total Recoverable	Water	3005A	
400-241239-4	MW-D6	Total Recoverable	Water	3005A	
400-241239-5	MW-U1	Total Recoverable	Water	3005A	
400-241239-6	FB-2	Total Recoverable	Water	3005A	
400-241239-7	DUP-08	Total Recoverable	Water	3005A	
400-241239-8	MW-D7	Total Recoverable	Water	3005A	
400-241239-9	MW-D8	Total Recoverable	Water	3005A	
400-241239-10	MW-D9	Total Recoverable	Water	3005A	
400-241239-11	EB-3	Total Recoverable	Water	3005A	
MB 400-636386/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-636386/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-241178-D-4-C MS ^25	Matrix Spike	Total Recoverable	Water	3005A	
400-241178-D-4-D MSD ^25	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 636796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241178-D-4-C MS ^25	Matrix Spike	Total Recoverable	Water	6020B	636386
400-241178-D-4-D MSD ^25	Matrix Spike Duplicate	Total Recoverable	Water	6020B	636386

Analysis Batch: 636832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total Recoverable	Water	6020B	636386
400-241239-2	MW-D5	Total Recoverable	Water	6020B	636386
400-241239-3	MW-D4	Total Recoverable	Water	6020B	636386
400-241239-4	MW-D6	Total Recoverable	Water	6020B	636386
400-241239-5	MW-U1	Total Recoverable	Water	6020B	636386
400-241239-6	FB-2	Total Recoverable	Water	6020B	636386
400-241239-7	DUP-08	Total Recoverable	Water	6020B	636386
400-241239-8	MW-D7	Total Recoverable	Water	6020B	636386
400-241239-9	MW-D8	Total Recoverable	Water	6020B	636386
400-241239-10	MW-D9	Total Recoverable	Water	6020B	636386
400-241239-11	EB-3	Total Recoverable	Water	6020B	636386
MB 400-636386/1-A ^5	Method Blank	Total Recoverable	Water	6020B	636386
LCS 400-636386/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	636386

General Chemistry

Analysis Batch: 635398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	SM 2540C	
400-241239-2	MW-D5	Total/NA	Water	SM 2540C	
400-241239-3	MW-D4	Total/NA	Water	SM 2540C	
400-241239-4	MW-D6	Total/NA	Water	SM 2540C	
400-241239-5	MW-U1	Total/NA	Water	SM 2540C	
400-241239-6	FB-2	Total/NA	Water	SM 2540C	
400-241239-7	DUP-08	Total/NA	Water	SM 2540C	
400-241239-8	MW-D7	Total/NA	Water	SM 2540C	
400-241239-9	MW-D8	Total/NA	Water	SM 2540C	
400-241239-10	MW-D9	Total/NA	Water	SM 2540C	
400-241239-11	EB-3	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 635398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-635398/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-635398/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-241239-10 DU	MW-D9	Total/NA	Water	SM 2540C	

Analysis Batch: 636235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	SM 4500 F C	
400-241239-2	MW-D5	Total/NA	Water	SM 4500 F C	
400-241239-3	MW-D4	Total/NA	Water	SM 4500 F C	
400-241239-4	MW-D6	Total/NA	Water	SM 4500 F C	
400-241239-5	MW-U1	Total/NA	Water	SM 4500 F C	
400-241239-6	FB-2	Total/NA	Water	SM 4500 F C	
400-241239-7	DUP-08	Total/NA	Water	SM 4500 F C	
400-241239-8	MW-D7	Total/NA	Water	SM 4500 F C	
400-241239-9	MW-D8	Total/NA	Water	SM 4500 F C	
400-241239-10	MW-D9	Total/NA	Water	SM 4500 F C	
400-241239-11	EB-3	Total/NA	Water	SM 4500 F C	
MB 400-636235/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-636235/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-636235/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-241239-1 MS	MW-U2	Total/NA	Water	SM 4500 F C	
400-241239-1 MSD	MW-U2	Total/NA	Water	SM 4500 F C	
400-241239-2 DU	MW-D5	Total/NA	Water	SM 4500 F C	

Analysis Batch: 636761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	SM 4500 Cl- E	
400-241239-2	MW-D5	Total/NA	Water	SM 4500 Cl- E	
400-241239-3	MW-D4	Total/NA	Water	SM 4500 Cl- E	
400-241239-4	MW-D6	Total/NA	Water	SM 4500 Cl- E	
400-241239-5	MW-U1	Total/NA	Water	SM 4500 Cl- E	
400-241239-6	FB-2	Total/NA	Water	SM 4500 Cl- E	
400-241239-7	DUP-08	Total/NA	Water	SM 4500 Cl- E	
400-241239-8	MW-D7	Total/NA	Water	SM 4500 Cl- E	
400-241239-9	MW-D8	Total/NA	Water	SM 4500 Cl- E	
400-241239-10	MW-D9	Total/NA	Water	SM 4500 Cl- E	
400-241239-11	EB-3	Total/NA	Water	SM 4500 Cl- E	
MB 400-636761/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-636761/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-636761/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-241239-1 MS	MW-U2	Total/NA	Water	SM 4500 Cl- E	
400-241239-1 MSD	MW-U2	Total/NA	Water	SM 4500 Cl- E	
400-241239-11 MS	EB-3	Total/NA	Water	SM 4500 Cl- E	
400-241239-11 MSD	EB-3	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 636822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	SM 4500 SO4 E	
400-241239-2	MW-D5	Total/NA	Water	SM 4500 SO4 E	
400-241239-3	MW-D4	Total/NA	Water	SM 4500 SO4 E	
400-241239-4	MW-D6	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 636822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-5	MW-U1	Total/NA	Water	SM 4500 SO4 E	
400-241239-6	FB-2	Total/NA	Water	SM 4500 SO4 E	
400-241239-7	DUP-08	Total/NA	Water	SM 4500 SO4 E	
400-241239-8	MW-D7	Total/NA	Water	SM 4500 SO4 E	
400-241239-9	MW-D8	Total/NA	Water	SM 4500 SO4 E	
400-241239-10	MW-D9	Total/NA	Water	SM 4500 SO4 E	
400-241239-11	EB-3	Total/NA	Water	SM 4500 SO4 E	
MB 400-636822/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-636822/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-636822/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-241239-1 MS	MW-U2	Total/NA	Water	SM 4500 SO4 E	
400-241239-1 MSD	MW-U2	Total/NA	Water	SM 4500 SO4 E	
400-241239-11 MS	EB-3	Total/NA	Water	SM 4500 SO4 E	
400-241239-11 MSD	EB-3	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 635325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	Field Sampling	
400-241239-2	MW-D5	Total/NA	Water	Field Sampling	
400-241239-3	MW-D4	Total/NA	Water	Field Sampling	
400-241239-4	MW-D6	Total/NA	Water	Field Sampling	
400-241239-5	MW-U1	Total/NA	Water	Field Sampling	
400-241239-8	MW-D7	Total/NA	Water	Field Sampling	
400-241239-9	MW-D8	Total/NA	Water	Field Sampling	
400-241239-10	MW-D9	Total/NA	Water	Field Sampling	
400-241239-11	EB-3	Total/NA	Water	Field Sampling	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-636386/1-A ^5
Matrix: Water
Analysis Batch: 636832

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 636386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		08/09/23 13:43	08/11/23 15:02	5
Arsenic	ND		0.0013	0.0012	mg/L		08/09/23 13:43	08/11/23 15:02	5
Barium	ND		0.0025	0.0018	mg/L		08/09/23 13:43	08/11/23 15:02	5
Beryllium	ND		0.0020	0.00092	mg/L		08/09/23 13:43	08/11/23 15:02	5
Boron	ND		0.050	0.029	mg/L		08/09/23 13:43	08/11/23 15:02	5
Cadmium	ND		0.0010	0.00065	mg/L		08/09/23 13:43	08/11/23 15:02	5
Calcium	ND		0.25	0.13	mg/L		08/09/23 13:43	08/11/23 15:02	5
Chromium	ND		0.0025	0.0021	mg/L		08/09/23 13:43	08/11/23 15:02	5
Cobalt	ND		0.0025	0.00056	mg/L		08/09/23 13:43	08/11/23 15:02	5
Lead	ND		0.0013	0.00081	mg/L		08/09/23 13:43	08/11/23 15:02	5
Lithium	ND		0.0025	0.0049	mg/L		08/09/23 13:43	08/11/23 15:02	5
Molybdenum	ND		0.010	0.0013	mg/L		08/09/23 13:43	08/11/23 15:02	5
Selenium	ND		0.0013	0.00082	mg/L		08/09/23 13:43	08/11/23 15:02	5
Thallium	ND		0.00050	0.00046	mg/L		08/09/23 13:43	08/11/23 15:02	5

Lab Sample ID: LCS 400-636386/2-A ^5
Matrix: Water
Analysis Batch: 636832

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 636386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0521		mg/L		104	80 - 120
Arsenic	0.0500	0.0482		mg/L		96	80 - 120
Barium	0.0500	0.0528		mg/L		106	80 - 120
Beryllium	0.0500	0.0500		mg/L		100	80 - 120
Boron	0.100	0.105		mg/L		105	80 - 120
Cadmium	0.0500	0.0561		mg/L		112	80 - 120
Calcium	5.00	5.02		mg/L		100	80 - 120
Chromium	0.0500	0.0525		mg/L		105	80 - 120
Cobalt	0.0500	0.0500		mg/L		100	80 - 120
Lead	0.0500	0.0494		mg/L		99	80 - 120
Lithium	0.0500	0.0498		mg/L		100	80 - 120
Molybdenum	0.0500	0.0504		mg/L		101	80 - 120
Selenium	0.0500	0.0502		mg/L		100	80 - 120
Thallium	0.0100	0.00994		mg/L		99	80 - 120

Lab Sample ID: 400-241178-D-4-C MS ^25
Matrix: Water
Analysis Batch: 636796

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 636386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0509		mg/L		102	75 - 125
Arsenic	ND		0.0500	0.0450		mg/L		90	75 - 125
Barium	1.1		0.0500	1.24	4	mg/L		315	75 - 125
Beryllium	0.0068	J	0.0500	0.0550		mg/L		96	75 - 125
Boron	ND		0.100	ND		mg/L		NC	75 - 125
Cadmium	ND		0.0500	0.0550		mg/L		110	75 - 125
Calcium	35		5.00	42.5	4	mg/L		156	75 - 125
Chromium	ND		0.0500	0.0507		mg/L		101	75 - 125
Cobalt	0.073	F1	0.0500	0.130		mg/L		113	75 - 125

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

Lab Sample ID: 400-241178-D-4-C MS ^25
Matrix: Water
Analysis Batch: 636796

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 636386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.0500	0.0488		mg/L		98	75 - 125
Lithium	ND		0.0500	0.0563		mg/L		113	75 - 125
Molybdenum	ND		0.0500	0.0519		mg/L		104	75 - 125
Selenium	ND		0.0500	0.0486		mg/L		97	75 - 125
Thallium	ND		0.0100	0.0119		mg/L		119	75 - 125

Lab Sample ID: 400-241178-D-4-D MSD ^25
Matrix: Water
Analysis Batch: 636796

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 636386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0530		mg/L		106	75 - 125	4	20
Arsenic	ND		0.0500	0.0489		mg/L		98	75 - 125	8	20
Barium	1.1		0.0500	1.32	4	mg/L		469	75 - 125	6	20
Beryllium	0.0068	J	0.0500	0.0603		mg/L		107	75 - 125	9	20
Boron	ND		0.100	ND		mg/L		NC	75 - 125	NC	20
Cadmium	ND		0.0500	0.0512		mg/L		102	75 - 125	7	20
Calcium	35		5.00	45.6	4	mg/L		219	75 - 125	7	20
Chromium	ND		0.0500	0.0500		mg/L		100	75 - 125	1	20
Cobalt	0.073	F1	0.0500	0.136	F1	mg/L		126	75 - 125	5	20
Lead	ND		0.0500	0.0508		mg/L		102	75 - 125	4	20
Lithium	ND		0.0500	0.0561		mg/L		112	75 - 125	0	20
Molybdenum	ND		0.0500	0.0517		mg/L		103	75 - 125	0	20
Selenium	ND		0.0500	0.0550		mg/L		110	75 - 125	12	20
Thallium	ND		0.0100	0.0125		mg/L		125	75 - 125	6	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-635206/14-A
Matrix: Water
Analysis Batch: 635444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:42	08/01/23 14:07	1

Lab Sample ID: LCS 400-635206/15-A
Matrix: Water
Analysis Batch: 635444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 400-241178-D-1-B MS
Matrix: Water
Analysis Batch: 635444

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 635206

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00201	0.00198		mg/L		98	80 - 120

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

Lab Sample ID: 400-241178-D-1-C MSD
Matrix: Water
Analysis Batch: 635444

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 635206

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00186		mg/L		92	80 - 120	6	20

Lab Sample ID: MB 400-635208/14-A
Matrix: Water
Analysis Batch: 635418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		07/31/23 09:45	07/31/23 15:04	1

Lab Sample ID: LCS 400-635208/15-A
Matrix: Water
Analysis Batch: 635418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00101	0.00111		mg/L		110	80 - 120

Lab Sample ID: 400-241239-3 MS
Matrix: Water
Analysis Batch: 635418

Client Sample ID: MW-D4
Prep Type: Total/NA
Prep Batch: 635208

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	F1	0.00201	0.00146	F1	mg/L		72	80 - 120

Lab Sample ID: 400-241239-3 MSD
Matrix: Water
Analysis Batch: 635418

Client Sample ID: MW-D4
Prep Type: Total/NA
Prep Batch: 635208

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.00201	0.00143	F1	mg/L		71	80 - 120	2	20

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

Lab Sample ID: MB 400-635398/1
Matrix: Water
Analysis Batch: 635398

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			08/01/23 11:48	1

Lab Sample ID: LCS 400-635398/2
Matrix: Water
Analysis Batch: 635398

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	274		mg/L		94	78 - 122

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

Lab Sample ID: 400-241239-10 DU
Matrix: Water
Analysis Batch: 635398

Client Sample ID: MW-D9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	170			170		mg/L				0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-636761/5
Matrix: Water
Analysis Batch: 636761

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			08/11/23 13:01	1

Lab Sample ID: LCS 400-636761/6
Matrix: Water
Analysis Batch: 636761

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	51.1		mg/L		102	90 - 110		

Lab Sample ID: MRL 400-636761/7
Matrix: Water
Analysis Batch: 636761

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	2.09		mg/L		104	50 - 150		

Lab Sample ID: 400-241239-1 MS
Matrix: Water
Analysis Batch: 636761

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		10.0	11.0		mg/L		110	73 - 120		

Lab Sample ID: 400-241239-1 MSD
Matrix: Water
Analysis Batch: 636761

Client Sample ID: MW-U2
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	10.6		mg/L		106	73 - 120	4	8

Lab Sample ID: 400-241239-11 MS
Matrix: Water
Analysis Batch: 636761

Client Sample ID: EB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		10.0	8.78		mg/L		88	73 - 120		

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

Lab Sample ID: 400-241239-11 MSD
Matrix: Water
Analysis Batch: 636761

Client Sample ID: EB-3
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	8.84		mg/L		88	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-636235/10
Matrix: Water
Analysis Batch: 636235

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	0.070	mg/L			08/08/23 11:01	1

Lab Sample ID: LCS 400-636235/12
Matrix: Water
Analysis Batch: 636235

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	5.25		mg/L		105	90 - 110

Lab Sample ID: MRL 400-636235/11
Matrix: Water
Analysis Batch: 636235

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	0.0964	J	mg/L		96	

Lab Sample ID: 400-241239-1 MS
Matrix: Water
Analysis Batch: 636235

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.093	J	0.100	0.196		mg/L		104	75 - 125

Lab Sample ID: 400-241239-1 MSD
Matrix: Water
Analysis Batch: 636235

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.093	J	0.100	0.196		mg/L		104	75 - 125	0	4

Lab Sample ID: 400-241239-2 DU
Matrix: Water
Analysis Batch: 636235

Client Sample ID: MW-D5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-636822/5
Matrix: Water
Analysis Batch: 636822

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			08/12/23 14:42	1

Lab Sample ID: LCS 400-636822/6
Matrix: Water
Analysis Batch: 636822

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	15.3		mg/L		102	90 - 110		

Lab Sample ID: MRL 400-636822/7
Matrix: Water
Analysis Batch: 636822

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	2.95	J	mg/L		59	50 - 150		

Lab Sample ID: 400-241239-1 MS
Matrix: Water
Analysis Batch: 636822

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	19	F1	10.0	20.5	F1	mg/L		19	77 - 128		

Lab Sample ID: 400-241239-1 MSD
Matrix: Water
Analysis Batch: 636822

Client Sample ID: MW-U2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	19	F1	10.0	19.8	F1	mg/L		12	77 - 128	3	5

Lab Sample ID: 400-241239-11 MS
Matrix: Water
Analysis Batch: 636822

Client Sample ID: EB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	ND	F1 F2	10.0	3.67	J F1	mg/L		37	77 - 128		

Lab Sample ID: 400-241239-11 MSD
Matrix: Water
Analysis Batch: 636822

Client Sample ID: EB-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND	F1 F2	10.0	2.95	J F1 F2	mg/L		29	77 - 128	22	5

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

Chain of Custody Record

eurofins | Environment Testing

400-241239 COC

Client Information	Sampler: Patricia Calcano	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-121915-29334.1
Client Contact: Dawit Yifru	Phone: 334-524-9572	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App.III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D	N	D	D	N	N	N	N		
~~AA BB CC~~ MW-02	7/27/23	9:00	G	Water		X	X	X	X	X	X	X	X		pH = 7.50
MW-05	7/27/23	15:05	G	Water		X	X	X	X	X	X	X	X		pH = 6.72
MW-04	7/27/23	17:10	G	Water		X	X	X	X	X	X	X	X		pH = 7.51
~~DD EE FF~~ MW-06	7/27/23	12:25	G	Water		X	X	X	X	X	X	X	X		pH = 7.75
MW-01	7/27/23	10:25	G	Water		X	X	X	X	X	X	X	X		pH = 7.65
				Water											
	JT			Water							J	JT			
				Water											
				Water											JT
				Water											
				Water											

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Tracy	7/28/23 16:00	Geosyntec	Fed Ex	7/28/23	
				7/29/23 800	EES

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C, 4.0°C, 3.4°C JR 11

Ver: 06/08/2021

8/14/2023

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Tracy	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-121915-29334.2
Client Contact: Dawit Yifru	Phone: 513-720-5930	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App.III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D N	D	D	D	N	N	N	N		
FB-2			G	Water		V	V	V	V	V	V	V	V		
DUP-08			G	Water		V	V	V	V	V	V	V	V		
MW-07	7/28/23	09:48	G	Water		V	V	V	V	V	V	V	V		pH = 7.22
				Water											

JT JT

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Tracy	7/28/23 16:00	Geosyntec	Fedex	7/28/23	
				7/29/23 800	EES

Custody Seals Intact: Δ Yes Δ No | Custody Seal No :

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Tracy	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-121915-29334.1
Client Contact: Dawit Yifru	Phone: 513-720-5930	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:
City: Kennesaw	TAT Requested (days): Standard			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App.III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D	N	D	D	N	N	N	N		
~~MW-DUP~~ MW-08	7/26/23	15:00	G	Water		X	X	X	X	X	X	X	X		pH = ~~7.11~~ 7.06
MW-09	7/26/23	14:14	G	Water		X	X	X	X	X	X	X	X		pH = 7.48
EB-3	7/26/23	14:12	G	Water		X	X	X	X	X	X	X	X		pH = 7.48
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

JT JT JT

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Tracy	7/28/23 16:00	Geosyntec	Fedex	7/28/23	
	Date/Time.	Company	Received by	Date/Time	Company
				7/29/23 8:00	EQLS
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No : | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-241239-1
SDG Number:

Login Number: 241239
List Number: 1
Creator: Whitley, Adrian

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.	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	4.5, 4.0, 3.4°C IR11
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

Job ID: 400-241239-1

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	09-01-23
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

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

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
SDG NUMBER RADS

JOB NUMBER

400-241239-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

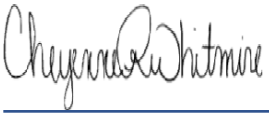
myEOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Job ID: 400-241239-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-241239-2

Receipt
The samples were received on 7/29/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.4°C, 4.0°C and 4.5°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 batch 622531. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U2 (400-241239-1), MW-D5 (400-241239-2), MW-D4 (400-241239-3), MW-D6 (400-241239-4), MW-U1 (400-241239-5), FB-2 (400-241239-6), DUP-08 (400-241239-7), MW-D7 (400-241239-8), MW-D8 (400-241239-9), MW-D9 (400-241239-10), EB-3 (400-241239-11), (LCS 160-622531/2-A), (MB 160-622531/1-A) and (400-241239-C-1-B DU)

Method 9320_Ra228: Radium-228 batch 622533. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U2 (400-241239-1), MW-D5 (400-241239-2), MW-D4 (400-241239-3), MW-D6 (400-241239-4), MW-U1 (400-241239-5), FB-2 (400-241239-6), DUP-08 (400-241239-7), MW-D7 (400-241239-8), MW-D8 (400-241239-9), MW-D9 (400-241239-10), EB-3 (400-241239-11), (LCS 160-622533/2-A), (MB 160-622533/1-A) and (400-241239-C-1-D DU)

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

Method Summary

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

Job ID: 400-241239-2
SDG: RADS

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: 400-241239-2
SDG: RADS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-241239-1	MW-U2	Water	07/27/23 09:00	07/29/23 08:00
400-241239-2	MW-D5	Water	07/27/23 15:05	07/29/23 08:00
400-241239-3	MW-D4	Water	07/27/23 17:10	07/29/23 08:00
400-241239-4	MW-D6	Water	07/27/23 12:25	07/29/23 08:00
400-241239-5	MW-U1	Water	07/27/23 10:25	07/29/23 08:00
400-241239-6	FB-2	Water	07/28/23 12:00	07/29/23 08:00
400-241239-7	DUP-08	Water	07/28/23 12:00	07/29/23 08:00
400-241239-8	MW-D7	Water	07/28/23 09:48	07/29/23 08:00
400-241239-9	MW-D8	Water	07/26/23 15:00	07/29/23 08:00
400-241239-10	MW-D9	Water	07/26/23 14:14	07/29/23 08:00
400-241239-11	EB-3	Water	07/26/23 14:14	07/29/23 08:00

Client Sample ID: MW-U2

Date Collected: 07/27/23 09:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0199	U	0.0641	0.0641	1.00	0.121	pCi/L	08/02/23 09:37	08/24/23 07:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*08/02/23 09:37*	*08/24/23 07:53*	*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	0.126	U	0.310	0.310	1.00	0.550	pCi/L	08/02/23 09:47	08/16/23 13:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:07*	*1*
Y Carrier	*79.6*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:07*	*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	0.146	U	0.317	0.317	5.00	0.550	pCi/L		08/25/23 14:11	1

Client Sample ID: MW-D5

Date Collected: 07/27/23 15:05
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.293**		0.121	0.124	1.00	0.141	pCi/L	08/02/23 09:37	08/24/23 10:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:05*	*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	0.249	U	0.329	0.330	1.00	0.549	pCi/L	08/02/23 09:47	08/16/23 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:09*	*1*
Y Carrier	*81.1*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:09*	*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	0.543	U	0.351	0.353	5.00	0.549	pCi/L		08/25/23 14:11	1

Client Sample ID: MW-D4

Date Collected: 07/27/23 17:10
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0588	U	0.0722	0.0724	1.00	0.119	pCi/L	08/02/23 09:37	08/24/23 10:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:09*	*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	0.336	U	0.324	0.326	1.00	0.516	pCi/L	08/02/23 09:47	08/16/23 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:09*	*1*
Y Carrier	*77.4*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:09*	*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	0.395	U	0.332	0.334	5.00	0.516	pCi/L		08/25/23 14:11	1

Client Sample ID: MW-D6

Date Collected: 07/27/23 12:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-4

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0638	U	0.0640	0.0643	1.00	0.0985	pCi/L	08/02/23 09:37	08/24/23 10:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:05*	*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	0.282	U	0.330	0.331	1.00	0.542	pCi/L	08/02/23 09:47	08/16/23 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:09*	*1*
Y Carrier	*81.1*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:09*	*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	0.346	U	0.336	0.337	5.00	0.542	pCi/L		08/25/23 14:11	1

Client Sample ID: MW-U1

Date Collected: 07/27/23 10:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-5

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0509	U	0.0645	0.0647	1.00	0.107	pCi/L	08/02/23 09:37	08/24/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:06*	*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	-0.240	U	0.259	0.260	1.00	0.556	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	0.267	0.268	5.00	0.556	pCi/L		08/25/23 14:11	1

Client Sample ID: FB-2

Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-6

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0401	U	0.0632	0.0633	1.00	0.109	pCi/L	08/02/23 09:37	08/24/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:06*	*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	0.254	U	0.293	0.294	1.00	0.480	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*81.1*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	0.294	U	0.300	0.301	5.00	0.480	pCi/L		08/25/23 14:11	1

Client Sample ID: DUP-08

Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-7

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0232	U	0.0705	0.0705	1.00	0.151	pCi/L	08/02/23 09:37	08/24/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:06*	*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	-0.167	U	0.270	0.270	1.00	0.555	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	-0.190	U	0.279	0.279	5.00	0.555	pCi/L		08/25/23 14:11	1

Client Sample ID: MW-D7

Date Collected: 07/28/23 09:48
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-8

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.0789	0.0794	1.00	0.112	pCi/L	08/02/23 09:37	08/24/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:06*	*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	0.304	U	0.326	0.327	1.00	0.528	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*81.9*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	0.409	U	0.335	0.337	5.00	0.528	pCi/L		08/25/23 14:11	1

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

Job ID: 400-241239-2
SDG: RADS

Client Sample ID: MW-D8

Date Collected: 07/26/23 15:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-9

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0535	U	0.0761	0.0763	1.00	0.129	pCi/L	08/02/23 09:37	08/24/23 10:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:06*	*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	0.280	0.281	1.00	0.484	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*82.6*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	0.213	U	0.290	0.291	5.00	0.484	pCi/L		08/25/23 14:11	1

Client Sample ID: MW-D9

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-10

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.128**		0.0832	0.0840	1.00	0.110	pCi/L	08/02/23 09:37	08/24/23 10:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:07*	*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	-0.00499	U	0.335	0.335	1.00	0.628	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*82.2*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	0.123	U	0.345	0.345	5.00	0.628	pCi/L		08/25/23 14:11	1

Client Sample ID: EB-3

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-11

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0213	U	0.0692	0.0692	1.00	0.129	pCi/L	08/02/23 09:37	08/24/23 10:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*30 - 110*	*08/02/23 09:37*	*08/24/23 10:07*	*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	**1.01**		0.382	0.393	1.00	0.464	pCi/L	08/02/23 09:47	08/16/23 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*1*
Y Carrier	*83.4*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:10*	*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	**1.03**		0.388	0.399	5.00	0.464	pCi/L		08/25/23 14:11	1

Definitions/Glossary

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

Job ID: 400-241239-2
SDG: RADS

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

Job ID: 400-241239-2
SDG: RADS

Client Sample ID: MW-U2
Date Collected: 07/27/23 09:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625440	SCB	EET SL	08/24/23 07:53
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624444	FLC	EET SL	08/16/23 13:07
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: MW-D5
Date Collected: 07/27/23 15:05
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:05
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:09
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: MW-D4
Date Collected: 07/27/23 17:10
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625440	SCB	EET SL	08/24/23 10:09
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:09
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: MW-D6
Date Collected: 07/27/23 12:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:05
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:09
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Lab Chronicle

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

Job ID: 400-241239-2
SDG: RADS

Client Sample ID: MW-U1
Date Collected: 07/27/23 10:25
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:06
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: FB-2
Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:06
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: DUP-08
Date Collected: 07/28/23 12:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:06
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: MW-D7
Date Collected: 07/28/23 09:48
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:06
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Lab Chronicle

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

Job ID: 400-241239-2
SDG: RADS

Client Sample ID: MW-D8

Date Collected: 07/26/23 15:00
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:06
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: MW-D9

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:07
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Client Sample ID: EB-3

Date Collected: 07/26/23 14:14
Date Received: 07/29/23 08:00

Lab Sample ID: 400-241239-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622531	KAC	EET SL	08/02/23 09:37
Total/NA	Analysis	9315		1	625439	SCB	EET SL	08/24/23 10:07
Total/NA	Prep	PrecSep_0			622533	KAC	EET SL	08/02/23 09:47
Total/NA	Analysis	9320		1	624434	FLC	EET SL	08/16/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/25/23 14:11

Laboratory References:

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

Rad

Prep Batch: 622531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	PrecSep-21	
400-241239-2	MW-D5	Total/NA	Water	PrecSep-21	
400-241239-3	MW-D4	Total/NA	Water	PrecSep-21	
400-241239-4	MW-D6	Total/NA	Water	PrecSep-21	
400-241239-5	MW-U1	Total/NA	Water	PrecSep-21	
400-241239-6	FB-2	Total/NA	Water	PrecSep-21	
400-241239-7	DUP-08	Total/NA	Water	PrecSep-21	
400-241239-8	MW-D7	Total/NA	Water	PrecSep-21	
400-241239-9	MW-D8	Total/NA	Water	PrecSep-21	
400-241239-10	MW-D9	Total/NA	Water	PrecSep-21	
400-241239-11	EB-3	Total/NA	Water	PrecSep-21	
MB 160-622531/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-622531/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-241239-1 DU	MW-U2	Total/NA	Water	PrecSep-21	

Prep Batch: 622533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-241239-1	MW-U2	Total/NA	Water	PrecSep_0	
400-241239-2	MW-D5	Total/NA	Water	PrecSep_0	
400-241239-3	MW-D4	Total/NA	Water	PrecSep_0	
400-241239-4	MW-D6	Total/NA	Water	PrecSep_0	
400-241239-5	MW-U1	Total/NA	Water	PrecSep_0	
400-241239-6	FB-2	Total/NA	Water	PrecSep_0	
400-241239-7	DUP-08	Total/NA	Water	PrecSep_0	
400-241239-8	MW-D7	Total/NA	Water	PrecSep_0	
400-241239-9	MW-D8	Total/NA	Water	PrecSep_0	
400-241239-10	MW-D9	Total/NA	Water	PrecSep_0	
400-241239-11	EB-3	Total/NA	Water	PrecSep_0	
MB 160-622533/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-622533/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-241239-1 DU	MW-U2	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-622531/1-A
Matrix: Water
Analysis Batch: 625440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622531

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01122	U	0.0682	0.0682	1.00	0.130	pCi/L	08/02/23 09:37	08/24/23 07:52	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*08/02/23 09:37*	*08/24/23 07:52*	*1*

Lab Sample ID: LCS 160-622531/2-A
Matrix: Water
Analysis Batch: 625440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622531

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.403		1.00	1.00	0.127	pCi/L	83	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*

Lab Sample ID: 400-241239-1 DU
Matrix: Water
Analysis Batch: 625439

Client Sample ID: MW-U2
Prep Type: Total/NA
Prep Batch: 622531

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0199	U		0.02410	U	0.0739	1.00	0.138	pCi/L			0.03	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*85.8*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-622533/1-A
Matrix: Water
Analysis Batch: 624441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622533

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2551	U	0.329	0.330	1.00	0.549	pCi/L	08/02/23 09:47	08/16/23 13:06	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:06*	*1*
Y Carrier	*80.7*		*30 - 110*	*08/02/23 09:47*	*08/16/23 13:06*	*1*

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

Lab Sample ID: LCS 160-622533/2-A
Matrix: Water
Analysis Batch: 624441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622533

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.95	8.812		1.24	1.00	0.544	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*
Y Carrier	*82.2*		*30 - 110*

Lab Sample ID: 400-241239-1 DU
Matrix: Water
Analysis Batch: 624434

Client Sample ID: MW-U2
Prep Type: Total/NA
Prep Batch: 622533

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.126	U		0.07217	U	0.354	1.00	0.641	pCi/L			0.08	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*85.8*		*30 - 110*
Y Carrier	*78.9*		*30 - 110*

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

Chain of Custody Record

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400-241239 COC

Client Information	Sampler: Patricia Calcano	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-121915-29334.1
Client Contact: Dawit Yifru	Phone: 334-524-9572	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App.III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D	N	D	D	N	N	N	N		
~~AA BB CC~~ MW-02	7/27/23	9:00	G	Water		X	X	X	X	X	X	X	X		pH=7.50
MW-05	7/27/23	15:05	G	Water		X	X	X	X	X	X	X	X		pH=6.72
MW-04	7/27/23	17:10	G	Water		X	X	X	X	X	X	X	X		pH=7.51
~~DD EE FF~~ MW-06	7/27/23	12:25	G	Water		X	X	X	X	X	X	X	X		pH=7.75
MW-01	7/27/23	10:25	G	Water		X	X	X	X	X	X	X	X		pH=7.65
				Water											
	JT			Water							J	JT			
				Water											
				Water											JT
				Water											
				Water											

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Tracy	7/28/23 16:00	Geosyntec	Fed Ex	7/28/23	
				7/29/23 800	EES

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C, 4.0°C, 3.4°C JR 11

Ver: 06/08/2021

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

Chain of Custody Record

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Client Information	Sampler: Jacob Tracy	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-121915-29334.2
Client Contact: Dawit Yifru	Phone: 513-720-5930	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App.III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D N	D	D	D	N	N	N	N		
FB-2			G	Water		V	V	V	V	V	V	V	V		
DUP-08			G	Water		V	V	V	V	V	V	V	V		
MW-07	7/28/23	09:48	G	Water		V	V	V	V	V	V	V	V		pH = 7.22
				Water											

JT JT

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Tracy	7/28/23 16:00	Geosyntec	Fedex	7/28/23	
				7/29/23 800	EES

Custody Seals Intact: Δ Yes Δ No | Custody Seal No :

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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

Chain of Custody Record

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Client Information	Sampler: Jacob Tracy	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-121915-29334.1
Client Contact: Dawit Yifru	Phone: 513-720-5930	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): Standard			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App.III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D	N	D	D	N	N	N	N		
~~MW-08~~ MW-08	7/26/23	15:00	G	Water		X	X	X	X	X	X	X	X		pH = ~~7.07~~ 7.06
MW-09	7/26/23	14:14	G	Water		X	X	X	X	X	X	X	X		pH = 7.48
EB-3	7/26/23	14:12	G	Water		X	X	X	X	X	X	X	X		pH = 7.48
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

JT JT JT

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Tracy	7/28/23 16:00	Geosyntec	Fedex	7/28/23	
	Date/Time.	Company	Received by	Date/Time	Company
				7/29/23 800	EQLS
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-241239-2
SDG Number: RADS

Login Number: 241239
List Number: 1
Creator: Whitley, Adrian

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.	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	4.5, 4.0, 3.4°C IR11
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-241239-2
SDG Number: RADS

Login Number: 241239
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 08/01/23 11:33 AM

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

Accreditation/Certification Summary

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

Job ID: 400-241239-2
SDG: RADS

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
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	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
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	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-23 *
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23 *
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	MO000542021-14	07-31-23 *
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/14/2023 9:22:01 PM

JOB DESCRIPTION

Crisp County Power

JOB NUMBER

400-245390-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

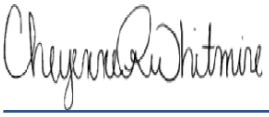
my EOL

Job Notes

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

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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Case Narrative

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

Job ID: 400-245390-1

Job ID: 400-245390-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-245390-1

Receipt
The samples were received on 10/20/2023 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.0º C, 0.0º C, 2.5º C, 3.0º C and 3.0º C.

Metals
Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-647024 and analytical batch 400-647694 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020B: The post digestion spike % recovery associated with batch 400-647694 was outside of control limits. The associated sample is: (180-164200-D-1-A PDS ^5).

Method 6020B: The continuing calibration verification (CCV) associated with batch 400-649368 recovered outside the control limit for Boron. The LCS associated with this CCV was within limits for the affected analytes; therefore, the data have been reported. The associated LCS is impacted: (LCS 400-647024/2-A).

Method 7470A: The method blank for preparation batch 400-647561 and analytical batch 400-647815 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

General Chemistry
Method SM 4500 F C: Due to the high concentration of Fluoride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 400-646886 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 400-648238 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-648703 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-D8-20231017 (400-245390-6). Elevated reporting limits (RLs) are provided.

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

Detection Summary

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

Job ID: 400-245390-1

Client Sample ID: MW-U2-20231017 — Lab Sample ID: 400-245390-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.011	F1	0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.038	J	0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	25		0.25	0.13	mg/L	5		6020B	Total Recoverable
Chromium	0.0063		0.0025	0.0021	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	98		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	17		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.56				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D4-20231017 — Lab Sample ID: 400-245390-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.065		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	47		0.25	0.13	mg/L	5		6020B	Total Recoverable
Chromium	0.011		0.0050	0.0042	mg/L	10		6020B	Total Recoverable
Selenium	0.0017	J	0.0025	0.0016	mg/L	10		6020B	Total Recoverable
Total Dissolved Solids	150		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	0.070	mg/L	1		SM 4500 F C	Total/NA
Field pH	8.23				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D5-20231018 — Lab Sample ID: 400-245390-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Beryllium	0.00028	J	0.0020	0.00028	mg/L	5		6020B	Total Recoverable
Boron	0.065		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020B	Total Recoverable
Chromium	0.026		0.0050	0.0042	mg/L	10		6020B	Total Recoverable
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	7.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D6-20231017 — Lab Sample ID: 400-245390-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0092		0.0025	0.0018	mg/L	5		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-D6-20231017 (Continued) — Lab Sample ID: 400-245390-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.068		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	34		0.25	0.13	mg/L	5		6020B	Total Recoverable
Chromium	0.039		0.0050	0.0042	mg/L	10		6020B	Total Recoverable
Total Dissolved Solids	120		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	0.11		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D7-20231018 — Lab Sample ID: 400-245390-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.081		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.090		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	70		0.50	0.25	mg/L	10		6020B	Total Recoverable
Cobalt	0.00067	J	0.0025	0.00056	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.075	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.81				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D8-20231017 — Lab Sample ID: 400-245390-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.056		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.11		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	83		0.50	0.25	mg/L	10		6020B	Total Recoverable
Molybdenum	0.00046	J	0.010	0.00046	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	260		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	6.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	60		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Field pH	7.60				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D9-20231018 — Lab Sample ID: 400-245390-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.038		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Boron	0.055		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	57		0.50	0.25	mg/L	10		6020B	Total Recoverable
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 400-245390-1

Client Sample ID: MW-D9-20231018 (Continued) — Lab Sample ID: 400-245390-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.085	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.2	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.18				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-09-20231018 — Lab Sample ID: 400-245390-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.0025	0.0018	mg/L	5		6020B	Total Recoverable
Beryllium	0.00034	J	0.0020	0.00028	mg/L	5		6020B	Total Recoverable
Boron	0.063		0.050	0.029	mg/L	5		6020B	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020B	Total Recoverable
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	7.3		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: FB-3-20231018 — Lab Sample ID: 400-245390-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.058		0.050	0.029	mg/L	5		6020B	Total Recoverable
Selenium	0.0011	J	0.0013	0.00082	mg/L	5		6020B	Total Recoverable

Client Sample ID: EB-4-20231018 — Lab Sample ID: 400-245390-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.056		0.050	0.029	mg/L	5		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 400-245390-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
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 PEN
7470A	Preparation, Mercury	SW846	EET PEN

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

Sample Summary

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

Job ID: 400-245390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-245390-1	MW-U2-20231017	Water	10/17/23 12:40	10/20/23 09:31
400-245390-2	MW-D4-20231017	Water	10/17/23 14:50	10/20/23 09:31
400-245390-3	MW-D5-20231018	Water	10/18/23 10:55	10/20/23 09:31
400-245390-4	MW-D6-20231017	Water	10/17/23 17:00	10/20/23 09:31
400-245390-5	MW-D7-20231018	Water	10/18/23 11:35	10/20/23 09:31
400-245390-6	MW-D8-20231017	Water	10/17/23 13:55	10/20/23 09:31
400-245390-7	MW-D9-20231018	Water	10/18/23 14:10	10/20/23 09:31
400-245390-8	DUP-09-20231018	Water	10/18/23 12:00	10/20/23 09:31
400-245390-9	FB-3-20231018	Water	10/18/23 12:00	10/20/23 09:31
400-245390-10	EB-4-20231018	Water	10/18/23 12:00	10/20/23 09:31

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

Job ID: 400-245390-1

Client Sample ID: MW-U2-20231017

Lab Sample ID: 400-245390-1

Date Collected: 10/17/23 12:40

Matrix: Water

Date Received: 10/20/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:31	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:31	5
Barium	**0.011**	**F1**	0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 16:31	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:31	5
Boron	**0.038**	**J**	0.050	0.029	mg/L		10/25/23 07:37	11/07/23 19:13	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:31	5
Calcium	**25**		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 22:31	5
Chromium	**0.0063**		0.0025	0.0021	mg/L		10/25/23 07:37	11/07/23 19:13	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:31	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:31	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:31	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:31	5
Selenium	ND	F1	0.0013	0.00082	mg/L		10/25/23 07:37	11/07/23 19:13	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:31	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:33	10/30/23 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**98**		5.0	5.0	mg/L			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**2.0**		2.0	1.4	mg/L			10/23/23 17:35	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.070	mg/L			10/24/23 11:17	1
Sulfate (SM 4500 SO4 E)	**17**		5.0	1.4	mg/L			11/01/23 12:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.56**				SU			10/17/23 11:40	1

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

Job ID: 400-245390-1

Client Sample ID: MW-D4-20231017

Date Collected: 10/17/23 14:50
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:41	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:41	5
Barium	**0.022**		0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 16:34	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:41	5
Boron	**0.065**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 16:34	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:41	5
Calcium	**47**		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 22:41	5
Chromium	**0.011**		0.0050	0.0042	mg/L		10/25/23 07:37	11/07/23 19:16	10
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:41	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:41	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:41	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:41	5
Selenium	**0.0017**	**J**	0.0025	0.0016	mg/L		10/25/23 07:37	11/07/23 19:16	10
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:41	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:33	10/30/23 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		5.0	5.0	mg/L			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**1.9**	**J**	2.0	1.4	mg/L			10/23/23 17:37	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.070	mg/L			10/24/23 11:21	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/01/23 12:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.23**				SU			10/17/23 13:50	1

Client Sample Results

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

Job ID: 400-245390-1

Client Sample ID: MW-D5-20231018

Date Collected: 10/18/23 10:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:44	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:44	5
Barium	**0.029**		0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 16:37	5
Beryllium	**0.00028**	**J**	0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:44	5
Boron	**0.065**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 16:37	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:44	5
Calcium	**45**		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 22:44	5
Chromium	**0.026**		0.0050	0.0042	mg/L		10/25/23 07:37	11/07/23 19:19	10
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:44	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:44	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:44	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:44	5
Selenium	ND	^+	0.0013	0.00082	mg/L		10/25/23 07:37	11/03/23 16:37	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:44	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**170**		5.0	5.0	mg/L			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**7.0**		2.0	1.4	mg/L			10/23/23 17:37	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			10/24/23 11:23	1
Sulfate (SM 4500 SO4 E)	**2.1**	**J**	5.0	1.4	mg/L			11/01/23 12:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.31**				SU			10/18/23 09:55	1

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

Job ID: 400-245390-1

Client Sample ID: MW-D6-20231017

Date Collected: 10/17/23 17:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:47	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:47	5
Barium	**0.0092**		0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 16:40	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:47	5
Boron	**0.068**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 16:40	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:47	5
Calcium	**34**		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 22:47	5
Chromium	**0.039**		0.0050	0.0042	mg/L		10/25/23 07:37	11/07/23 19:22	10
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:47	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:47	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:47	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:47	5
Selenium	ND		0.0025	0.0016	mg/L		10/25/23 07:37	11/07/23 19:22	10
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:47	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:33	10/30/23 12:53	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			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**4.7**		2.0	1.4	mg/L			10/23/23 17:38	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.070	mg/L			10/24/23 11:25	1
Sulfate (SM 4500 SO4 E)	**2.4**	**J**	5.0	1.4	mg/L			11/01/23 12:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.82**				SU			10/17/23 16:00	1

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

Job ID: 400-245390-1

Client Sample ID: MW-D7-20231018

Lab Sample ID: 400-245390-5

Date Collected: 10/18/23 11:35

Matrix: Water

Date Received: 10/20/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:50	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:50	5
Barium	**0.081**		0.0025	0.0018	mg/L		10/25/23 07:37	10/27/23 22:50	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:50	5
Boron	**0.090**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 16:43	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:50	5
Calcium	**70**		0.50	0.25	mg/L		10/25/23 07:37	11/07/23 19:25	10
Chromium	ND		0.0025	0.0021	mg/L		10/25/23 07:37	11/03/23 16:43	5
Cobalt	**0.00067**	**J**	0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:50	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:50	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:50	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:50	5
Selenium	ND		0.0025	0.0016	mg/L		10/25/23 07:37	11/07/23 19:25	10
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:50	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:24	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			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**4.0**		2.0	1.4	mg/L			10/23/23 17:38	1
Fluoride (SM 4500 F C)	**0.075**	**J**	0.10	0.070	mg/L			10/24/23 11:27	1
Sulfate (SM 4500 SO4 E)	**4.1**	**J**	5.0	1.4	mg/L			11/01/23 12:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.81**				SU			10/18/23 10:35	1

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

Job ID: 400-245390-1

Client Sample ID: MW-D8-20231017

Date Collected: 10/17/23 13:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:53	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:53	5
Barium	**0.056**		0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 16:46	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:53	5
Boron	**0.11**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 16:46	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:53	5
Calcium	**83**		0.50	0.25	mg/L		10/25/23 07:37	11/07/23 19:28	10
Chromium	ND		0.0025	0.0021	mg/L		10/25/23 07:37	11/03/23 16:46	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:53	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:53	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:53	5
Molybdenum	**0.00046**	**J**	0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:53	5
Selenium	ND		0.0025	0.0016	mg/L		10/25/23 07:37	11/07/23 19:28	10
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:53	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:33	10/30/23 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**260**		5.0	5.0	mg/L			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**6.4**		2.0	1.4	mg/L			10/23/23 17:39	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			10/24/23 11:29	1
Sulfate (SM 4500 SO4 E)	**60**		50	14	mg/L			11/03/23 13:46	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.60**				SU			10/17/23 12:55	1

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

Job ID: 400-245390-1

Client Sample ID: MW-D9-20231018

Date Collected: 10/18/23 14:10
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 22:56	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 22:56	5
Barium	**0.038**		0.0025	0.0018	mg/L		10/25/23 07:37	10/27/23 22:56	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 22:56	5
Boron	**0.055**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 17:11	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 22:56	5
Calcium	**57**		0.50	0.25	mg/L		10/25/23 07:37	11/07/23 19:31	10
Chromium	ND	^3+	0.0025	0.0021	mg/L		10/25/23 07:37	10/27/23 22:56	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 22:56	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 22:56	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 22:56	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 22:56	5
Selenium	ND		0.0013	0.00082	mg/L		10/25/23 07:37	11/03/23 17:11	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 22:56	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		5.0	5.0	mg/L			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**2.3**		2.0	1.4	mg/L			10/23/23 17:39	1
Fluoride (SM 4500 F C)	**0.085**	**J**	0.10	0.070	mg/L			10/24/23 11:31	1
Sulfate (SM 4500 SO4 E)	**2.2**	**J**	5.0	1.4	mg/L			11/01/23 12:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.18**				SU			10/18/23 13:10	1

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

Job ID: 400-245390-1

Client Sample ID: DUP-09-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 23:21	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 23:21	5
Barium	**0.029**		0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 17:14	5
Beryllium	**0.00034**	**J**	0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 23:21	5
Boron	**0.063**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 17:14	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 23:21	5
Calcium	**45**		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 23:21	5
Chromium	ND	^3+	0.0025	0.0021	mg/L		10/25/23 07:37	10/27/23 23:21	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 23:21	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 23:21	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 23:21	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 23:21	5
Selenium	ND		0.0013	0.00082	mg/L		10/25/23 07:37	11/03/23 17:14	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 23:21	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**180**		5.0	5.0	mg/L			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	**7.3**		2.0	1.4	mg/L			10/23/23 17:40	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			10/24/23 11:33	1
Sulfate (SM 4500 SO4 E)	**1.9**	**J**	5.0	1.4	mg/L			11/01/23 12:19	1

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

Job ID: 400-245390-1

Client Sample ID: FB-3-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 23:24	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 23:24	5
Barium	ND		0.0025	0.0018	mg/L		10/25/23 07:37	10/27/23 23:24	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 23:24	5
Boron	**0.058**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 17:17	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 23:24	5
Calcium	ND		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 23:24	5
Chromium	ND	^3+	0.0025	0.0021	mg/L		10/25/23 07:37	10/27/23 23:24	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 23:24	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 23:24	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 23:24	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 23:24	5
Selenium	**0.0011**	**J**	0.0013	0.00082	mg/L		10/25/23 07:37	11/03/23 17:17	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 23:24	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:31	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			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			10/23/23 17:40	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			10/24/23 11:35	1
Sulfate (SM 4500 SO4 E)	ND	F2	5.0	1.4	mg/L			11/01/23 12:20	1

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

Job ID: 400-245390-1

Client Sample ID: EB-4-20231018
Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 23:27	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 23:27	5
Barium	ND		0.0025	0.0018	mg/L		10/25/23 07:37	11/03/23 17:20	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 23:27	5
Boron	**0.056**		0.050	0.029	mg/L		10/25/23 07:37	11/03/23 17:20	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 23:27	5
Calcium	ND		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 23:27	5
Chromium	ND		0.0025	0.0021	mg/L		10/25/23 07:37	11/03/23 17:20	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 23:27	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 23:27	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 23:27	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 23:27	5
Selenium	ND		0.0013	0.00082	mg/L		10/25/23 07:37	11/03/23 17:20	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 23:27	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:32	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			10/24/23 06:55	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			10/23/23 17:41	1
Fluoride (SM 4500 F C)	ND		0.10	0.070	mg/L			10/24/23 11:37	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/01/23 12:22	1

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^3-	Reporting Limit Check Standard is outside acceptance limits, low biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
^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
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.
F2	MS/MSD RPD 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.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

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

Job ID: 400-245390-1

Client Sample ID: MW-U2-20231017

Lab Sample ID: 400-245390-1

Date Collected: 10/17/23 12:40

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:31
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 16:31
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	649181	NTH	EET PEN	11/07/23 19:13
Total/NA	Prep	7470A			647563	JR	EET PEN	10/27/23 12:33 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 12:48
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:35
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:17
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:16
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/17/23 11:40

Client Sample ID: MW-D4-20231017

Lab Sample ID: 400-245390-2

Date Collected: 10/17/23 14:50

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:41
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 16:34
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		10	649181	NTH	EET PEN	11/07/23 19:16
Total/NA	Prep	7470A			647563	JR	EET PEN	10/27/23 12:33 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 12:49
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:37
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:21
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:16
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/17/23 13:50

Client Sample ID: MW-D5-20231018

Lab Sample ID: 400-245390-3

Date Collected: 10/18/23 10:55

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:44
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 16:37
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		10	649181	NTH	EET PEN	11/07/23 19:19

Lab Chronicle

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

Job ID: 400-245390-1

Client Sample ID: MW-D5-20231018

Date Collected: 10/18/23 10:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			647561	JR	EET PEN	10/27/23 12:18 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 13:23
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:37
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:23
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:17
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/18/23 09:55

Client Sample ID: MW-D6-20231017

Date Collected: 10/17/23 17:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:47
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 16:40
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		10	649181	NTH	EET PEN	11/07/23 19:22
Total/NA	Prep	7470A			647563	JR	EET PEN	10/27/23 12:33 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 12:53
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:38
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:25
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:17
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/17/23 16:00

Client Sample ID: MW-D7-20231018

Date Collected: 10/18/23 11:35
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:50
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 16:43
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		10	649181	NTH	EET PEN	11/07/23 19:25
Total/NA	Prep	7470A			647561	JR	EET PEN	10/27/23 12:18 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 13:24
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:38
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:27

Lab Chronicle

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

Job ID: 400-245390-1

Client Sample ID: MW-D7-20231018

Lab Sample ID: 400-245390-5

Date Collected: 10/18/23 11:35

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:18
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/18/23 10:35

Client Sample ID: MW-D8-20231017

Lab Sample ID: 400-245390-6

Date Collected: 10/17/23 13:55

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:53
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 16:46
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		10	649181	NTH	EET PEN	11/07/23 19:28
Total/NA	Prep	7470A			647563	JR	EET PEN	10/27/23 12:33 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 12:54
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:39
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:29
Total/NA	Analysis	SM 4500 SO4 E		10	648703	CJK	EET PEN	11/03/23 13:46
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/17/23 12:55

Client Sample ID: MW-D9-20231018

Lab Sample ID: 400-245390-7

Date Collected: 10/18/23 14:10

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 22:56
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 17:11
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		10	649181	NTH	EET PEN	11/07/23 19:31
Total/NA	Prep	7470A			647561	JR	EET PEN	10/27/23 12:18 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 13:26
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:39
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:31
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:18
Total/NA	Analysis	Field Sampling		1	646846	C1H	EET PEN	10/18/23 13:10

Client Sample ID: DUP-09-20231018

Lab Sample ID: 400-245390-8

Date Collected: 10/18/23 12:00

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 23:21
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 17:14
Total/NA	Prep	7470A			647561	JR	EET PEN	10/27/23 12:18 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 13:27
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:40
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:33
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:19

Client Sample ID: FB-3-20231018

Lab Sample ID: 400-245390-9

Date Collected: 10/18/23 12:00

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 23:24
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 17:17
Total/NA	Prep	7470A			647561	JR	EET PEN	10/27/23 12:18 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 13:31
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:40
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:20

Client Sample ID: EB-4-20231018

Lab Sample ID: 400-245390-10

Date Collected: 10/18/23 12:00

Matrix: Water

Date Received: 10/20/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	647694	NTH	EET PEN	10/27/23 23:27
Total Recoverable	Prep	3005A			647024	MS	EET PEN	10/25/23 07:37 - 10/25/23 10:30 [1]
Total Recoverable	Analysis	6020B		5	648798	NTH	EET PEN	11/03/23 17:20
Total/NA	Prep	7470A			647561	JR	EET PEN	10/27/23 12:18 - 10/27/23 15:18 [1]
Total/NA	Analysis	7470A		1	647815	JR	EET PEN	10/30/23 13:32
Total/NA	Analysis	SM 2540C		1	646852	HA	EET PEN	10/24/23 06:55
Total/NA	Analysis	SM 4500 Cl- E		1	646911	CJK	EET PEN	10/23/23 17:41
Total/NA	Analysis	SM 4500 F C		1	646886	JP	EET PEN	10/24/23 11:37
Total/NA	Analysis	SM 4500 SO4 E		1	648238	CJK	EET PEN	11/01/23 12:22

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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

Job ID: 400-245390-1

Laboratory References:

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

Metals

Prep Batch: 647024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total Recoverable	Water	3005A	
400-245390-2	MW-D4-20231017	Total Recoverable	Water	3005A	
400-245390-3	MW-D5-20231018	Total Recoverable	Water	3005A	
400-245390-4	MW-D6-20231017	Total Recoverable	Water	3005A	
400-245390-5	MW-D7-20231018	Total Recoverable	Water	3005A	
400-245390-6	MW-D8-20231017	Total Recoverable	Water	3005A	
400-245390-7	MW-D9-20231018	Total Recoverable	Water	3005A	
400-245390-8	DUP-09-20231018	Total Recoverable	Water	3005A	
400-245390-9	FB-3-20231018	Total Recoverable	Water	3005A	
400-245390-10	EB-4-20231018	Total Recoverable	Water	3005A	
MB 400-647024/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-647024/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 400-647024/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-245390-1 MS	MW-U2-20231017	Total Recoverable	Water	3005A	
400-245390-1 MSD	MW-U2-20231017	Total Recoverable	Water	3005A	

Prep Batch: 647561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-3	MW-D5-20231018	Total/NA	Water	7470A	
400-245390-5	MW-D7-20231018	Total/NA	Water	7470A	
400-245390-7	MW-D9-20231018	Total/NA	Water	7470A	
400-245390-8	DUP-09-20231018	Total/NA	Water	7470A	
400-245390-9	FB-3-20231018	Total/NA	Water	7470A	
400-245390-10	EB-4-20231018	Total/NA	Water	7470A	
MB 400-647561/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-647561/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-245470-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-245470-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 647563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	7470A	
400-245390-2	MW-D4-20231017	Total/NA	Water	7470A	
400-245390-4	MW-D6-20231017	Total/NA	Water	7470A	
400-245390-6	MW-D8-20231017	Total/NA	Water	7470A	
MB 400-647563/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-647563/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-245346-C-2-B MS	Matrix Spike	Total/NA	Water	7470A	
400-245346-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 647694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total Recoverable	Water	6020B	647024
400-245390-2	MW-D4-20231017	Total Recoverable	Water	6020B	647024
400-245390-3	MW-D5-20231018	Total Recoverable	Water	6020B	647024
400-245390-4	MW-D6-20231017	Total Recoverable	Water	6020B	647024
400-245390-5	MW-D7-20231018	Total Recoverable	Water	6020B	647024
400-245390-6	MW-D8-20231017	Total Recoverable	Water	6020B	647024
400-245390-7	MW-D9-20231018	Total Recoverable	Water	6020B	647024
400-245390-8	DUP-09-20231018	Total Recoverable	Water	6020B	647024
400-245390-9	FB-3-20231018	Total Recoverable	Water	6020B	647024

Metals (Continued)

Analysis Batch: 647694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-10	EB-4-20231018	Total Recoverable	Water	6020B	647024
MB 400-647024/1-A ^5	Method Blank	Total Recoverable	Water	6020B	647024
LCS 400-647024/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	647024
400-245390-1 MS	MW-U2-20231017	Total Recoverable	Water	6020B	647024
400-245390-1 MSD	MW-U2-20231017	Total Recoverable	Water	6020B	647024

Analysis Batch: 647815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	7470A	647563
400-245390-2	MW-D4-20231017	Total/NA	Water	7470A	647563
400-245390-3	MW-D5-20231018	Total/NA	Water	7470A	647561
400-245390-4	MW-D6-20231017	Total/NA	Water	7470A	647563
400-245390-5	MW-D7-20231018	Total/NA	Water	7470A	647561
400-245390-6	MW-D8-20231017	Total/NA	Water	7470A	647563
400-245390-7	MW-D9-20231018	Total/NA	Water	7470A	647561
400-245390-8	DUP-09-20231018	Total/NA	Water	7470A	647561
400-245390-9	FB-3-20231018	Total/NA	Water	7470A	647561
400-245390-10	EB-4-20231018	Total/NA	Water	7470A	647561
MB 400-647561/14-A	Method Blank	Total/NA	Water	7470A	647561
MB 400-647563/14-A	Method Blank	Total/NA	Water	7470A	647563
LCS 400-647561/15-A	Lab Control Sample	Total/NA	Water	7470A	647561
LCS 400-647563/15-A	Lab Control Sample	Total/NA	Water	7470A	647563
400-245346-C-2-B MS	Matrix Spike	Total/NA	Water	7470A	647563
400-245346-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	647563
400-245470-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	647561
400-245470-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	647561

Analysis Batch: 648798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total Recoverable	Water	6020B	647024
400-245390-2	MW-D4-20231017	Total Recoverable	Water	6020B	647024
400-245390-3	MW-D5-20231018	Total Recoverable	Water	6020B	647024
400-245390-4	MW-D6-20231017	Total Recoverable	Water	6020B	647024
400-245390-5	MW-D7-20231018	Total Recoverable	Water	6020B	647024
400-245390-6	MW-D8-20231017	Total Recoverable	Water	6020B	647024
400-245390-7	MW-D9-20231018	Total Recoverable	Water	6020B	647024
400-245390-8	DUP-09-20231018	Total Recoverable	Water	6020B	647024
400-245390-9	FB-3-20231018	Total Recoverable	Water	6020B	647024
400-245390-10	EB-4-20231018	Total Recoverable	Water	6020B	647024
MB 400-647024/1-A ^5	Method Blank	Total Recoverable	Water	6020B	647024
LCS 400-647024/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	647024

Analysis Batch: 649181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total Recoverable	Water	6020B	647024
400-245390-2	MW-D4-20231017	Total Recoverable	Water	6020B	647024
400-245390-3	MW-D5-20231018	Total Recoverable	Water	6020B	647024
400-245390-4	MW-D6-20231017	Total Recoverable	Water	6020B	647024
400-245390-5	MW-D7-20231018	Total Recoverable	Water	6020B	647024
400-245390-6	MW-D8-20231017	Total Recoverable	Water	6020B	647024
400-245390-7	MW-D9-20231018	Total Recoverable	Water	6020B	647024

Metals (Continued)

Analysis Batch: 649181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-647024/1-A ^5	Method Blank	Total Recoverable	Water	6020B	647024

Analysis Batch: 649368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-647024/2-A	Lab Control Sample	Total Recoverable	Water	6020B	647024

General Chemistry

Analysis Batch: 646852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	SM 2540C	
400-245390-2	MW-D4-20231017	Total/NA	Water	SM 2540C	
400-245390-3	MW-D5-20231018	Total/NA	Water	SM 2540C	
400-245390-4	MW-D6-20231017	Total/NA	Water	SM 2540C	
400-245390-5	MW-D7-20231018	Total/NA	Water	SM 2540C	
400-245390-6	MW-D8-20231017	Total/NA	Water	SM 2540C	
400-245390-7	MW-D9-20231018	Total/NA	Water	SM 2540C	
400-245390-8	DUP-09-20231018	Total/NA	Water	SM 2540C	
400-245390-9	FB-3-20231018	Total/NA	Water	SM 2540C	
400-245390-10	EB-4-20231018	Total/NA	Water	SM 2540C	
MB 400-646852/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-646852/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-245390-1 DU	MW-U2-20231017	Total/NA	Water	SM 2540C	

Analysis Batch: 646886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	SM 4500 F C	
400-245390-2	MW-D4-20231017	Total/NA	Water	SM 4500 F C	
400-245390-3	MW-D5-20231018	Total/NA	Water	SM 4500 F C	
400-245390-4	MW-D6-20231017	Total/NA	Water	SM 4500 F C	
400-245390-5	MW-D7-20231018	Total/NA	Water	SM 4500 F C	
400-245390-6	MW-D8-20231017	Total/NA	Water	SM 4500 F C	
400-245390-7	MW-D9-20231018	Total/NA	Water	SM 4500 F C	
400-245390-8	DUP-09-20231018	Total/NA	Water	SM 4500 F C	
400-245390-9	FB-3-20231018	Total/NA	Water	SM 4500 F C	
400-245390-10	EB-4-20231018	Total/NA	Water	SM 4500 F C	
MB 400-646886/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-646886/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-646886/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
560-113077-I-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
560-113077-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-245390-1 DU	MW-U2-20231017	Total/NA	Water	SM 4500 F C	

Analysis Batch: 646911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	SM 4500 Cl- E	
400-245390-2	MW-D4-20231017	Total/NA	Water	SM 4500 Cl- E	
400-245390-3	MW-D5-20231018	Total/NA	Water	SM 4500 Cl- E	
400-245390-4	MW-D6-20231017	Total/NA	Water	SM 4500 Cl- E	
400-245390-5	MW-D7-20231018	Total/NA	Water	SM 4500 Cl- E	
400-245390-6	MW-D8-20231017	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 646911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-7	MW-D9-20231018	Total/NA	Water	SM 4500 Cl- E	
400-245390-8	DUP-09-20231018	Total/NA	Water	SM 4500 Cl- E	
400-245390-9	FB-3-20231018	Total/NA	Water	SM 4500 Cl- E	
400-245390-10	EB-4-20231018	Total/NA	Water	SM 4500 Cl- E	
MB 400-646911/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-646911/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-646911/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-245377-I-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-245377-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-245390-1 MS	MW-U2-20231017	Total/NA	Water	SM 4500 Cl- E	
400-245390-1 MSD	MW-U2-20231017	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 648238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	SM 4500 SO4 E	
400-245390-2	MW-D4-20231017	Total/NA	Water	SM 4500 SO4 E	
400-245390-3	MW-D5-20231018	Total/NA	Water	SM 4500 SO4 E	
400-245390-4	MW-D6-20231017	Total/NA	Water	SM 4500 SO4 E	
400-245390-5	MW-D7-20231018	Total/NA	Water	SM 4500 SO4 E	
400-245390-7	MW-D9-20231018	Total/NA	Water	SM 4500 SO4 E	
400-245390-8	DUP-09-20231018	Total/NA	Water	SM 4500 SO4 E	
400-245390-9	FB-3-20231018	Total/NA	Water	SM 4500 SO4 E	
400-245390-10	EB-4-20231018	Total/NA	Water	SM 4500 SO4 E	
MB 400-648238/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-648238/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-648238/54	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-245390-9 MS	FB-3-20231018	Total/NA	Water	SM 4500 SO4 E	
400-245390-9 MSD	FB-3-20231018	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 648703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-6	MW-D8-20231017	Total/NA	Water	SM 4500 SO4 E	
MB 400-648703/36	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 400-648703/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-648703/37	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 400-648703/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-648703/82	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
240-194161-L-2 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
240-194161-L-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 646846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	Field Sampling	
400-245390-2	MW-D4-20231017	Total/NA	Water	Field Sampling	
400-245390-3	MW-D5-20231018	Total/NA	Water	Field Sampling	
400-245390-4	MW-D6-20231017	Total/NA	Water	Field Sampling	
400-245390-5	MW-D7-20231018	Total/NA	Water	Field Sampling	
400-245390-6	MW-D8-20231017	Total/NA	Water	Field Sampling	
400-245390-7	MW-D9-20231018	Total/NA	Water	Field Sampling	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-647024/1-A ^5
Matrix: Water
Analysis Batch: 647694

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00050	mg/L		10/25/23 07:37	10/27/23 21:36	5
Arsenic	ND		0.0013	0.0012	mg/L		10/25/23 07:37	10/27/23 21:36	5
Barium	ND		0.0025	0.0018	mg/L		10/25/23 07:37	10/27/23 21:36	5
Beryllium	ND		0.0020	0.00028	mg/L		10/25/23 07:37	10/27/23 21:36	5
Cadmium	ND		0.0010	0.00065	mg/L		10/25/23 07:37	10/27/23 21:36	5
Calcium	ND		0.25	0.13	mg/L		10/25/23 07:37	10/27/23 21:36	5
Chromium	ND	^3+	0.0025	0.0021	mg/L		10/25/23 07:37	10/27/23 21:36	5
Cobalt	ND		0.0025	0.00056	mg/L		10/25/23 07:37	10/27/23 21:36	5
Lead	ND		0.0013	0.00081	mg/L		10/25/23 07:37	10/27/23 21:36	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	10/27/23 21:36	5
Molybdenum	ND		0.010	0.00046	mg/L		10/25/23 07:37	10/27/23 21:36	5
Thallium	ND		0.00050	0.00011	mg/L		10/25/23 07:37	10/27/23 21:36	5

Lab Sample ID: MB 400-647024/1-A ^5
Matrix: Water
Analysis Batch: 648798

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND	^+	0.0013	0.00082	mg/L		10/25/23 07:37	11/03/23 16:24	5

Lab Sample ID: MB 400-647024/1-A ^5
Matrix: Water
Analysis Batch: 649181

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.029	mg/L		10/25/23 07:37	11/07/23 15:18	5

Lab Sample ID: LCS 400-647024/2-A
Matrix: Water
Analysis Batch: 649368

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.0500	0.0486		mg/L		97	80 - 120
Boron	0.100	0.109	^-	mg/L		109	80 - 120
Selenium	0.0500	0.0566		mg/L		113	80 - 120

Lab Sample ID: LCS 400-647024/2-A ^5
Matrix: Water
Analysis Batch: 647694

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0510		mg/L		102	80 - 120
Arsenic	0.0500	0.0497		mg/L		99	80 - 120
Beryllium	0.0500	0.0468		mg/L		94	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Calcium	5.00	4.82		mg/L		96	80 - 120
Cobalt	0.0500	0.0538		mg/L		108	80 - 120
Lead	0.0500	0.0503		mg/L		101	80 - 120
Lithium	0.0500	0.0496		mg/L		99	80 - 120

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

Lab Sample ID: LCS 400-647024/2-A ^5
Matrix: Water
Analysis Batch: 647694

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.0500	0.0506		mg/L		101	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: LCS 400-647024/2-A ^5
Matrix: Water
Analysis Batch: 648798

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.0500	0.0517		mg/L		103	80 - 120

Lab Sample ID: 400-245390-1 MS
Matrix: Water
Analysis Batch: 647694

Client Sample ID: MW-U2-20231017
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0582		mg/L		116	75 - 125
Arsenic	ND		0.0500	0.0469		mg/L		94	75 - 125
Barium	0.012	F1 *+	0.0500	0.0819	F1	mg/L		139	75 - 125
Beryllium	ND		0.0500	0.0514		mg/L		103	75 - 125
Boron	0.80	^5- ^6+ ^3- ^1+ ^- B ^+ ^2 *+	0.100	0.687	^5- ^6+ ^3- 4 ^1+ ^- ^+	mg/L		-112	75 - 125
Cadmium	ND		0.0500	0.0524		mg/L		105	75 - 125
Calcium	25		5.00	30.0	4	mg/L		92	75 - 125
Chromium	0.0025	^3+ ^2 *+	0.0500	0.0517	^3+	mg/L		98	75 - 125
Cobalt	ND		0.0500	0.0528		mg/L		106	75 - 125
Lead	ND		0.0500	0.0513	^5+	mg/L		103	75 - 125
Lithium	ND		0.0500	0.0517		mg/L		103	75 - 125
Molybdenum	ND		0.0500	0.0517		mg/L		103	75 - 125
Selenium	0.0031	^3- F1 ^1+ B *+ ^2	0.0500	0.0580	^3- ^1+	mg/L		110	75 - 125
Thallium	ND		0.0100	0.0103		mg/L		103	75 - 125

Lab Sample ID: 400-245390-1 MSD
Matrix: Water
Analysis Batch: 647694

Client Sample ID: MW-U2-20231017
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0574		mg/L		115	75 - 125	1	20
Arsenic	ND		0.0500	0.0550		mg/L		110	75 - 125	16	20
Barium	0.012	F1 *+	0.0500	0.0874	F1	mg/L		150	75 - 125	7	20
Beryllium	ND		0.0500	0.0483		mg/L		97	75 - 125	6	20
Boron	0.80	^5- ^6+ ^3- ^1+ ^- B ^+ ^2 *+	0.100	0.828	^5- ^6+ ^3- 4 ^1+ ^- ^+	mg/L		29	75 - 125	19	20
Cadmium	ND		0.0500	0.0514		mg/L		103	75 - 125	2	20
Calcium	25		5.00	31.2	4	mg/L		116	75 - 125	4	20
Chromium	0.0025	^3+ ^2 *+	0.0500	0.0536	^3+	mg/L		102	75 - 125	4	20
Cobalt	ND		0.0500	0.0523		mg/L		105	75 - 125	1	20
Lead	ND		0.0500	0.0518	^5+	mg/L		104	75 - 125	1	20

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

Lab Sample ID: 400-245390-1 MSD
Matrix: Water
Analysis Batch: 647694

Client Sample ID: MW-U2-20231017
Prep Type: Total Recoverable
Prep Batch: 647024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	ND		0.0500	0.0540		mg/L		108	75 - 125	4	20
Molybdenum	ND		0.0500	0.0559		mg/L		112	75 - 125	8	20
Selenium	0.0031	^3- F1 ^1+ B *+ ^2	0.0500	0.0688	^3- F1 ^1+	mg/L		131	75 - 125	17	20
Thallium	ND		0.0100	0.0105		mg/L		105	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-647561/14-A
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000150	J	0.00020	0.00015	mg/L		10/27/23 12:18	10/30/23 13:01	1

Lab Sample ID: LCS 400-647561/15-A
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00112		mg/L		112	80 - 120

Lab Sample ID: 400-245470-A-1-B MS
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 647561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00037	B	0.00200	0.00208		mg/L		86	80 - 120

Lab Sample ID: 400-245470-A-1-C MSD
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 647561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00037	B	0.00200	0.00197		mg/L		80	80 - 120	5	20

Lab Sample ID: MB 400-647563/14-A
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		10/27/23 12:33	10/30/23 12:18	1

Lab Sample ID: LCS 400-647563/15-A
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.000970		mg/L		97	80 - 120

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

Lab Sample ID: 400-245346-C-2-B MS
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 647563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00200	0.00193		mg/L		97	80 - 120

Lab Sample ID: 400-245346-C-2-C MSD
Matrix: Water
Analysis Batch: 647815

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 647563

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00200	0.00200		mg/L		100	80 - 120	4	20

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

Lab Sample ID: MB 400-646852/1
Matrix: Water
Analysis Batch: 646852

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			10/24/23 06:55	1

Lab Sample ID: LCS 400-646852/2
Matrix: Water
Analysis Batch: 646852

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	272		mg/L		93	78 - 122

Lab Sample ID: 400-245390-1 DU
Matrix: Water
Analysis Batch: 646852

Client Sample ID: MW-U2-20231017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	98		98.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-646911/13
Matrix: Water
Analysis Batch: 646911

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			10/23/23 17:33	1

Lab Sample ID: LCS 400-646911/14
Matrix: Water
Analysis Batch: 646911

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	50.6		mg/L		101	90 - 110

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

Lab Sample ID: MRL 400-646911/15
Matrix: Water
Analysis Batch: 646911

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	2.01		mg/L		100	50 - 150		

Lab Sample ID: 400-245377-I-1 MS
Matrix: Water
Analysis Batch: 646911

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	370		10.0	380	4	mg/L		85	73 - 120		

Lab Sample ID: 400-245377-I-1 MSD
Matrix: Water
Analysis Batch: 646911

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	370		10.0	380	4	mg/L		89	73 - 120	0	8

Lab Sample ID: 400-245390-1 MS
Matrix: Water
Analysis Batch: 646911

Client Sample ID: MW-U2-20231017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2.0		10.0	10.9		mg/L		89	73 - 120		

Lab Sample ID: 400-245390-1 MSD
Matrix: Water
Analysis Batch: 646911

Client Sample ID: MW-U2-20231017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.0		10.0	10.9		mg/L		88	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-646886/9
Matrix: Water
Analysis Batch: 646886

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	0.070	mg/L			10/24/23 10:41	1

Lab Sample ID: LCS 400-646886/11
Matrix: Water
Analysis Batch: 646886

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	4.98		mg/L		100	90 - 110		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MRL 400-646886/10
Matrix: Water
Analysis Batch: 646886

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	0.0961	J	mg/L		96	50 - 150		

Lab Sample ID: 560-113077-I-1 MS
Matrix: Water
Analysis Batch: 646886

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	5.8		0.100	5.85	4	mg/L		0	75 - 125		

Lab Sample ID: 560-113077-I-1 MSD
Matrix: Water
Analysis Batch: 646886

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	5.8		0.100	6.09	4	mg/L		240	75 - 125	4	4

Lab Sample ID: 400-245390-1 DU
Matrix: Water
Analysis Batch: 646886

Client Sample ID: MW-U2-20231017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.12			0.127		mg/L				4	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-648238/16
Matrix: Water
Analysis Batch: 648238

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			11/01/23 12:12	1

Lab Sample ID: LCS 400-648238/17
Matrix: Water
Analysis Batch: 648238

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	15.2		mg/L		101	90 - 110		

Lab Sample ID: MRL 400-648238/54
Matrix: Water
Analysis Batch: 648238

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	4.22	J	mg/L		84	50 - 150		

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

Lab Sample ID: 400-245390-9 MS
Matrix: Water
Analysis Batch: 648238

Client Sample ID: FB-3-20231018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND	F2	10.0	9.29		mg/L		93	77 - 128

Lab Sample ID: 400-245390-9 MSD
Matrix: Water
Analysis Batch: 648238

Client Sample ID: FB-3-20231018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND	F2	10.0	7.97	F2	mg/L		80	77 - 128	15	5

Lab Sample ID: MB 400-648703/36
Matrix: Water
Analysis Batch: 648703

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			11/03/23 12:45	1

Lab Sample ID: MB 400-648703/5
Matrix: Water
Analysis Batch: 648703

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			11/03/23 12:20	1

Lab Sample ID: LCS 400-648703/37
Matrix: Water
Analysis Batch: 648703

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	15.7		mg/L		105	90 - 110

Lab Sample ID: LCS 400-648703/6
Matrix: Water
Analysis Batch: 648703

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	15.2		mg/L		101	90 - 110

Lab Sample ID: MRL 400-648703/82
Matrix: Water
Analysis Batch: 648703

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	5.72		mg/L		114	50 - 150

Lab Sample ID: 240-194161-L-2 MS
Matrix: Water
Analysis Batch: 648703

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	310		10.0	310	4	mg/L		4	77 - 128

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

Job ID: 400-245390-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: 240-194161-L-2 MSD
Matrix: Water
Analysis Batch: 648703

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	310		10.0	310	4	mg/L		11	77 - 128	0	5

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

Chain of Custody Record

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Client Information	Sampler: Dalton Kegley	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s): 400-245390 COC	COC No: 400-123786-29334 1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code			D	N	D	D	N	N	N	N		
MW-02-20231017	10/17/23	12:40	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.56
MW-04-20231017	10/17/23	14:50	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.23
MW-05-20231018	10/18/23	10:55	G	Water	N	X	X	X	X	X	X	X	X		pH = 7.31
MW-06-20231017	10/17/23	17:00	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.82
MW-07-20231018	10/18/23	11:35	G	Water	N	X	X	X	X	X	X	X	X		pH = 7.81
MW-08-20231017	10/17/23	13:55	G	Water	N	X	X	X	X	X	X	X	X		pH = 7.60
MW-09-20231018	10/18/23	14:10	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.18
DUP-09-20231018	10/18/23	12:00	G	Water	N	X	X	X	X	X	X	X	X		DK
FB-3-20231018	10/18/23	12:00	G	Water	N	X	X	X	X	X	X	X	X		
EB-4-20231018	10/18/23	12:00	G	Water	N	X	X	X	X	X	X	X	X		
			DK	Water										DK	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				10/20/23 931	EECS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.5c, 0.0C, 3.0°C, 0.0C, 3.0 °C IR10

Ver: 06/08/2021

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11/14/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-245390-1
SDG Number:

Login Number: 245390
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	2.5°C, 0.0°C, 3.0°C, 0.0°C, 3.0°C IR-10
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

Job ID: 400-245390-1

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	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
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	P330-21-00056	05-17-24
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

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

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
RADS

JOB NUMBER

400-245390-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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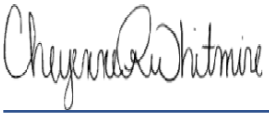
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Table of Contents

Method Summary

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

Job ID: 400-245390-2
SDG: RADS

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: 400-245390-2
SDG: RADS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-245390-1	MW-U2-20231017	Water	10/17/23 12:40	10/20/23 09:31
400-245390-2	MW-D4-20231017	Water	10/17/23 14:50	10/20/23 09:31
400-245390-3	MW-D5-20231018	Water	10/18/23 10:55	10/20/23 09:31
400-245390-4	MW-D6-20231017	Water	10/17/23 17:00	10/20/23 09:31
400-245390-5	MW-D7-20231018	Water	10/18/23 11:35	10/20/23 09:31
400-245390-6	MW-D8-20231017	Water	10/17/23 13:55	10/20/23 09:31
400-245390-7	MW-D9-20231018	Water	10/18/23 14:10	10/20/23 09:31
400-245390-8	DUP-09-20231018	Water	10/18/23 12:00	10/20/23 09:31
400-245390-9	FB-3-20231018	Water	10/18/23 12:00	10/20/23 09:31
400-245390-10	EB-4-20231018	Water	10/18/23 12:00	10/20/23 09:31

Client Sample ID: MW-U2-20231017

Date Collected: 10/17/23 12:40
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0220	U	0.0721	0.0722	1.00	0.135	pCi/L	10/27/23 10:31	11/28/23 07:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.6*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:26*	*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	**1.07**		0.482	0.492	1.00	0.654	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.6*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	**1.09**		0.487	0.497	5.00	0.654	pCi/L		11/28/23 17:38	1

Client Sample ID: MW-D4-20231017

Date Collected: 10/17/23 14:50
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0314	U	0.0531	0.0531	1.00	0.0935	pCi/L	10/27/23 10:31	11/28/23 07:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:27*	*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	**1.26**		0.461	0.476	1.00	0.576	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*78.9*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	**1.29**		0.464	0.479	5.00	0.576	pCi/L		11/28/23 17:38	1

Client Sample ID: MW-D5-20231018

Date Collected: 10/18/23 10:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-3

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121		0.0722	0.0730	1.00	0.0932	pCi/L	10/27/23 10:31	11/28/23 07:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:27*	*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	0.641		0.381	0.385	1.00	0.559	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*82.2*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	0.761		0.388	0.392	5.00	0.559	pCi/L		11/28/23 17:38	1

Client Sample ID: MW-D6-20231017

Date Collected: 10/17/23 17:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-4

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0311	U	0.0530	0.0531	1.00	0.0931	pCi/L	10/27/23 10:31	11/28/23 07:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.0*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:27*	*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	**1.40**		0.416	0.436	1.00	0.477	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.0*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*84.9*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	**1.43**		0.419	0.439	5.00	0.477	pCi/L		11/28/23 17:38	1

Client Sample ID: MW-D7-20231018

Date Collected: 10/18/23 11:35
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-5

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121		0.0734	0.0742	1.00	0.0951	pCi/L	10/27/23 10:31	11/28/23 07:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:27*	*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	0.569		0.321	0.326	1.00	0.448	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*80.7*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	0.689		0.329	0.334	5.00	0.448	pCi/L		11/28/23 17:38	1

Client Sample ID: MW-D8-20231017

Date Collected: 10/17/23 13:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-6

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0831	U	0.0680	0.0684	1.00	0.100	pCi/L	10/27/23 10:31	11/28/23 07:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:27*	*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	**0.690**		0.362	0.368	1.00	0.511	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*84.1*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	**0.773**		0.368	0.374	5.00	0.511	pCi/L		11/28/23 17:38	1

Client Sample ID: MW-D9-20231018

Date Collected: 10/18/23 14:10
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-7

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0695	U	0.0624	0.0627	1.00	0.0940	pCi/L	10/27/23 10:31	11/28/23 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:28*	*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	**0.545**		0.350	0.354	1.00	0.516	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*80.0*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	**0.614**		0.356	0.360	5.00	0.516	pCi/L		11/28/23 17:38	1

Client Sample ID: DUP-09-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-8

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.183**		0.0825	0.0841	1.00	0.0845	pCi/L	10/27/23 10:31	11/28/23 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:28*	*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	0.262	U	0.311	0.312	1.00	0.513	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*80.7*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	0.445	U	0.322	0.323	5.00	0.513	pCi/L		11/28/23 17:38	1

Client Sample ID: FB-3-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-9

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0530	U	0.0525	0.0527	1.00	0.0804	pCi/L	10/27/23 10:31	11/28/23 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:28*	*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	**0.981**		0.383	0.393	1.00	0.477	pCi/L	10/27/23 10:34	11/17/23 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*1*
Y Carrier	*80.7*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:10*	*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	**1.03**		0.387	0.397	5.00	0.477	pCi/L		11/28/23 17:38	1

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

Job ID: 400-245390-2
SDG: RADS

Client Sample ID: EB-4-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-10

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00337	U	0.0561	0.0561	1.00	0.119	pCi/L	10/27/23 10:31	11/28/23 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:28*	*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	-0.204	U	0.362	0.363	1.00	0.723	pCi/L	10/27/23 10:34	11/17/23 15:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:11*	*1*
Y Carrier	*82.2*		*30 - 110*	*10/27/23 10:34*	*11/17/23 15:11*	*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	-0.207	U	0.366	0.367	5.00	0.723	pCi/L		11/28/23 17:38	1

Definitions/Glossary

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

Job ID: 400-245390-2
SDG: RADS

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

Job ID: 400-245390-2
SDG: RADS

Client Sample ID: MW-U2-20231017
Date Collected: 10/17/23 12:40
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:26
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: MW-D4-20231017
Date Collected: 10/17/23 14:50
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:27
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: MW-D5-20231018
Date Collected: 10/18/23 10:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:27
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: MW-D6-20231017
Date Collected: 10/17/23 17:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:27
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Lab Chronicle

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

Job ID: 400-245390-2
SDG: RADS

Client Sample ID: MW-D7-20231018
Date Collected: 10/18/23 11:35
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:27
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: MW-D8-20231017
Date Collected: 10/17/23 13:55
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:27
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: MW-D9-20231018
Date Collected: 10/18/23 14:10
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:28
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: DUP-09-20231018
Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:28
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Lab Chronicle

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

Job ID: 400-245390-2
SDG: RADS

Client Sample ID: FB-3-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:28
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:10
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Client Sample ID: EB-4-20231018

Date Collected: 10/18/23 12:00
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245390-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:28
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:11
Total/NA	Analysis	Ra226_Ra228		1	638590	CAH	EET SL	11/28/23 17:38

Laboratory References:

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

Rad

Prep Batch: 633887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	PrecSep-21	
400-245390-2	MW-D4-20231017	Total/NA	Water	PrecSep-21	
400-245390-3	MW-D5-20231018	Total/NA	Water	PrecSep-21	
400-245390-4	MW-D6-20231017	Total/NA	Water	PrecSep-21	
400-245390-5	MW-D7-20231018	Total/NA	Water	PrecSep-21	
400-245390-6	MW-D8-20231017	Total/NA	Water	PrecSep-21	
400-245390-7	MW-D9-20231018	Total/NA	Water	PrecSep-21	
400-245390-8	DUP-09-20231018	Total/NA	Water	PrecSep-21	
400-245390-9	FB-3-20231018	Total/NA	Water	PrecSep-21	
400-245390-10	EB-4-20231018	Total/NA	Water	PrecSep-21	
MB 160-633887/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-633887/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-194192-U-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-194192-V-2-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 633888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-245390-1	MW-U2-20231017	Total/NA	Water	PrecSep_0	
400-245390-2	MW-D4-20231017	Total/NA	Water	PrecSep_0	
400-245390-3	MW-D5-20231018	Total/NA	Water	PrecSep_0	
400-245390-4	MW-D6-20231017	Total/NA	Water	PrecSep_0	
400-245390-5	MW-D7-20231018	Total/NA	Water	PrecSep_0	
400-245390-6	MW-D8-20231017	Total/NA	Water	PrecSep_0	
400-245390-7	MW-D9-20231018	Total/NA	Water	PrecSep_0	
400-245390-8	DUP-09-20231018	Total/NA	Water	PrecSep_0	
400-245390-9	FB-3-20231018	Total/NA	Water	PrecSep_0	
400-245390-10	EB-4-20231018	Total/NA	Water	PrecSep_0	
MB 160-633888/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-633888/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-194192-U-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-194192-V-2-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-633887/1-A
Matrix: Water
Analysis Batch: 638434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633887

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01244	U	0.0492	0.0492	1.00	0.0949	pCi/L	10/27/23 10:31	11/28/23 07:26	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*10/27/23 10:31*	*11/28/23 07:26*	*1*

Lab Sample ID: LCS 160-633887/2-A
Matrix: Water
Analysis Batch: 638434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633887

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.72		1.10	1.00	0.0916	pCi/L	95	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*102*		*30 - 110*

Lab Sample ID: 240-194192-U-2-A MSD
Matrix: Water
Analysis Batch: 638569

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 633887

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	0.124		11.2	10.89		1.13	1.00	0.113	pCi/L	96	60 - 140	0.15	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*92.2*		*30 - 110*

Lab Sample ID: 240-194192-V-2-A MS
Matrix: Water
Analysis Batch: 638434

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 633887

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.124		11.4	11.24		1.17	1.00	0.0878	pCi/L	97	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*89.2*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-633888/1-A
Matrix: Water
Analysis Batch: 637274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633888

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5851		0.329	0.334	1.00	0.458	pCi/L	10/27/23 10:34	11/17/23 15:00	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110	10/27/23 10:34	11/17/23 15:00	1
Y Carrier	72.5		30 - 110	10/27/23 10:34	11/17/23 15:00	1

Lab Sample ID: LCS 160-633888/2-A
Matrix: Water
Analysis Batch: 637406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633888

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.71	8.281		1.14	1.00	0.467	pCi/L	107	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		30 - 110
Y Carrier	80.4		30 - 110

Lab Sample ID: 240-194192-U-2-B MSD
Matrix: Water
Analysis Batch: 637409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 633888

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	0.618		7.64	6.866		1.03	1.00	0.520	pCi/L	82	60 - 140	0.39	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	92.2		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 240-194192-V-2-B MS
Matrix: Water
Analysis Batch: 637406

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 633888

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.618		7.77	7.723		1.18	1.00	0.713	pCi/L	91	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	89.2		30 - 110
Y Carrier	77.4		30 - 110

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Dalton Kegley	Lab PM: Whitmire, Cheyenne R	Tracking No(s): 400-245390 COC	COC No: 400-123786-29334 1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone: 678-202-9569	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: CCR App III/IV GW Monitoring Crisp Co	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	SM4500_Cl_E - Chloride	6020 - Sb,As,B,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo	7470A - Mercury	2540C - Total Dissolved Solids	4500_F_C - Fluoride	SM4500_SO4_E - Sulfate	FieldSampling - Field pH	Total Number of containers	Special Instructions/Note:
			Preservation Code			D	N	D	D	N	N	N	N		
MW-02-20231017	10/17/23	12:40	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.56
MW-04-20231017	10/17/23	14:50	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.23
MW-05-20231018	10/18/23	10:55	G	Water	N	X	X	X	X	X	X	X	X		pH = 7.31
MW-06-20231017	10/17/23	17:00	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.82
MW-07-20231018	10/18/23	11:35	G	Water	N	X	X	X	X	X	X	X	X		pH = 7.81
MW-08-20231017	10/17/23	13:55	G	Water	N	X	X	X	X	X	X	X	X		pH = 7.60
MW-09-20231018	10/18/23	14:10	G	Water	N	X	X	X	X	X	X	X	X		pH = 8.18
DUP-09-20231018	10/18/23	12:00	G	Water	N	X	X	X	X	X	X	X	X		DK
FB-3-20231018	10/18/23	12:00	G	Water	N	X	X	X	X	X	X	X	X		
EB-4-20231018	10/18/23	12:00	G	Water	N	X	X	X	X	X	X	X	X		
			DK	Water										DK	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				10/20/23 931	EECS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.5C, 0.0C, 3.0C, 0.0C, 3.0 °C IR10

Ver: 06/08/2021

Page 23 of 26

11/28/2023

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-245390-2
SDG Number: RADS

Login Number: 245390
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	2.5°C, 0.0°C, 3.0°C, 0.0°C, 3.0°C IR-10
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	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-245390-2
SDG Number: RADS

Login Number: 245390
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/24/23 02:30 PM

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

Accreditation/Certification Summary

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

Job ID: 400-245390-2
SDG: RADS

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	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
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	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
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	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
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	02-28-24
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	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	12-31-23

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

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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

400-245391-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

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Job Notes

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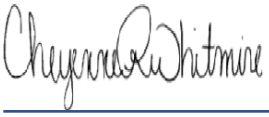
Authorization



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Revision 1

Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client Sample Results

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

Job ID: 400-245391-1

Client Sample ID: MW-U1-20231017

Date Collected: 10/17/23 10:10
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245391-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.0038**		0.0025	0.0018	mg/L		10/25/23 07:37	11/01/23 17:34	5
Boron	**0.34**		0.050	0.029	mg/L		10/25/23 07:37	11/01/23 17:34	5
Calcium	**36**		0.25	0.13	mg/L		10/25/23 07:37	11/17/23 17:39	5
Chromium	**0.0022**	**J**	0.0025	0.0021	mg/L		10/25/23 07:37	11/01/23 17:34	5
Cobalt	**0.0013**	**J**	0.0025	0.00056	mg/L		10/25/23 07:37	11/01/23 17:34	5
Lithium	ND		0.0025	0.0049	mg/L		10/25/23 07:37	11/01/23 17:34	5
Molybdenum	**0.0011**	**J**	0.010	0.00046	mg/L		10/25/23 07:37	11/01/23 17:34	5
Selenium	ND		0.0013	0.00082	mg/L		10/25/23 07:37	11/01/23 17:34	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SM 4500 F C)	**0.079**	**J**	0.10	0.070	mg/L			10/24/23 10:57	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.10**				SU			10/17/23 09:10	1

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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
RADS

JOB NUMBER

400-245391-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

my EOL

Job Notes

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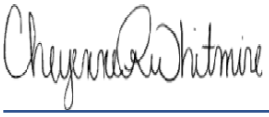

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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client Sample ID: MW-U1-20231017

Date Collected: 10/17/23 10:10
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245391-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0130	U	0.0782	0.0782	1.00	0.157	pCi/L	10/27/23 10:41	11/28/23 09:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.8*		*30 - 110*	*10/27/23 10:41*	*11/28/23 09:42*	*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	0.589	U	0.452	0.455	1.00	0.702	pCi/L	10/27/23 10:45	11/17/23 14:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.8*		*30 - 110*	*10/27/23 10:45*	*11/17/23 14:58*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/27/23 10:45*	*11/17/23 14:58*	*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	0.576	U	0.459	0.462	5.00	0.702	pCi/L		11/29/23 14:43	1

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

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

400-245391-3

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

myEOL

Job Notes

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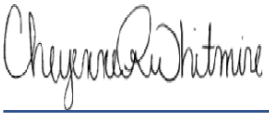

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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client Sample Results

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

Job ID: 400-245391-3

Client Sample ID: MW-U1-20231017

Date Collected: 10/17/23 10:10
Date Received: 10/20/23 09:31

Lab Sample ID: 400-245391-1

Matrix: Water

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			11/08/23 23:57	1
Chloride (SM 4500 Cl- E)	1.9	J	2.0	1.4	mg/L			11/12/23 16:45	1
Sulfate (SM 4500 SO4 E)	2.0	J	5.0	1.4	mg/L			11/12/23 12:45	1

APPENDIX C

Statistical Analysis Reports

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG

Summary Report

Constituent: Boron Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 85
ND/Trace = 74
Wells = 8
Minimum Value = 0.0042
Maximum Value = 0.34
Mean Value = 0.04916
Median Value = 0.05
Standard Deviation = 0.04051
Coefficient of Variation = 0.8241
Skewness = 4.475

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	5	0.012	0.1	0.04622	0.05	0.0273	0.5906	0.5167
MW-D5	9	5	0.016	0.1	0.04822	0.05	0.02517	0.522	0.6838
MW-D6	9	5	0.016	0.1	0.04789	0.05	0.02591	0.541	0.6593
MW-D7	9	1	0.023	0.1	0.05	0.037	0.02776	0.5552	0.9247
MW-D8	9	0	0.014	0.11	0.05056	0.042	0.02792	0.5522	0.983
MW-D9	9	5	0.0046	0.1	0.04596	0.05	0.02633	0.573	0.5204
MW-U2 (bg)	9	5	0.0085	0.1	0.04317	0.05	0.02669	0.6184	0.812
MW-U1 (bg)	22	15	0.0042	0.34	0.05412	0.05	0.06788	1.254	3.564

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Summary Report

Constituent: Calcium Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 84
ND/Trace = 0
Wells = 8
Minimum Value = 18
Maximum Value = 85
Mean Value = 46.46
Median Value = 41.5
Standard Deviation = 16.53
Coefficient of Variation = 0.3558
Skewness = 0.7107

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	0	40	50	46.78	48	3.114	0.06656	-1.099
MW-D5	9	0	35	46	41.56	42	3.779	0.09093	-0.7542
MW-D6	9	0	32	41	35.56	35	2.603	0.07322	0.9248
MW-D7	9	0	55	77	65.56	64	6.064	0.09251	0.2349
MW-D8	9	0	67	85	79	79	5.123	0.06485	-1.408
MW-D9	9	0	53	61	56.22	56	2.489	0.04427	0.403
MW-U2 (bg)	9	0	18	44	27.67	25	9.987	0.361	0.5905
MW-U1 (bg)	21	0	31	40	34.86	35	2.455	0.07044	0.1479

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Summary Report

Constituent: Chloride Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 84
ND/Trace = 20
Wells = 8
Minimum Value = 1
Maximum Value = 9.833
Mean Value = 3.703
Median Value = 2.75
Standard Deviation = 2.191
Coefficient of Variation = 0.5917
Skewness = 1.018

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	0	1.4	3.7	2.011	1.9	0.6679	0.3321	1.993
MW-D5	9	0	5.9	8.6	7.244	7.1	0.9876	0.1363	-0.09651
MW-D6	9	0	3.7	5.3	4.511	4.4	0.4781	0.106	0.007308
MW-D7	9	0	2.9	4.9	3.8	3.8	0.5454	0.1435	0.4706
MW-D8	9	0	4.6	8	6.044	6	1.104	0.1826	0.2048
MW-D9	9	0	1.6	2.4	2.044	2.1	0.2963	0.1449	-0.1857
MW-U2 (bg)	9	1	1	4.3	2.6	2.4	0.9513	0.3659	0.2088
MW-U1 (bg)	21	1	1	9.833	2.702	2	2.392	0.8855	2.643

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Summary Report

Constituent: Field pH Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 85
ND/Trace = 0
Wells = 8
Minimum Value = 5.07
Maximum Value = 11.24
Mean Value = 7.71
Median Value = 7.64
Standard Deviation = 0.7783
Coefficient of Variation = 0.101
Skewness = 1.018

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	0	7.35	8.23	7.729	7.67	0.3205	0.04147	0.5002
MW-D5	9	0	6.72	9.98	7.427	7.1	1.003	0.1351	2.091
MW-D6	9	0	7.71	8.82	8.066	7.89	0.4431	0.05494	0.9653
MW-D7	9	0	7.22	8.37	7.586	7.47	0.3484	0.04593	1.281
MW-D8	9	0	7.06	7.77	7.433	7.41	0.2207	0.0297	-0.1769
MW-D9	9	0	7.39	11.24	8.272	7.78	1.233	0.1491	1.708
MW-U2 (bg)	9	0	6.58	8.56	7.733	7.64	0.5899	0.07628	-0.2862
MW-U1 (bg)	22	0	5.07	9.43	7.596	7.755	0.9337	0.1229	-0.6548

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Summary Report

Constituent: Fluoride Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 85
ND/Trace = 58
Wells = 8
Minimum Value = 0.04
Maximum Value = 1
Mean Value = 0.1717
Median Value = 0.1
Standard Deviation = 0.2373
Coefficient of Variation = 1.382
Skewness = 3.04

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	1	0.11	1	0.2422	0.15	0.2859	1.18	2.419
MW-D5	9	8	0.073	1	0.197	0.1	0.3013	1.529	2.471
MW-D6	9	1	0.098	1	0.2264	0.11	0.2925	1.292	2.4
MW-D7	9	1	0.074	1	0.186	0.076	0.3058	1.644	2.458
MW-D8	9	7	0.072	1	0.196	0.1	0.3016	1.539	2.47
MW-D9	9	1	0.083	1	0.2001	0.087	0.301	1.504	2.442
MW-U2 (bg)	9	0	0.093	0.45	0.2026	0.13	0.1247	0.6159	0.9609
MW-U1 (bg)	22	3	0.04	0.13	0.07009	0.06	0.02294	0.3273	0.9534

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Summary Report

Constituent: Sulfate Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 84
ND/Trace = 62
Wells = 8
Minimum Value = 1.4
Maximum Value = 120
Mean Value = 9.191
Median Value = 2.6
Standard Deviation = 16.6
Coefficient of Variation = 1.806
Skewness = 4.276

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	5	1.5	2.5	2.189	2.5	0.4285	0.1958	-0.7381
MW-D5	9	2	1.4	3.8	2.5	2.5	0.691	0.2764	0.3255
MW-D6	9	0	1.8	3.4	2.478	2.2	0.6457	0.2606	0.5518
MW-D7	9	0	3.7	13	5.533	4.1	3.155	0.5701	1.755
MW-D8	9	0	17	60	23.78	19	13.73	0.5773	2.381
MW-D9	9	1	2	5.1	2.589	2.3	0.9571	0.3697	2.323
MW-U2 (bg)	9	0	17	120	40.33	29	31.49	0.7807	2.031
MW-U1 (bg)	21	2	1.4	8.867	2.737	2.5	1.538	0.5619	3.202

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Summary Report

Constituent: Total Dissolved Solids Analysis Run 12/14/2023 1:33 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/18/2023, a summary of the selected data set:

Observations = 84
ND/Trace = 0
Wells = 8
Minimum Value = 44
Maximum Value = 2100
Mean Value = 191.9
Median Value = 160
Standard Deviation = 222.7
Coefficient of Variation = 1.161
Skewness = 7.639

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D4	9	0	140	220	168.9	150	31.8	0.1883	0.5277
MW-D5	9	0	120	240	178.9	170	35.16	0.1965	0.244
MW-D6	9	0	110	2100	372.2	150	649.1	1.744	2.457
MW-D7	9	0	140	350	238.9	230	56.22	0.2354	0.3307
MW-D8	9	0	240	520	282.2	250	90.38	0.3203	2.351
MW-D9	9	0	120	210	174.4	170	27.89	0.1599	-0.4508
MW-U2 (bg)	9	0	84	240	139.8	120	60.04	0.4295	0.8004
MW-U1 (bg)	21	0	44	130	100.9	110	21.82	0.2164	-0.8533

Prediction Limit

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/14/2023, 1:31 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-D4	0.34	n/a	10/17/2023	0.065	No	31	n/a	n/a	64.52	n/a	n/a	0.001871	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D5	0.34	n/a	10/18/2023	0.065	No	31	n/a	n/a	64.52	n/a	n/a	0.001871	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D6	0.34	n/a	10/17/2023	0.068	No	31	n/a	n/a	64.52	n/a	n/a	0.001871	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D7	0.34	n/a	10/18/2023	0.09	No	31	n/a	n/a	64.52	n/a	n/a	0.001871	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D8	0.34	n/a	10/17/2023	0.11	No	31	n/a	n/a	64.52	n/a	n/a	0.001871	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D9	0.34	n/a	10/18/2023	0.055	No	31	n/a	n/a	64.52	n/a	n/a	0.001871	NP Inter (NDs) 1 of 2
Calcium (mg/L)	**MW-D4**	**42.56**	**n/a**	**10/17/2023**	**47**	**Yes**	**30**	**1111**	**390.6**	**0**	**None**	**x^2**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**MW-D5**	**42.56**	**n/a**	**10/18/2023**	**45**	**Yes**	**30**	**1111**	**390.6**	**0**	**None**	**x^2**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	MW-D6	42.56	n/a	10/17/2023	34	No	30	1111	390.6	0	None	x^2	0.002505	Param Inter 1 of 2
Calcium (mg/L)	**MW-D7**	**42.56**	**n/a**	**10/18/2023**	**70**	**Yes**	**30**	**1111**	**390.6**	**0**	**None**	**x^2**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**MW-D8**	**42.56**	**n/a**	**10/17/2023**	**83**	**Yes**	**30**	**1111**	**390.6**	**0**	**None**	**x^2**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**MW-D9**	**42.56**	**n/a**	**10/18/2023**	**57**	**Yes**	**30**	**1111**	**390.6**	**0**	**None**	**x^2**	**0.002505**	**Param Inter 1 of 2**
Chloride (mg/L)	MW-D4	9.833	n/a	10/17/2023	1.9J	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D5	9.833	n/a	10/18/2023	7	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D6	9.833	n/a	10/17/2023	4.7	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D7	9.833	n/a	10/18/2023	4	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D8	9.833	n/a	10/17/2023	6.4	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D9	9.833	n/a	10/18/2023	2.3	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D4	9.01	6.066	10/17/2023	8.23	No	31	58.99	12.41	0	None	x^2	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D5	9.01	6.066	10/18/2023	7.31	No	31	58.99	12.41	0	None	x^2	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D6	9.01	6.066	10/17/2023	8.82	No	31	58.99	12.41	0	None	x^2	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D7	9.01	6.066	10/18/2023	7.81	No	31	58.99	12.41	0	None	x^2	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D8	9.01	6.066	10/17/2023	7.6	No	31	58.99	12.41	0	None	x^2	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D9	9.01	6.066	10/18/2023	8.18	No	31	58.99	12.41	0	None	x^2	0.001253	Param Inter 1 of 2
Fluoride (mg/L)	MW-D4	0.45	n/a	10/17/2023	0.13	No	31	n/a	n/a	9.677	n/a	n/a	0.001871	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D5	0.45	n/a	10/18/2023	0.1ND	No	31	n/a	n/a	9.677	n/a	n/a	0.001871	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D6	0.45	n/a	10/17/2023	0.11	No	31	n/a	n/a	9.677	n/a	n/a	0.001871	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D7	0.45	n/a	10/18/2023	0.075J	No	31	n/a	n/a	9.677	n/a	n/a	0.001871	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D8	0.45	n/a	10/17/2023	0.1ND	No	31	n/a	n/a	9.677	n/a	n/a	0.001871	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D9	0.45	n/a	10/18/2023	0.085J	No	31	n/a	n/a	9.677	n/a	n/a	0.001871	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D4	120	n/a	10/17/2023	2.5ND	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D5	120	n/a	10/18/2023	2.1J	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D6	120	n/a	10/17/2023	2.4J	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D7	120	n/a	10/18/2023	4.1J	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D8	120	n/a	10/17/2023	60	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D9	120	n/a	10/18/2023	2.2J	No	30	n/a	n/a	6.667	n/a	n/a	0.00197	NP Inter (normality) 1 of 2
Total Dissolved Solids...	MW-D4	187.1	n/a	10/17/2023	150	No	30	4.77	0.5294	0	None	x^(1/3)	0.002505	Param Inter 1 of 2
Total Dissolved Solids...	MW-D5	187.1	n/a	10/18/2023	170	No	30	4.77	0.5294	0	None	x^(1/3)	0.002505	Param Inter 1 of 2
Total Dissolved Solids...	MW-D6	187.1	n/a	10/17/2023	120	No	30	4.77	0.5294	0	None	x^(1/3)	0.002505	Param Inter 1 of 2
Total Dissolved Solids...	**MW-D7**	**187.1**	**n/a**	**10/18/2023**	**220**	**Yes**	**30**	**4.77**	**0.5294**	**0**	**None**	**x^(1/3)**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids...	**MW-D8**	**187.1**	**n/a**	**10/17/2023**	**260**	**Yes**	**30**	**4.77**	**0.5294**	**0**	**None**	**x^(1/3)**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids...	MW-D9	187.1	n/a	10/18/2023	160	No	30	4.77	0.5294	0	None	x^(1/3)	0.002505	Param Inter 1 of 2

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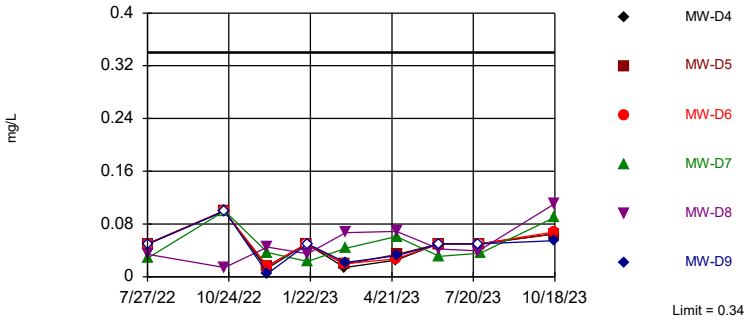
Hollow symbols indicate censored values.

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 31 background values. 64.52% NDs. Annual per-constituent alpha = 0.01117. Individual comparison alpha = 0.001871 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 12/14/2023 1:28 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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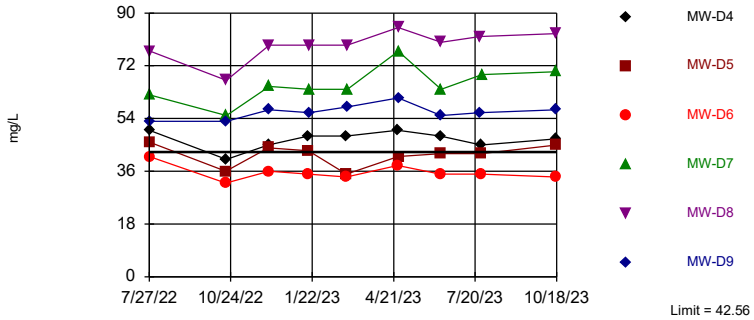
Exceeds Limit: MW-D4, MW-D5, MW-D7, MW-D8, MW-D9

Prediction Limit

Interwell Parametric



Background Data Summary (based on square transformation): Mean=1111, Std. Dev.=390.6, n=30. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9278, critical = 0.9. Kappa = 1.794 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 6 points to limit.

Constituent: Calcium Analysis Run 12/14/2023 1:29 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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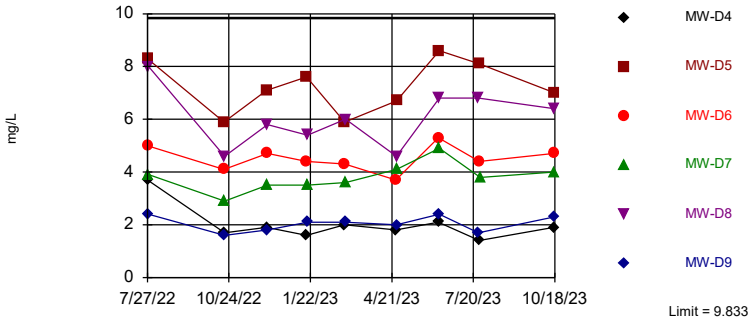
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 6.667% NDs. Annual per-constituent alpha = 0.01176. Individual comparison alpha = 0.00197 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Chloride Analysis Run 12/14/2023 1:29 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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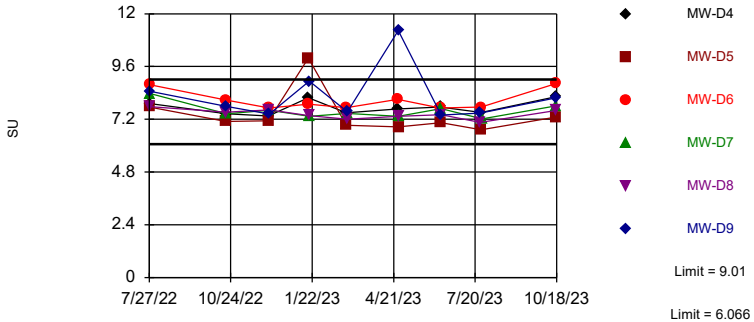
Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary (based on square transformation): Mean=58.99, Std. Dev.=12.41, n=31. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9066, critical = 0.902. Kappa = 1.789 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001253. Comparing 6 points to limit.

Constituent: Field pH Analysis Run 12/14/2023 1:29 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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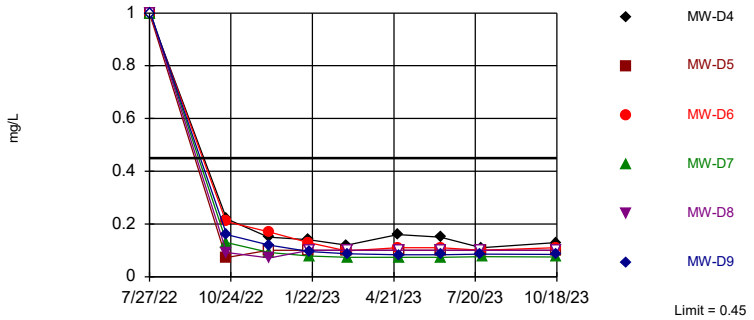
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 9.677% NDs. Annual per-constituent alpha = 0.01117. Individual comparison alpha = 0.001871 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Fluoride Analysis Run 12/14/2023 1:29 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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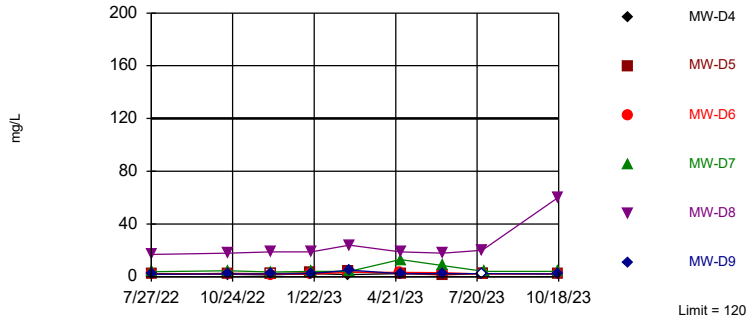
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 6.667% NDs. Annual per-constituent alpha = 0.01176. Individual comparison alpha = 0.00197 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate Analysis Run 12/14/2023 1:29 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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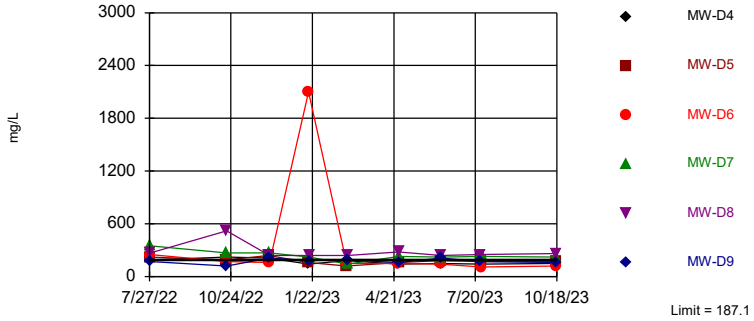
Exceeds Limit: MW-D7, MW-D8

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.77, Std. Dev.=0.5294, n=30. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.9. Kappa = 1.794 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 6 points to limit.

Constituent: Total Dissolved Solids Analysis Run 12/14/2023 1:29 PM View: Sanitas through October 202
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-U2 (bg)	MW-D4	MW-D5	MW-D6	MW-D9	MW-D7	MW-D8
2/28/2017	<0.05							
3/27/2017	<0.05							
4/24/2017	<0.05							
5/22/2017	<0.05							
6/19/2017	<0.05							
7/17/2017	<0.05							
8/14/2017	<0.05							
9/13/2017	<0.05							
3/22/2018	0.0077							
6/5/2018	<0.05							
11/29/2018	<0.05							
4/29/2019	<0.05							
10/23/2019	0.0051 (J)							
4/27/2020	0.0042 (J)							
11/19/2020	<0.05							
4/26/2021	<0.05 (^)							
10/26/2021	0.007 (J)							
4/26/2022	0.0067 (J)							
7/27/2022		<0.05	<0.05	<0.05	<0.05			
7/28/2022						<0.05	0.029 (J)	0.034 (J)
10/19/2022	<0.1			<0.1	<0.1			
10/20/2022		<0.1	<0.1			<0.1	<0.1	0.014 (J)
12/5/2022			0.012 (JB)	0.016 (JB)				
12/6/2022		0.0085 (JB)			0.016 (JB)	0.0046 (JB)	0.037 (JB)	0.045 (JB)
1/18/2023	<0.05 (^)	<0.05	<0.05	<0.05	<0.05			
1/19/2023						<0.05	0.023 (J)	0.035 (J)
3/1/2023		0.015 (J)	0.014 (J)	0.019 (JB)	0.02 (J)			
3/2/2023						0.022 (J)	0.043 (J)	0.067 (B)
4/26/2023	0.02 (JB)	0.027 (JB)	0.025 (JB)		0.027 (JB)			
4/27/2023				0.034 (JB)		0.032 (JB)	0.061 (B)	0.069 (B)
6/12/2023		<0.05	<0.05		<0.05			
6/13/2023				<0.05		<0.05	0.031 (J)	0.042 (J)
7/26/2023						<0.05		0.039 (J)
7/27/2023		<0.05	<0.05	<0.05	<0.05			
7/28/2023							0.036 (J)	
10/17/2023	0.34	0.038 (J)	0.065		0.068			0.11
10/18/2023				0.065		0.055	0.09	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8	MW-D9	MW-U2 (bg)	MW-U1 (bg)
2/28/2017								34
3/27/2017								32
4/24/2017								40
5/22/2017								36
6/19/2017								38
7/17/2017								37 (B)
8/14/2017								33
9/13/2017								35
6/5/2018								33
11/29/2018								32
4/29/2019								34
10/23/2019								38
4/27/2020								31
11/19/2020								36
4/26/2021								33
10/26/2021								36
4/26/2022								34 (B)
7/27/2022	50	46	41				39	
7/28/2022				62	77	53		
10/19/2022		36	32					31
10/20/2022	40			55	67	53	26	
12/5/2022	45	44						
12/6/2022			36	65	79	57	38	
1/18/2023	48 (B)	43 (B)	35 (B)				44 (B)	36 (B)
1/19/2023				64	79	56		
3/1/2023	48	35	34				20	
3/2/2023				64	79	58		
4/26/2023	50		38				20	37
4/27/2023		41		77	85	61		
6/12/2023	48		35				19	
6/13/2023		42		64	80	55		
7/26/2023					82	56		
7/27/2023	45	42	35				18	
7/28/2023				69				
10/17/2023	47		34		83		25	36
10/18/2023		45		70		57		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D5	MW-D6	MW-U2 (bg)	MW-D4	MW-D8	MW-D9	MW-D7
2/28/2017	2.2							
3/27/2017	2.1							
4/24/2017	1.8 (J)							
5/22/2017	2.6							
6/19/2017	1.9 (J)							
7/17/2017	2.2							
8/14/2017	2							
9/13/2017	2.2							
6/5/2018	1.8 (J)							
11/29/2018	1.7 (J)							
4/29/2019	1.4 (J)							
10/23/2019	9.8 (D)							
4/27/2020	2.4							
11/19/2020	2.4							
4/26/2021	9.833 (F1D)							
10/26/2021	1.7 (J)							
4/26/2022	1.9 (J)							
7/27/2022		8.3	5	2.4	3.7			
7/28/2022						8	2.4	3.9
10/19/2022	<2	5.9	4.1					
10/20/2022				2.5	1.7 (J)	4.6	1.6 (J)	2.9
12/5/2022		7.1			1.9 (J)			
12/6/2022			4.7	3.3		5.8	1.8 (J)	3.5
1/18/2023	2.2	7.6	4.4	4.3	1.6 (J)			
1/19/2023						5.4	2.1	3.5
3/1/2023		5.9	4.3	2.2	2			
3/2/2023						6	2.1	3.6
4/26/2023	1.7 (J)		3.7	3.4	1.8 (J)			
4/27/2023		6.7				4.6	2	4.1
6/12/2023			5.3	2.3	2.1			
6/13/2023		8.6				6.8	2.4	4.9
7/26/2023						6.8	1.7 (J)	
7/27/2023		8.1	4.4	<2	1.4 (J)			
7/28/2023								3.8
10/17/2023	1.9 (J)		4.7	2	1.9 (J)	6.4		
10/18/2023		7					2.3	4

Prediction Limit

Constituent: Field pH (SU) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8	MW-D9	MW-U2 (bg)	MW-U1 (bg)
2/28/2017								7.74
3/27/2017								7.78
4/24/2017								7.45
5/22/2017								7.77
6/19/2017								5.07
7/17/2017								6.37
8/14/2017								7.45
9/13/2017								7.63
3/22/2018								7.87
6/5/2018								6.74
11/29/2018								7.72
4/29/2019								7.84
10/23/2019								7.54
4/27/2020								6.05
11/19/2020								7.47
4/26/2021								7.91
10/26/2021								9.28
4/26/2022								8.1
7/27/2022	7.92	7.76	8.78				8.55	
7/28/2022				8.37	7.77	8.47		
10/19/2022		7.1	8.08					7.98
10/20/2022	7.45			7.45	7.53	7.78	7.77	
12/5/2022	7.35	7.13						
12/6/2022			7.71	7.61	7.62	7.44	7.64	
1/18/2023	8.18	9.98	7.89				7.64	9.43
1/19/2023				7.33	7.37	8.93		
3/1/2023	7.49	6.93	7.73				6.58	
3/2/2023				7.47	7.21	7.54		
4/26/2023	7.67		8.11				7.57	7.82
4/27/2023		6.86		7.33	7.33	11.24		
6/12/2023	7.76		7.72				7.79	
6/13/2023		7.05		7.68	7.41	7.39		
7/26/2023					7.06	7.48		
7/27/2023	7.51	6.72	7.75				7.5	
7/28/2023				7.22				
10/17/2023	8.23		8.82		7.6		8.56	8.1
10/18/2023		7.31		7.81		8.18		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-U2 (bg)	MW-D4	MW-D5	MW-D6	MW-D9	MW-D7	MW-D8
2/28/2017	0.06 (J)							
3/27/2017	0.04 (J)							
4/24/2017	0.06 (J)							
5/22/2017	0.06 (J)							
6/19/2017	0.06 (J)							
7/17/2017	0.06 (J)							
8/14/2017	0.05 (J)							
9/13/2017	0.058 (J)							
3/22/2018	0.07 (J)							
6/5/2018	0.06 (J)							
11/29/2018	0.04 (J)							
4/29/2019	<0.1							
10/23/2019	0.05 (JB)							
4/27/2020	0.05 (J)							
11/19/2020	0.07 (J)							
4/26/2021	0.1 (B)							
10/26/2021	<0.1							
4/26/2022	0.07 (J)							
7/27/2022		0.45 (J)	<1 (H)	<1 (H)	<1 (H)			
7/28/2022						<1 (H)	<1 (H)	<1 (H)
10/19/2022	0.13			0.073 (J)	0.21			
10/20/2022		0.32	0.22			0.16	0.13	0.092 (J)
12/5/2022			0.15	<0.1				
12/6/2022		0.3			0.17	0.12	0.092 (J)	0.072 (J)
1/18/2023	0.075 (J)	0.18	0.14	<0.1	0.13			
1/19/2023						0.096 (J)	0.079 (J)	<0.1
3/1/2023		0.13	0.12	<0.1	0.098 (J)			
3/2/2023						0.087 (J)	0.074 (J)	<0.1
4/26/2023	<0.1	0.11	0.16		0.11			
4/27/2023				<0.1		0.083 (J)	0.074 (J)	<0.1
6/12/2023		0.12	0.15		0.11			
6/13/2023				<0.1		0.084 (J)	0.074 (J)	<0.1
7/26/2023						0.086 (J)		<0.1
7/27/2023		0.093 (J)	0.11	<0.1	0.1			
7/28/2023							0.076 (J)	
10/17/2023	0.079 (J)	0.12	0.13		0.11			<0.1
10/18/2023				<0.1		0.085 (J)	0.075 (J)	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D5	MW-D6	MW-U2 (bg)	MW-D4	MW-D8	MW-D9	MW-D7
2/28/2017	2.8 (J)							
3/27/2017	2.4 (J)							
4/24/2017	1.4 (J)							
5/22/2017	1.5 (J)							
6/19/2017	1.8 (J)							
7/17/2017	2.8 (J)							
8/14/2017	2.6 (J)							
9/13/2017	3.1 (J)							
6/5/2018	2.9 (J)							
11/29/2018	2 (J)							
4/29/2019	<5							
10/23/2019	2.8 (J)							
4/27/2020	2.6 (J)							
11/19/2020	2.3 (J)							
4/26/2021	8.867 (D)							
10/26/2021	<5							
4/26/2022	4.3 (J)							
7/27/2022		1.9 (J)	2 (J)	50 (F1)	2.3 (J)			
7/28/2022						17	2 (J)	3.8 (J)
10/19/2022	2.4 (J)	2.7 (J)	2.2 (J)					
10/20/2022				35	1.8 (J)	18	2.1 (J)	4.5 (J)
12/5/2022		<5			1.5 (J)			
12/6/2022			1.8 (J)	29		19	2.2 (J)	3.7 (J)
1/18/2023	1.9 (J)	3.1 (J)	1.9 (J)	120	<5			
1/19/2023						19	2.4 (J)	4.1 (J)
3/1/2023		3.8 (J)	3.4 (J)	38	1.6 (J)			
3/2/2023						24	5.1	4.1 (J)
4/26/2023	2 (J)		3.4 (J)	28	<5			
4/27/2023		2.5 (J)				19	2.3 (J)	13
6/12/2023			3.1 (J)	27	<5			
6/13/2023		1.4 (J)				18	2.5 (J)	8.4
7/26/2023						20	<5	
7/27/2023		<5	2.1 (J)	19 (F1)	<5			
7/28/2023								4.1 (J)
10/17/2023	2 (J)		2.4 (J)	17	<5	60		
10/18/2023		2.1 (J)					2.2 (J)	4.1 (J)

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/14/2023 1:31 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8	MW-D9	MW-U2 (bg)	MW-U1 (bg)
2/28/2017								80
3/27/2017								120
4/24/2017								44
5/22/2017								100
6/19/2017								92
7/17/2017								78
8/14/2017								86
9/13/2017								110
6/5/2018								110
11/29/2018								66
4/29/2019								120
10/23/2019								120
4/27/2020								120
11/19/2020								130
4/26/2021								98
10/26/2021								86
4/26/2022								98
7/27/2022	190	220	250				230	
7/28/2022				350	270	170		
10/19/2022		190	170					130
10/20/2022	220			270	520	120	130	
12/5/2022	210	240						
12/6/2022			160	270	240	210	170	
1/18/2023	140	160	2100				240	110
1/19/2023				220	240	180		
3/1/2023	180	120	150				120	
3/2/2023				140	240	190		
4/26/2023	140		150				84	110
4/27/2023		160		230	280	160		
6/12/2023	150		140				96	
6/13/2023		180		220	240	210		
7/26/2023					250	170		
7/27/2023	140	170	110				90	
7/28/2023				230				
10/17/2023	150		120		260		98	110 (H)
10/18/2023		170		220		160		

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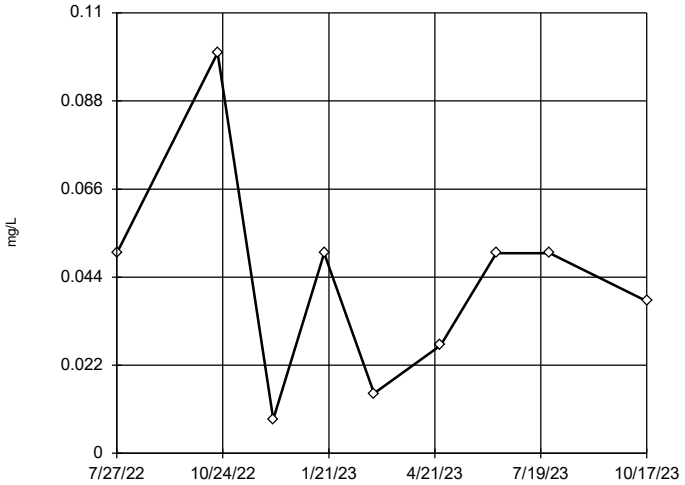
Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2155, low cutoff = -0.009455, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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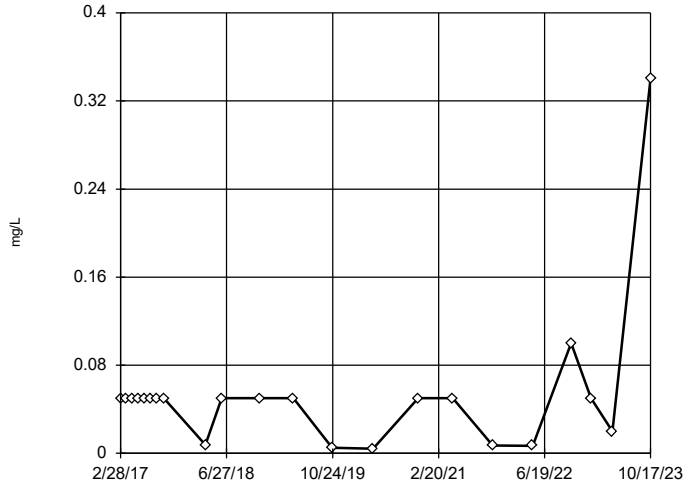
Tukey's Outlier Screening

MW-U1 (bg)



n = 22

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

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.27, low cutoff = 0.0001897, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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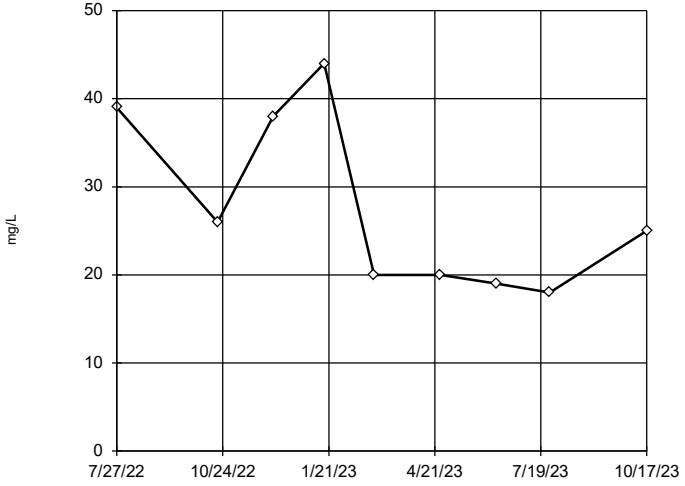
Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 296.5, low cutoff = 2.531, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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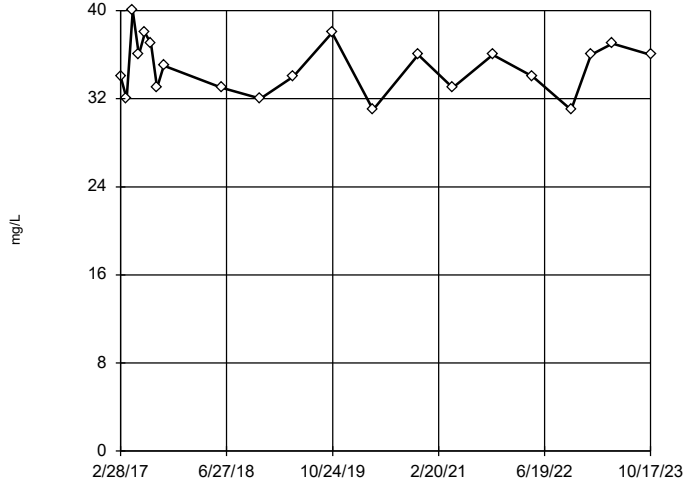
Tukey's Outlier Screening

MW-U1 (bg)



n = 21

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

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 48.46, low cutoff = 23.86, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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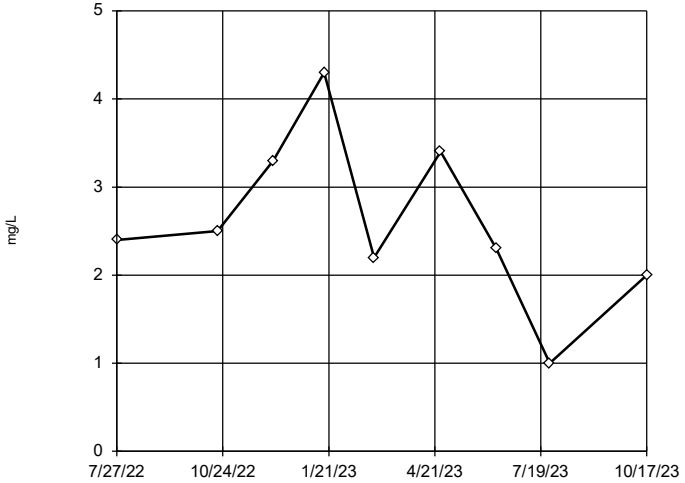
Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 7.1, low cutoff = -1.65, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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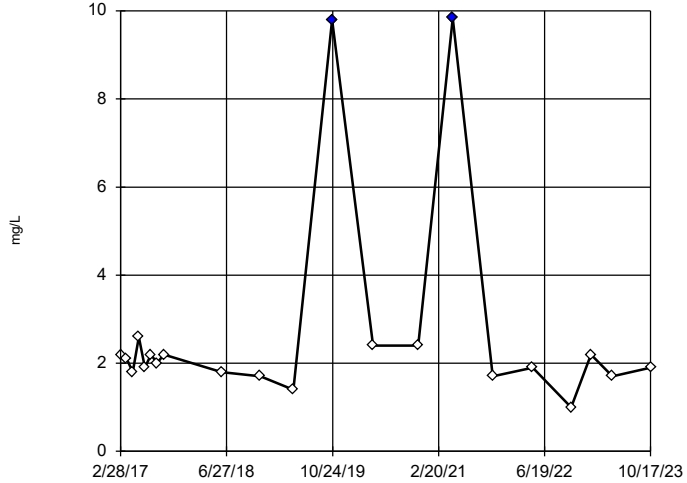
Tukey's Outlier Screening

MW-U1 (bg)



n = 21

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 5.208, low cutoff = 0.7718, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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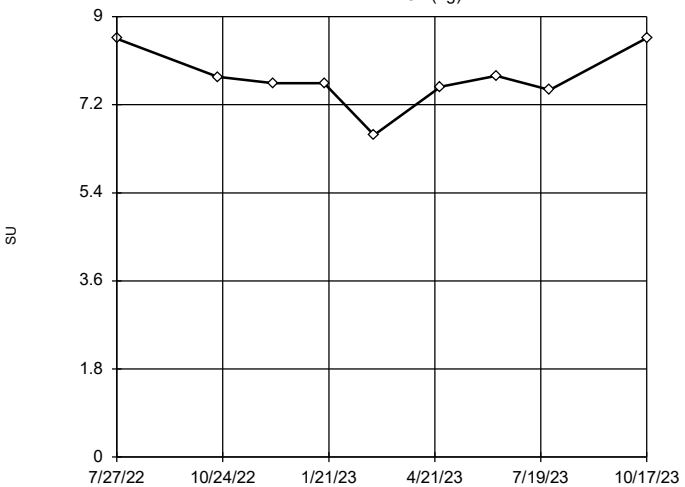
Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 9.861, low cutoff = 5.141, based on IQR multiplier of 3.

Constituent: Field pH Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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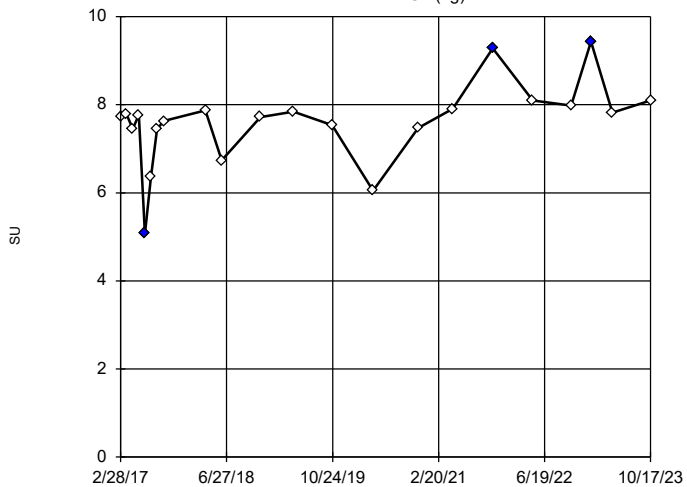
Tukey's Outlier Screening

MW-U1 (bg)



n = 22

Outliers are drawn as solid.
Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 9.273, low cutoff = 5.713, based on IQR multiplier of 3.

Constituent: Field pH Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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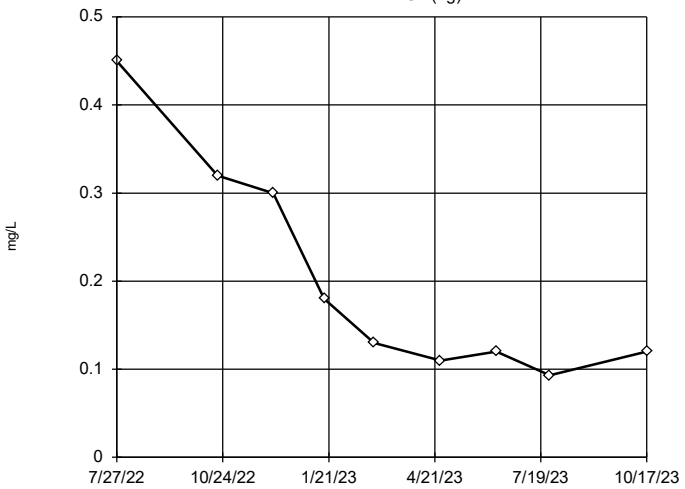
Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.077, low cutoff = 0.005858, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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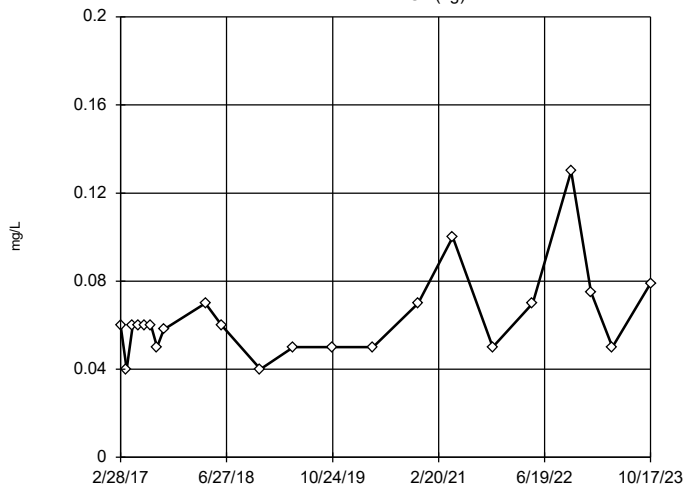
Tukey's Outlier Screening

MW-U1 (bg)



n = 22

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

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1921, low cutoff = 0.01822, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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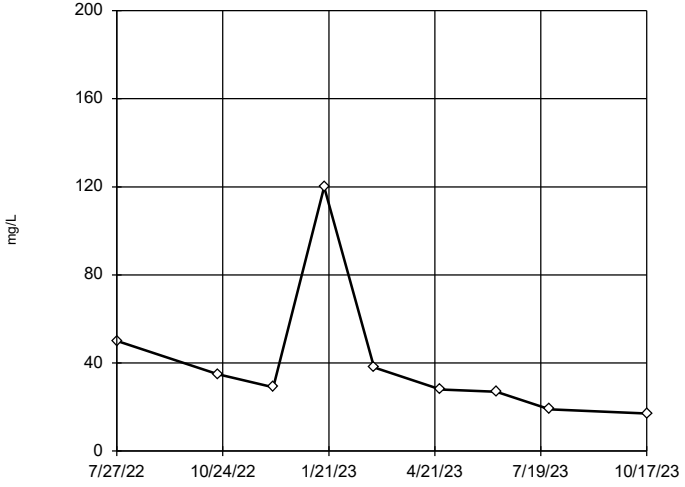
Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 310.7, low cutoff = 3.178, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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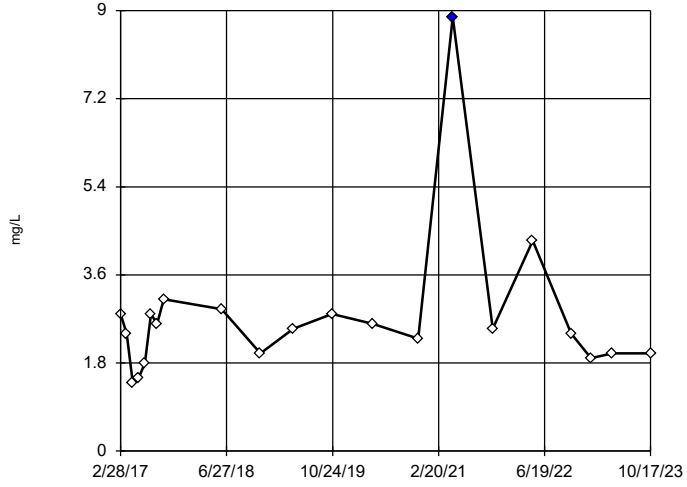
Tukey's Outlier Screening

MW-U1 (bg)



n = 21

Outlier is drawn as solid. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

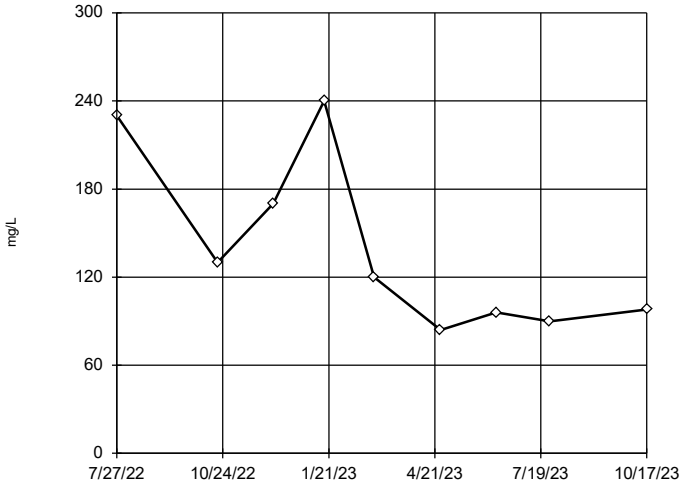
High cutoff = 7.683, low cutoff = 0.7289, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 2023

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Tukey's Outlier Screening

MW-U2 (bg)



n = 9

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

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1904, low cutoff = 9.655, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 202

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

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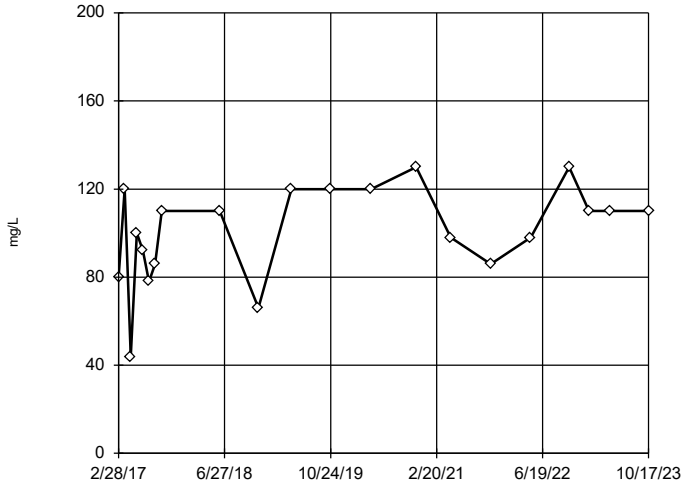
Tukey's Outlier Screening

MW-U1 (bg)



n = 21

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

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 188.2, low cutoff = -116.7, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids Analysis Run 12/14/2023 3:27 PM View: Sanitas through October 202

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/14/2023, 3:29 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Boron (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	0.04317	0.02669	sqrt(x)	ShapiroWilk
Boron (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	22	0.05412	0.06788	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	27.67	9.987	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	21	34.86	2.455	x^(1/3)	ShapiroWilk
Chloride (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	2.6	0.9513	normal	ShapiroWilk
Chloride (mg/L)	**MW-U1 (bg)**	**Yes**	**9.8,9.833**	**10/23/201...**	**NP**	**NaN**	**21**	**2.702**	**2.392**	**ln(x)**	**ShapiroWilk**
Field pH (SU)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	7.733	0.5899	x^2	ShapiroWilk
Field pH (SU)	**MW-U1 (bg)**	**Yes**	**5.07,9.28...**	**6/19/2017...**	**NP**	**NaN**	**22**	**7.596**	**0.9337**	**x^2**	**ShapiroWilk**
Fluoride (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	0.2026	0.1247	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	22	0.06327	0.02018	ln(x)	ShapiroWilk
Sulfate (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	40.33	31.49	ln(x)	ShapiroWilk
Sulfate (mg/L)	**MW-U1 (bg)**	**Yes**	**8.867**	**4/26/2021**	**NP**	**NaN**	**21**	**2.737**	**1.538**	**ln(x)**	**ShapiroWilk**
Total Dissolved Solids (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	9	139.8	60.04	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	21	100.9	21.82	x^2	ShapiroWilk